

The Society of Trauma Nurses (STN) Position Statement on Qualifications and Competencies for the Trauma Program Manager

Introduction

Traumatic injury is the leading cause of death for people ages 1 to 44 years in the United States, and injury represents 8% of total global deaths annually (U.S. Centers for Disease Control and Prevention (CDC), 2021; Rossiter 2022). Trauma systems provide an inclusive, integrated structure designed to provide access to, and the delivery of, appropriate and optimal care to injured patients, across the continuum of care, which includes preventative, prehospital, acute, definitive, rehabilitative, and support services for reintegration into society. One of the most important roles within the trauma system is that of the trauma program manager (TPM). STN, the recognized professional society serving TPMs, provides education and resources for TPMs and other members of the trauma team, to support the delivery of optimal and equitable trauma care to all people.

Role of the Trauma Program Manager Defined

The STN defines a TPM as, “a registered nurse with knowledge and clinical experience in the care of injured patients who, in collaboration with the trauma medical director, coordinates the interdisciplinary services and organizational systems necessary for optimal care of the injured patient, and oversees the educational, clinical, research, administrative, financial, performance improvement, and outreach activities of a trauma program.”

Society of Trauma Nurses-Endorsed Statements

- Trauma Program Managers (TPMs) play an essential role in the delivery of optimal and equitable trauma care to all people.

- Registered Nurses (RNs) are the professionals best qualified to serve as TPMs by virtue of their education, training, and experience, and whenever possible, the role of the TPM should be assigned to an RN.
- TPMs should hold a minimum of a Bachelor of Science in Nursing; however, a Master of Science Degree is preferred.
- Advanced Trauma Care for Nurses (ATCN), Optimal Trauma Center Organization & Management Course (Optimal) and Trauma Outcomes and Performance Improvement Course (TOPIC) courses, developed and disseminated by STN, offer essential clinical and administrative education and should be completed by every TPM.
- Attainment and maintenance of the Trauma Certified Registered Nurse (TCRN®) certification, through the Board of Certification for Emergency Nursing (BCEN) is one important measure of competency for TPMs.
- Participation in national nursing organizations, attendance at national meetings, and collaboration with organizations serving physicians and interdisciplinary professionals to communicate current evidenced-based care for implementation is essential to the TPM role.

TPM Role: Knowledge, Skills, and Competencies

TPMs are leaders in their institutions who advocate for the highest level of quality trauma care across the continuum. They create an environment that fosters leadership and interdisciplinary collaboration in the delivery of trauma care.

In 2018, a commissioned comprehensive study, *The STN Trauma Program Manager Role Delineation Study* (Castle, 2018), catalogued the skills, knowledge, and tasks necessary to the TPM profession. Data from this study, conducted by Castle Worldwide, outlined the specific tasks required for the TPM role and collected information about the knowledge and skills required to function in the role.

The study documented the clinical, administrative, interpersonal, and analytical skillset required to succeed in the TPM role. To accomplish this, a panel of subject matter experts, represented by a variety of practice settings and geographic regions, assembled for a modified Delphi study to discuss the role of the TPM. Subsequently, a large sample of TPMs was surveyed to validate the work of the job analysis panel. Based on the ratings gathered from the representative sample of professionals, the weightings for the domains and tasks in the framework were computed. The *STN Trauma Program Manager Role Delineation Study* identified Six Domains and tasks unique to TPMs as outlined in Table 1.

Table 1

The Six Domains of the Trauma Program Manager Role and Associated Tasks

TPM ROLE DOMAIN	TPM ROLE DOMAIN TASKS
DOMAIN 1: A CONTINUUM OF TRAUMA CARE (25%)	<ul style="list-style-type: none"> • Task 1: Maintain knowledge of current standards by performing initial and ongoing gap analysis for trauma center accreditation, designation, and verification requirements to optimize patient care throughout the continuum. • Task 2: Transcend normal departmental hierarchies to achieve compliance with regulatory requirements by using effective and respectful communications. • Task 3: Facilitate interprofessional trauma education by using internal and external resources to maintain adherence to accreditation, designation, and verification requirements. • Task 4: Oversee and maintain all aspects of the trauma PIPS program consistent with accreditation, designation, and verification requirements. • Task 5: Supervise data collection, coding, scoring, validation (IRR), reporting, and analysis to ensure that the data drive all aspects of the trauma program (e.g., clinical care, research, benchmarking, PIPS, finances). • Task 6: Interface with all levels of management to communicate effectively (e.g., verbal, electronic, written) all trauma-related items, (e.g., regulatory, community, patient safety, financial, strategic planning, annual reports). • Task 7: Reduce injury rates by aligning with local, regional, and national injury prevention and community outreach initiatives to improve population-based health.
DOMAIN 2: PROFESSIONAL ISSUES (28%)	<ul style="list-style-type: none"> • Task 1: Collaborate with internal departments across the continuum of care to maintain accreditation, designation, and verification through the implementation and maintenance of trauma center criteria and regulations to promote optimal care of the injured patient. • Task 2: Establish a functional PIPS program by using the principles of TOPIC as well as American College of Surgeons (ACS), state, and

institutional recommendations to identify and resolve deviation from standards of trauma care to reduce mortality and morbidity.

- Task 3: Advocate for lifelong learning for all trauma care providers and program staff by providing resources for internal and external evidence-based education to promote improvement in trauma patient care and outcomes.
- Task 4: Facilitate interprofessional collaboration and communication within the trauma program, center, and system to maximize a patient's functional outcome.
- Task 5: Foster and maintain relationships with prehospital agencies and referring facilities to improve quality of trauma care through effective feedback.
- Task 6: Contribute to the development and implementation of an emergency preparedness plan by participating in institutional and regional training activities to respond to potential threats (e.g., mass casualty, active shooter, natural disasters).
- Task 7: Support trauma staff across the continuum by identifying critical incident stress management and ethics resources to promote resiliency and prevent compassion fatigue.
- Task 8: Facilitate interprofessional trauma education by utilizing internal and external resources and programs (e.g., ATLS, ATCN, TNCC, TCAR, PCAR) to maintain adherence to accreditation, designation, and verification requirements.
- Task 9: Participate in local, regional, and national professional organizations and forums to promote and advocate for trauma patients, trauma systems, and trauma care provider professional development.

**DOMAIN 3: HUMAN RESOURCES
(18%)**

- Task 1: Lead trauma center staff through direct interaction and communication by using institutional resources to enhance and maintain operational functions.
- Task 2: Measure (annually and ad hoc) overall performance of trauma program staff by using hospital- and department-specific tools to maintain compliance with job descriptions.
- Task 3: Develop and monitor the orientation process for all trauma administrative and program staff to attain and maintain all organizational and trauma accreditation, designation, and verification requirements and job-specific functions.
- Task 4: Collaborate with departments across the continuum of trauma care to develop and maintain trauma-specific components of orientation and ongoing competencies.
- Task 5: Optimize communication with staff to promote continued growth and professional development.
- Task 6: Collaborate with departments and divisions across the continuum of trauma care to facilitate adherence to hospital standards, required licensure, certifications, education, and other metrics to meet trauma center requirements.

**DOMAIN 4: MANAGEMENT OF
PHYSICAL RESOURCES, FINANCIAL
RESOURCES, AND MEDICAL
PROFESSIONALS (11%)**

- Task 1: Facilitate the evaluation of medical equipment and other physical resource needs of the trauma system for standard and innovative technologies annually and through issues identified using the PI process to maintain optimal trauma care.

	<ul style="list-style-type: none"> • Task 2: Evaluate financial needs and make appropriate allocation adjustments to the trauma budget to maintain fiscal viability of the trauma program. • Task 3: Explore external funding resources to maximize opportunities in the areas of research, education, and prevention to increase awareness and enhance care. • Task 4: Develop and encourage interprofessional collaboration (e.g., physicians, nurses, EMS providers, referring facilities) by using leadership and management skills, institutional policies and procedures, and good communication to establish a functional trauma program.
<p>DOMAIN 5: PUBLIC RELATIONS AND MARKETING (9%)</p>	<ul style="list-style-type: none"> • Task 1: Recognize and participate in trauma center marketing and public relations opportunities through electronic media and publications to demonstrate the added value of trauma center care (e.g., research, prevention, innovations, annual reports, education, patient stories). • Task 2: Foster relationships with hospital marketing and public relations staff by collaborating to develop strategies for promoting the trauma program both internally and externally (e.g., public service announcements, social messaging, media events, expert interviews) to increase awareness of the public health benefits of organized trauma care. • Task 3: Develop a personal skill set through collaboration with the marketing department to appropriately represent the trauma center at public relations and marketing events and other open forums. • Task 4: Offer resources to area trauma program staff and providers by way of job shadowing, consultation, and follow-up to promote collegiality and strengthen the patient care relationship.
<p>DOMAIN 6: PROJECT MANAGEMENT (9%)</p>	<ul style="list-style-type: none"> • Task 1: Develop and execute performance improvement projects through monitoring data trends, outcomes, and other metrics to improve trauma care across the continuum. • Task 2: Use the trauma registry and other data sources to align with local, regional, and national injury prevention partners for prioritizing initiatives to improve population-based health. • Task 3: Serve as a liaison to local, regional, state, and federal government entities to gain support of and collaboration with the trauma system.

The TPM Role: Designed with Nurses in Mind

While the role of the TPM has evolved significantly since its inception in the 1980s, its alignment with the education, skills, and qualifications demonstrated by registered nurses has remained constant. The trauma nurse coordinator (TNC), the pre-cursor to the TPM role, was first documented as an occupational role in 1987 (Committee on Trauma of the American College of

Surgeons [ACS], 1983). TNCs were identified as playing a pivotal role in the success or failure of trauma centers seeking verification.

The STN collaborated with the ACS Committee on Trauma (COT) to develop the initial requirements for the TPM role in 1992 (Mitchell, Thal, & Wolferth, 1994). In 1999, ACS sought assistance from STN to define the role of the TPM, and incorporated STN-recommended provisions in *Resources for Optimal Care of the Injured Patient* standards (ACS 1999). The ACS Trauma Performance Improvement Reference Manual (ACS 2002) identifies the TPM position specifically as Trauma Nurse Coordinator/Program Manager. In trauma centers across the nation, trauma nurses have a longstanding history fulfilling the TPM role, working collaboratively with the Trauma Medical Director (TMD). Forty percent of U.S. States have implemented statutes or regulations that require the TPM role to be filled by a registered nurse (STN, 2023).

Nursing Education Provides and Prepares Nurses to Serve as Trauma Program Managers

Trauma program management requires a unique set of competencies, qualifications, and skills. Registered nurses are uniquely well suited to serve as TPMs, and trauma programs are best served when registered nurses hold the TPM role. Trauma nurses possess a specialized body of clinical knowledge including mechanism of injury, injury patterns, and correlating evidence-based treatment interventions, as well as expertise in performance improvement, patient safety, and injury prevention initiatives. Additionally, trauma nurses are adept at collaboration across interprofessional teams, compliance with regulations and standards, and the development and implementation of guidelines, policies, and procedures, driven by research and evidence-based practice.

The knowledge and skills most essential for success in the TPM role, as measured in the *Trauma Program Manager Role Delineation Study*, conform to the competencies identified in *The Essentials: Core Competencies for Professional Nursing Education (The Essentials)*, published by the

American Association of Colleges of Nursing (AACN) in 2021, which provides the educational framework for-universities and colleges preparing nurses for practice.

AACN's *Essentials* domains prioritize nursing education, scholarship, and practical training that allows nurses to effectively apply and disseminate nursing knowledge, collect and analyze data, integrate guidelines into practice, interpret and comply with clinical and administrative standards, and use their clinical judgment and decision-making skills to solve problems. Nursing education fosters compassion, empathy, and a deep understanding of the importance of person/family-centered care and the broader public health considerations that impact care delivery. Quality and safety principles are core values of nursing training and practice, as are systems-based practice and the formation of interprofessional partnerships.

Maintaining Competency in the TPM Role

Formal nursing education and training help prepare candidates to serve in the TPM role. However, a commitment to lifelong learning, trauma-focused nursing certification, and professional networking are also vital to obtaining and maintaining key TPM clinical and professional competencies. Advanced Trauma Care for Nurses (ATCN), Optimal Trauma Center Organization & Management Course (Optimal) and Trauma Outcomes and Performance Improvement Course (TOPIC) courses, developed and disseminated by STN, offer essential clinical and administrative education, and should be completed by every TPM (STN, 2023).

ATCN is an advanced course designed for the registered nurse interested in increasing his/her knowledge in management of the injured patient. The ATCN course, taught concurrently with the Advanced Trauma Life Support (ATLS) course operated by ACS, has been operational for more than 25 years and is currently offered globally.

The TOPIC course is designed for all members of the trauma system team who participate in the ongoing assessment, evaluation and improvement of trauma care. STN developed the TOPIC course

in response to the need for education and better understanding of the Performance Improvement process in trauma care. TOPIC focuses on the ongoing assessment of the continuum of trauma care with a structured review of process and discussions of strategies to monitor trauma patient outcomes.

The Optimal course is taught by physicians and nurses with the goal of enhancing a trauma center's system of care and improving patient outcomes. This course is designed to assist participants in the creation of strategies, processes, and operations to support trauma center systems, based upon their own environments, and is geared for TPMs, medical directors, and other trauma program team members from both mature trauma centers and those preparing for their inaugural verification or designation.

Attainment and maintenance of the TCRN[®] certification, through the Board of Certification for Emergency Nursing (BCEN) is one important measure of competency for TPMs. The TCRN[®] certification, accredited by the American Board of Specialty Nursing Certification (ABSNC) is currently held by more than 7,000 trauma nursing professionals across the U.S. Beginning January 1, 2024, ANCC Magnet status will be limited to board certifications that are accredited, such as the TCRN[®] certification. Evidence demonstrates that a culture that promotes nursing certification advances safety (fewer adverse incidents and errors in patient care), improves organizational culture, improves processes of care, and improves quality of care (improved patient outcomes and higher patient satisfaction rates) (Board of Certification for Emergency Nursing, 2020).

In addition to formal education, training, certification, and continuing education, participation in national nursing organizations, attendance at national meetings, and collaboration with organizations serving physicians and interdisciplinary professionals to communicate current evidenced-based care for implementation is essential to the TPM role.

Conclusion

STN promotes optimal trauma care to all people and TPMs play an essential role in trauma systems. By virtue of their education, training, and qualifications, registered nurses are uniquely qualified and best suited to fulfill the TPM role. TPMs should, at a minimum, hold a bachelor's degree in nursing, have completed trauma-specific clinical and administrative courses, such as those offered by STN, obtain TCRN® certification, participate in national nursing associations, and attend national meetings to learn and share research and evidence-based practices in the delivery of optimal and equitable trauma care.

ADOPTED BY THE STN BOARD OF DIRECTORS ON MARCH 2, 2023

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STN POSITION ON TPM QUALIFICATIONS AND COMPETENCIES

Appendix A: Role Delineation Report, Trauma Program Manager



**Role Delineation Report
Trauma Program Manager
March 2018**



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INTRODUCTION

On September 29–30 and October 1, 2017, the Society of Trauma Nurses (STN) assembled a panel of trauma nurses to review and revise the tasks, knowledge, and skills necessary to function as a Trauma Program Manager (TPM).

A major function of STN is to define the competency and professionalism needed to be a successful TPM. STN aims to provide a framework of specific criteria designed to ensure competence in this profession.

The development of the framework of tasks, knowledge, and skills followed the steps required of a high-quality credentialing or licensing program to establish logically sound and legally defensible procedures for developing examinations and training programs. These principles and procedures are outlined in federal regulations (*Uniform Guidelines on Employee Selection Procedures*) and manuals such as *Standards for Educational and Psychological Testing* (published by the American Educational Research Association, 2014). Castle Worldwide, Inc., adheres to these standards in developing task, knowledge, and skill frameworks, including the framework of the TPM.

Before a content-valid framework is developed, the knowledge and skills necessary for competent practice in the profession must be determined. The process for identifying these areas is a role delineation (or job analysis), which then serves as a blueprint for content development.

The primary reason for conducting a job analysis is to ensure that a framework is content-valid. Content validity is the most commonly applied and accepted validation strategy used in establishing training programs today. In psychometric terms, validation is the way a training developer documents that the competency to be taught in a training program is important for the competent practitioner to know. A content-valid framework, then, establishes the knowledge and skills required to function as a competent practitioner in the field.

Thus, the job analysis is an integral part of ensuring that a framework is content-valid and that the aspects of the profession covered by the training reflect the tasks performed in practice settings. For both broad content areas and tasks, the job analysis identifies their importance and frequency. These ratings play a crucial role in determining the weights of the tasks in the framework.

The job analysis study for the STN TPM program consisted of the following three phases, which are the focus of this report:

1. Initial Development and Evaluation. The job analysis panel identified the tasks, knowledge, and skills essential to the performance of a TPM.
2. Validation Study. A sample of trauma nurses well-qualified to serve as TPMs reviewed and validated the work of the job analysis panel.
3. Task and Domain Weights. Based on the ratings gathered from the representative sample of professionals, the weightings for the domains and tasks in the framework were computed.

PHASE I: INITIAL DEVELOPMENT AND EVALUATION

The first steps in analyzing the role of a TPM were the listing of tasks performed and the identification of the knowledge and skills associated with each task. The panel of subject matter experts assembled by STN met for a modified Delphi study in September/October of 2017 to discuss the role of the TPM. The panel members represented a variety of practice settings and geographic regions. Appendix A presents the meeting agenda. The target audience description is presented in Appendix B. Qualifications of job analysis panelists are on file at STN headquarters in Lexington, Kentucky, as is noted in Appendix C.

The following steps were undertaken to complete Phase I:

- A. The panel determined that the profession could be divided into six areas, or performance domains.
 - 1. Continuum of Trauma Care
 - 2. Professional Issues
 - 3. Human Resources
 - 4. Management of Physical Resources, Financial Resources, and Medical Professionals
 - 5. Public Relations and Marketing
 - 6. Project Management

- B. Next, the panel wrote, reviewed, and edited the tasks, and then clustered the tasks into performance domains. The panel subsequently generated a list of knowledge and skills required to perform each task. Appendix D contains the complete list of domains, tasks, and knowledge statements.

Based on the work of the job analysis panel, an electronic survey was developed and distributed to individuals with expertise regarding the role of the TPM. Appendix E presents the task validation survey. The results of the survey are the focus of Phase II.

PHASE II: VALIDATION STUDY

I. Questionnaire Design and Distribution

Using the domains and tasks identified by the job analysis panel, Castle distributed the questionnaires to trauma professionals with expertise in trauma program management to evaluate, validate, and provide feedback on the panel's task lists. The questionnaires also solicited biographical information from the respondents to ensure a representative response and completion by appropriately qualified individuals.

Of the 6,955 task questionnaires distributed, 1,028 were opened, and 622 usable responses (about 9%) were submitted to Castle. However, not all individuals responded to every question; therefore, the total number of responses per question varies.

II. Characteristics of the Task Validation Sample

Complete results from the survey are presented in Appendix F.

III. Evaluation of Tasks

Survey Respondents' Evaluations

The task validation survey respondents were asked to evaluate each task, rating each on importance and frequency. A 5-point scale (1 to 5) was used for both importance and frequency, with a 5 representing the highest rating. The scale anchors are listed below as a reference.

Task Validation Importance Ratings

Participants were asked to rate each task in terms of importance, or the degree to which the task is essential to the job performance of a minimally competent TPM. The rating anchors are provided below.

How important is this task in the role of a minimally competent Trauma Program Manager?

- 1 ***Of No Importance.*** This task is of no importance to the job performance of the minimally competent professional.
- 2 ***Of Little Importance.*** This task is of little importance to the job performance of the minimally competent professional.
- 3 ***Moderately Important.*** This task is moderately important to the job performance of the minimally competent professional.
- 4 ***Substantially Important.*** This task is substantially important to the job performance of the minimally competent professional.
- 5 ***Extremely Important.*** This task is extremely important to the job performance of the minimally competent professional.

Task Validation Frequency Ratings

The frequency of the task refers to the time that the minimally competent TPM spends performing duties within each task. Respondents were asked to estimate the amount of time spent performing duties associated with each task by selecting the number of the description below that best exemplifies the rating for each task.

How frequently does a minimally competent Trauma Program Manager use this task?

- 1 ***Never.*** The minimally competent professional never uses this task.
- 2 ***Rarely.*** The minimally competent professional rarely uses this task.
- 3 ***Sometimes.*** The minimally competent professional sometimes uses this task.
- 4 ***Often.*** The minimally competent professional often uses this task.
- 5 ***Repetitively.*** The minimally competent professional repetitively uses this task.

Table 1. Means of Importance and Frequency Measures of Domains and Tasks

Domain	Task	Importance	Frequency
1	1	4.6747	4.2832
	2	4.4759	4.1884
	3	4.3317	4.0405
	4	4.6759	4.5186
	5	4.3682	4.1518
	6	4.3832	4.1714
	7	3.8655	3.5707
2	1	4.5433	4.2820
	2	4.5885	4.3501
	3	4.1302	3.8804
	4	4.3014	4.0326
	5	4.2446	3.9117
	6	3.9083	3.4542
	7	3.7920	3.1676
	8	4.2022	3.8852
	9	3.9909	3.6636
3	1	4.1058	3.8780
	2	3.9851	3.7268
	3	4.0909	3.6252
	4	4.0302	3.6219
	5	4.1483	3.9053
	6	4.2981	3.9527
4	1	3.8385	3.4119
	2	4.0809	3.5532
	3	3.5656	3.0501
	4	4.4269	4.1420
5	1	3.6047	3.1829
	2	3.6485	3.1926
	3	3.5789	3.0990
	4	3.5676	3.0907
6	1	4.4632	4.2035
	2	4.1864	3.8835
	3	4.0484	3.6054

Note: The domains and tasks are only enumerated here. The text will be included in the content blueprint (i.e., content sampling plan) presented in Appendix D.

Appendix F contains additional details regarding the ratings of importance and frequency for each task statement.

IV. Reliability Analysis of Performance Domain Scales

The reliability of the scales was assessed to determine how consistently the tasks measured the domain of interest. Reliability refers to the degree to which tests or surveys are free from measurement error. Consider a scale measuring an individual's weight that registered a substantially different weight with each use for the same person. With this inconsistency (i.e., unreliability), it would be impossible to determine an accurate weight. This analogy can be extended to the importance and frequency ratings of each task. It is important to understand the consistency of the data along these dimensions to draw defensible conclusions.

Reliability was measured with the intraclass correlation for internal consistency (Cronbach's alpha) by using the respondents' ratings of importance and frequency for each task. This index calculates the extent to which each task rating within each domain consistently measures what other tasks within that domain also measure. Reliability coefficients range from 0 to 1 and should be above 0.7 to be judged as adequate. Reliability values below 0.7 indicate an unacceptable amount of measurement error.

The overall reliability of the ratings of importance and frequency was 0.9732, which indicates that these ratings can be used to compute the task weights. Appendix G has additional detail regarding the reliability computations.

V. Conclusion

The results of the survey validate the work of the job analysis panel. This conclusion means that the tasks and knowledge developed by the panel constitute an accurate definition of the work of a TPM.

PHASE III: TASK AND DOMAIN WEIGHTS

The final phase of the study is the development of task weights that identify the relative criticality of each task. Task weights are developed by combining the overall evaluations of importance and frequency by using the formula *Importance*Frequency* and defining the result as *Risk*. Risk is then used to compute the weights of each task by dividing the task risk by the total of all task risks.

These weights may be interpreted as percentages, which means the first domain will contain about 25% of the training content. The weights are normalized such that they add to 1.

Table 2 illustrates the computation of the task and domain weights. Domains and tasks are enumerated as they were in the previous table.

Table 2. Task and Domain Weights

Domain	Task	Importance	Frequency	Risk	Task Weight	Domain Weight
1	1	4.6747	4.2832	20.0226	0.0386	0.2461
	2	4.4759	4.1884	18.7468	0.0362	
	3	4.3317	4.0405	17.5021	0.0338	
	4	4.6759	4.5186	21.1282	0.0407	
	5	4.3682	4.1518	18.1359	0.0350	
	6	4.3832	4.1714	18.2842	0.0353	
	7	3.8655	3.5707	13.8027	0.0266	
2	1	4.5433	4.2820	19.4542	0.0375	0.2813
	2	4.5885	4.3501	19.9606	0.0385	
	3	4.1302	3.8804	16.0269	0.0309	
	4	4.3014	4.0326	17.3460	0.0335	
	5	4.2446	3.9117	16.6037	0.0320	
	6	3.9083	3.4542	13.5000	0.0260	
	7	3.7920	3.1676	12.0114	0.0232	
	8	4.2022	3.8852	16.3265	0.0315	
	9	3.9909	3.6636	14.6210	0.0282	
3	1	4.1058	3.8780	15.9221	0.0307	0.1801
	2	3.9851	3.7268	14.8515	0.0286	
	3	4.0909	3.6252	14.8305	0.0286	
	4	4.0302	3.6219	14.5973	0.0282	
	5	4.1483	3.9053	16.2003	0.0312	
	6	4.2981	3.9527	16.9889	0.0328	
4	1	3.8385	3.4119	13.0964	0.0253	0.1096
	2	4.0809	3.5532	14.5003	0.0280	
	3	3.5656	3.0501	10.8755	0.0210	
	4	4.4269	4.1420	18.3365	0.0354	
5	1	3.6047	3.1829	11.4732	0.0221	0.0872
	2	3.6485	3.1926	11.6484	0.0225	
	3	3.5789	3.0990	11.0913	0.0214	
	4	3.5676	3.0907	11.0264	0.0213	
6	1	4.4632	4.2035	18.7609	0.0362	0.0957
	2	4.1864	3.8835	16.2579	0.0314	
	3	4.0484	3.6054	14.5960	0.0281	
Total				518.5263	1.0000	1.0000

Note: The domain weight is the sum of the associated task weights.

The complete list of domains, tasks, and knowledge with weights is available in Appendix D and Table 3.

Table 3. STN TPM Classification System and Content Blueprint

Description	Classification	Content Weight
Domain 1: Continuum of Trauma Care	010000	0.2461
Task 1: Maintain knowledge of current standards by performing initial and ongoing gap analysis for trauma center accreditation, designation, and verification requirements to optimize patient care throughout the continuum.	010100	0.0386
Knowledge of:		
a. Gap analysis	010101	
b. Standards of trauma accreditation, designation, and verification	010102	
c. Trauma education	010103	
d. Injury prevention	010104	
e. Trauma outreach	010105	
f. Trauma equipment	010106	
g. Trauma resources	010107	
h. Practice management guidelines	010108	
i. Performance improvement and patient safety (PIPS)	010109	
j. Evidence-based resources	010110	
Skill in:		
k. Interpreting standards and data	010111	
l. Performing a comparison of the current trauma program against trauma center requirements	010112	
m. Recommending relevant trauma education	010113	
n. Teaching trauma education	010114	
o. Prioritizing injury prevention activities	010115	
p. Overseeing injury prevention activities	010116	
q. Evaluating effectiveness of trauma prevention	010117	
r. Strategically planning trauma outreach activities	010118	
s. Prioritizing outreach activities	010119	
t. Evaluating effectiveness of trauma outreach	010120	
u. Integrating practice management guidelines into current practice	010121	
v. Reviewing care provided to trauma patients	010122	
w. Identifying performance issues with care provided	010123	
x. Analyzing the effects of performance issues on outcomes	010124	
Task 2: Transcend normal departmental hierarchies to achieve compliance with regulatory requirements by using effective and respectful communications.	010200	0.0362
Knowledge of:		
a. Department structure and organizational chain of command	010201	

Description	Classification	Content Weight
b. Regulatory requirements	010202	
Skill in:		
c. Communicating effectively via a variety of platforms (e.g., verbal, electronic, written)	010203	
d. Networking across hospital departments	010204	
e. Serving as the trauma liaison	010205	
f. Applying regulatory requirements	010206	
Task 3: Facilitate interprofessional trauma education by using internal and external resources to maintain adherence to accreditation, designation, and verification requirements.	010300	0.0338
Knowledge of:		
a. Advance care of the trauma patient	010301	
b. Department-specific procedures	010302	
c. Emerging and current trends in trauma care	010303	
d. Available trauma educational resources	010304	
Skill in:		
e. Facilitating or delivering job-specific training (e.g., ATLS, ATCN, TNCC, ENPC)	010305	
f. Analyzing clinical care and decision-making	010306	
g. Adhering to accreditation, designation, and verification requirements	010307	
h. Maintaining knowledge of current evidence-based trauma care	010308	
Task 4: Oversee and maintain all aspects of the trauma PIPS program consistent with accreditation, designation, and verification requirements.	010400	0.0407
Knowledge of:		
a. Data analysis	010401	
b. Advanced computer applications (e.g., trauma registry, other databases)	010402	
c. TOPIC principles and hospital-specific quality process improvement (PI) methodologies	010403	
d. Accreditation, designation, and verification requirements	010404	
e. Risk-adjusted benchmarking	010405	
f. Trauma care standards	010406	
g. Trauma clinical care processes and outcomes (internal and external metrics)	010407	

Description	Classification	Content Weight
Skill in:		
h. Applying principles from the TOPIC course to develop a PI program	010408	
i. Reporting and presenting accurate and meaningful data	010409	
j. Coordinating trauma performance projects	010410	
k. Prioritizing data and information	010411	
l. Motivating peers for collaboration and task completion	010412	
Task 5: Supervise data collection, coding, scoring, validation (IRR), reporting, and analysis to ensure that the data drive all aspects of the trauma program (e.g., clinical care, research, benchmarking, PIPS, finances).	010500	0.0350
Knowledge of:		
a. Scoring systems (e.g., AIS, ISS, TRISS)	010501	
b. Database management	010502	
c. ICD-10 coding	010503	
d. Validation	010504	
e. Reporting	010505	
f. Analysis	010506	
g. Hardware and trauma registry software and vendor resources	010507	
h. Local and national trauma data standards (e.g., state, NTDB, TQIP)	010508	
i. Data importing and exporting processes	010509	
j. PIPS process	010510	
k. Trauma program funding and budget	010511	
Skill in:		
l. Obtaining and applying knowledge from trauma-related courses	010512	
m. Maintaining secure data	010513	
n. Using trauma data in research	010514	
o. Using the trauma registry to direct the trauma program	010515	
p. Supervising trauma registry staff	010516	
q. Validating trauma registry data	010517	
r. Maintaining accurate and current trauma data dashboards	010518	
s. Applying departmental needs to operating budgets	010519	
Task 6: Interface with all levels of management to communicate effectively (e.g., verbal, electronic, written) all trauma-related items, (e.g., regulatory, community, patient safety, financial, strategic planning, annual reports).	010600	0.0353

Description	Classification	Content Weight
Knowledge of:		
a. Accreditation, designation, and verification requirements	010601	
b. Creation of an annual report	010602	
c. Strategic planning process	010603	
d. Patient safety	010604	
Skill in:		
e. Navigating across the continuum of care and up the organizational chain of command	010605	
f. Formulating appropriate verbal, electronic, and written communication	010606	
g. Incorporating fiscal responsibility into the trauma program	010607	
h. Promoting the trauma center in public forums	010608	
i. Developing accurate reports from a trauma registry	010609	
j. Delivering relevant information based on audience level	010610	
Task 7: Reduce injury rates by aligning with local, regional, and national injury prevention and community outreach initiatives to improve population-based health.	010700	0.0266
Knowledge of:		
a. Evidence-based injury prevention programs and how to develop hospital-specific programming	010701	
b. Drivers of injury prevention development (e.g., trauma registry, public health data)	010702	
c. Public health as it relates to the injured patient and population health	010703	
d. Model trauma system plan	010704	
e. Local, regional, and national injury prevention resources	010705	
Skill in:		
f. Applying knowledge in injury prevention planning	010706	
g. Participating in the development of injury prevention activities and programs	010707	
h. Creating literacy-appropriate educational materials	010708	
i. Evaluating the effectiveness of injury prevention endeavors	010709	
j. Injury prevention planning (e.g., data, development, collaboration, delivery)	010710	
Domain 2: Professional Issues	020000	0.2813
Task 1: Collaborate with internal departments across the continuum of care to maintain accreditation, designation, and verification through the implementation and maintenance of trauma center criteria and regulations to promote optimal care of the injured patient.	020100	0.0375

Description	Classification	Content Weight
Knowledge of:		
a. Accreditation, designation, and verification requirements	020101	
b. Continuum of trauma care	020102	
c. Hospital organizational structure	020103	
d. Trauma systems	020104	
Skill in:		
e. Interpreting and translating trauma center criteria, standards, and regulations	020105	
f. Utilizing research and conducting evidence-based practice	020106	
g. Developing clinical practice guidelines, internal policies, and procedures	020107	
h. Collaborating with facilities of varying resources	020108	
i. Developing and presenting presentations	020109	
Task 2: Establish a functional PIPS program by using the principles of TOPIC as well as American College of Surgeons (ACS), state, and institutional recommendations to identify and resolve deviations from standards of trauma care to reduce mortality and morbidity.	020200	0.0385
Knowledge of:		
a. Trauma standards of care	020201	
b. PI methodologies	020202	
c. Benchmarking (Trauma Quality Improvement Program [TQIP])	020203	
d. Quality metrics	020204	
e. Hospital, state, and federal privacy laws, and peer review protection	020205	
Skill in:		
f. Demonstrating a systematic method to review performance issues that results in timely and complete loop closure	020206	
g. Managing data to support PIPS	020207	
h. Applying TOPIC principles	020208	
i. Using queries for report writing	020209	
j. Interpreting data sets	020210	
k. Analyzing data	020211	
l. Making presentations	020212	
m. Communicating technical results to different levels of audiences	020213	
n. Managing meetings (e.g., coordination, documentation)	020214	

Description	Classification	Content Weight
Task 3: Advocate for lifelong learning for all trauma care providers and program staff by providing resources for internal and external evidence-based education to promote improvement in trauma patient care and outcomes.	020300	0.0309
Knowledge of:		
a. Trauma education resources	020301	
b. Current evidence-based practice	020302	
c. Current PI data	020303	
d. Gap analysis	020304	
e. Project management	020305	
Skill in:		
f. Promoting and participating in evidence-based education	020306	
g. Preparing and presenting evidence-based education	020307	
h. Tracking emerging trends in trauma care	020308	
i. Engaging staff	020309	
j. Interpreting PI data	020310	
k. Developing curriculum	020311	
l. Facilitating adult education and learning	020312	
m. Analyzing data	020313	
Task 4: Facilitate interprofessional collaboration and communication within the trauma program, center, and system to maximize a patient's functional outcome.	020400	0.0335
Knowledge of:		
a. Transgenerational and interdisciplinary communication requirements and techniques	020401	
b. Trauma program, center, and system partners, including principles of organizational structure	020402	
c. Local, regional, and national healthcare trends to identify barriers and opportunities to care	020403	
Skill in:		
d. Collaborating with interprofessional groups	020404	
e. Communicating complex concepts and data to multiple audiences	020405	
f. Facilitating crucial conversations and confrontations	020406	
Task 5: Foster and maintain relationships with prehospital agencies and referring facilities to improve quality of trauma care through effective feedback.	020500	0.0320

Description	Classification	Content Weight
Knowledge of:		
a. Effective communication (e.g., verbal and written communications, site reviews, case presentations, education)	020501	
b. PIPS	020502	
c. Hospital policy and state and federal privacy laws	020503	
d. PI methodologies	020504	
Skill in:		
e. Fostering professional relationships	020505	
f. Generating stakeholder engagement	020506	
g. Presenting in public forums	020507	
h. Planning and coordinating events with prehospital and referring facilities	020508	
i. Conducting loop closure	020509	
Task 6: Contribute to the development and implementation of an emergency preparedness plan by participating in institutional and regional training activities to respond to potential threats (e.g., mass casualty, active shooter, natural disasters).	020600	0.0260
Knowledge of:		
a. Internal and external emergency preparedness plans	020601	
b. Essential contacts within institutions and trauma systems	020602	
c. Local, regional, and national resources	020603	
d. After-action reporting	020604	
e. Incident command systems (internal and external)	020605	
f. Hospital and system emergency preparedness plans	020606	
g. Hospital capacity and surge	020607	
h. Emergency management	020608	
Skill in:		
i. Leading in a highly complex and stressful environment	020609	
j. Planning and executing exercises	020610	
k. Solving problems	020611	
l. Managing critical incident stress	020612	
m. Planning and participating in institutional and regional training activities	020613	
n. Collaborating with content experts	020614	
Task 7: Support trauma staff across the continuum by identifying critical incident stress management and ethics resources to promote resiliency and prevent compassion fatigue.	020700	0.0232

Description	Classification	Content Weight
Knowledge of:		
a. Critical incident stress management resources	020701	
b. Compassion fatigue	020702	
c. Available ethics consultants	020703	
Skill in:		
d. Recognizing signs of compassion fatigue	020704	
e. Fostering resilience, mental and physical health, and well-being of self and staff	020705	
f. Developing a sustainable culture of work-life balance	020706	
g. Equipping employees with healthy coping skills and the ability to identify risk behaviors	020707	
Task 8: Facilitate interprofessional trauma education by utilizing internal and external resources and programs (e.g., ATLS, ATCN, TNCC, TCAR, PCAR) to maintain adherence to accreditation, designation, and verification requirements.	020800	0.0315
Knowledge of:		
a. Internal and external educational resources	020801	
b. Accreditation, designation, and verification educational requirements	020802	
Skill in:		
c. Facilitating education programs	020803	
d. Role-modeling professional presence	020804	
e. Participating in professional development	020805	
Task 9: Participate in local, regional, and national professional organizations and forums to promote and advocate for trauma patients, trauma systems, and trauma care provider professional development.	020900	0.0282
Knowledge of:		
a. Professional organizations and associations	020901	
b. Methods of advocating for trauma patients, systems, and care providers	020902	
c. Available resources for funding advocacy	020903	
d. State and national trauma systems	020904	
e. Professional decorum	020905	
Skill in:		
f. Promoting advocacy	020906	
g. Advancing the provision of optimal trauma care	020907	

Description	Classification	Content Weight
h. Communicating complex concepts and data to multiple audiences	020908	
i. Demonstrating leadership with groups of professionals over whom the leader has no authority	020909	
Domain 3: Human Resources	030000	0.1801
Task 1: Lead trauma center staff through direct interaction and communication by using institutional resources to enhance and maintain operational functions.	030100	0.0307
Knowledge of:		
a. Institutional resources	030101	
b. Operational functions	030102	
c. Talent acquisition and management	030103	
d. Organizational policies and procedures	030104	
e. Goal development	030105	
Skill in:		
f. Communicating effectively across generational and cultural groups	030106	
g. Building and leading groups and teams	030107	
h. Resolving conflict	030108	
i. Leading with various techniques (e.g., visionary, transformation, motivational)	030109	
j. Facilitating crucial conversations	030110	
Task 2: Measure (annually and ad hoc) overall performance of trauma program staff by using hospital- and department-specific tools to maintain compliance with job descriptions.	030200	0.0286
Knowledge of:		
a. Hospital and departmental performance evaluation tools and human resources policies	030201	
b. Job description development	030202	
c. Organizational performance management process	030203	
Skill in:		
d. Evaluating job performance	030204	
e. Communicating effectively	030205	
f. Coaching and mentoring for success	030206	

Description	Classification	Content Weight
Task 3: Develop and monitor the orientation process for all trauma administrative and program staff to attain and maintain all organizational and trauma accreditation, designation, and verification requirements and job-specific functions.	030300	0.0286
Knowledge of:		
a. Accreditation, designation, and verification requirements	030301	
b. Orientation processes	030302	
c. Performance management processes	030303	
d. Emotional intelligence	030304	
Skill in:		
e. Developing competency assessments as required	030305	
f. Evaluating proficiency (e.g., novice, proficient, expert)	030306	
g. Developing and coordinating educational sessions	030307	
Task 4: Collaborate with departments across the continuum of trauma care to develop and maintain trauma-specific components of orientation and ongoing competencies.	030400	0.0282
Knowledge of:		
a. Hospital continuum of care	030401	
b. Current trauma care trends	030402	
c. Evidence-based practice	030403	
d. Current trauma education offerings	030404	
e. Principles of adult education and adult learning	030405	
Skill in:		
f. Developing orientation (e.g., unit-based, hospital staff, trauma staff) and competencies	030406	
g. Developing curriculum	030407	
h. Communicating effectively across generational and cultural groups	030408	
i. Collaborating with multiple departments	030409	
j. Creating and delivering institutional guidelines	030410	
k. Teaching and presenting	030411	
Task 5: Optimize communication with staff to promote continued growth and professional development.	030500	0.0312
Knowledge of:		
a. Professional development	030501	
b. Staff rewards and recognition	030502	
c. Transparent communications	030503	

Description	Classification	Content Weight
d. Talent management	030504	
Skill in:		
e. Building teams	030505	
f. Planning tactics and strategy	030506	
g. Developing strategic initiatives	030507	
h. Setting goals for programs	030508	
i. Retaining staff	030509	
j. Educating staff	030510	
k. Communicating with intergenerational and multicultural groups	030511	
Task 6: Collaborate with departments and divisions across the continuum of trauma care to facilitate adherence to hospital standards, required licensure, certifications, education, and other metrics to meet trauma center requirements.	030600	0.0328
Knowledge of:		
a. Hospital standards	030601	
b. Regulatory standards	030602	
c. Licensure, certification, and education requirements	030603	
d. Quality metrics to meet accreditation, designation, and verification	030604	
Skill in:		
e. Collaborating with others	030605	
f. Communicating effectively	030606	
g. Organizing data	030607	
h. Negotiating with and influencing people	030608	
i. Measuring and reporting compliance standards	030609	
j. Developing and reporting gap analysis	030610	
k. Developing action plans against gaps	030611	
l. Developing monitoring strategies for implemented actions	030612	
Domain 4: Management of Physical Resources, Financial Resources, and Medical Professionals	040000	0.1096
Task 1: Facilitate the evaluation of medical equipment and other physical resource needs of the trauma system for standard and innovative technologies annually and through issues identified using the PI process to maintain optimal trauma care.	040100	0.0253
Knowledge of:		
a. Emerging trends in trauma care (e.g., guidelines, innovations, technology)	040101	

Description	Classification	Content Weight
b. Procurement (e.g., medical equipment, office space, computers, printers, software licenses)	040102	
c. Accreditation, designation, and verification requirements	040103	
d. Trauma registry	040104	
e. Fiscal management principles	040105	
f. Local and regional injury data	040106	
g. Geographic and regional variations in the system and the impact on resources	040107	
Skill in:		
h. Interpreting data	040108	
i. Utilizing resources	040109	
j. Negotiating to advocate for program physical resources	040110	
k. Planning and executing budgets to obtain physical resources	040111	
l. Creating registry queries	040112	
m. Analyzing and interpreting critical data	040113	
n. Writing proposals	040114	
o. Developing business plans	040115	
Task 2: Evaluate financial needs and make appropriate allocation adjustments to the trauma budget to maintain fiscal viability of the trauma program.	040200	0.0280
Knowledge of:		
a. Financial management principles	040201	
b. Fiscal history and future projections	040202	
c. Current operating margin	040203	
d. Revenue flow (e.g., activations fees, reimbursement, documentation, coding)	040204	
e. Variability of resources	040205	
f. Opening and closing programs	040206	
g. Local, regional, and national trends (e.g., trauma center openings and closings)	040207	
h. National healthcare picture forecast	040208	
i. Budgetary plans and allowances	040209	
Skill in:		
j. Budgeting	040210	
k. Requesting and justifying FTEs	040211	
l. Allocating resources	040212	
m. Analyzing trauma billing	040213	
n. Translating national healthcare changes to appropriate initiatives in the trauma center and trauma system (e.g., reimbursement of underinsured and uninsured)	040214	

Description	Classification	Content Weight
Task 3: Explore external funding resources to maximize opportunities in the areas of research, education, and prevention to increase awareness and enhance care.	040300	0.0210
Knowledge of:		
a. Budgetary management (e.g., fiscal history, future forecasting, operating knowledge)	040301	
b. Current shifts in revenue sources	040302	
c. Status of activation fees and reimbursement	040303	
d. Local, regional, and national climate (e.g., trauma center openings and closings)	040304	
e. External funding sources	040305	
f. Organizational philanthropic philosophy, policies, and processes	040306	
g. Allocation of resources	040307	
h. Grant proposals (e.g., philanthropic, grants, donations)	040308	
Skill in:		
i. Managing fiscal resources	040309	
j. Communicating complex concepts and data to multiple audiences	040310	
k. Working effectively on short timelines	040311	
Task 4: Develop and encourage interprofessional collaboration (e.g., physicians, nurses, EMS providers, referring facilities) by using leadership and management skills, institutional policies and procedures, and good communication to establish a functional trauma program.	040400	0.0354
Knowledge of:		
a. Local and regional stakeholders	040401	
b. Organizational structure	040402	
c. Trauma system resources	040403	
d. Prehospital and other community resources	040404	
Skill in:		
e. Building and leading groups and teams	040405	
f. Engaging (e.g., physicians, nurses, registrars, EMS staff, administrators)	040406	
g. Negotiating toward a common goal	040407	
h. Communicating complex concepts and data to multiple audiences	040408	
i. Delegating necessary tasks to the appropriate people	040409	
j. Mentoring and developing staff with fewer skills and less experience	040410	

Description	Classification	Content Weight
k. Facilitating crucial conversations	040411	
Domain 5: Public Relations and Marketing		
	050000	0.0872
Task 1: Recognize and participate in trauma center marketing and public relations opportunities through electronic media and publications to demonstrate the added value of trauma center care (e.g., research, prevention, innovations, annual reports, education, patient stories).	050100	0.0221
Knowledge of:		
a. Public speaking	050101	
b. Public relations	050102	
c. Marketing strategies	050103	
d. Social media etiquette and trends	050104	
Skill in:		
e. Delivering presentations	050105	
f. Creating and delivering impact messaging	050106	
g. Analyzing and presenting data	050107	
h. Using electronic media platforms (e.g., Twitter, Facebook, Instagram, YouTube, blogging)	050108	
i. Communicating with intergenerational and multicultural groups from various disciplines	050109	
j. Communicating science, statistics, and data by using the concepts of "social math and framing" (translating statistics and data so that they are meaningful to audiences of different levels)	050110	
Task 2: Foster relationships with hospital marketing and public relations staff by collaborating to develop strategies for promoting the trauma program both internally and externally (e.g., public service announcements, social messaging, media events, expert interviews) to increase awareness of the public health benefits of organized trauma care.	050200	0.0225
Knowledge of:		
a. Concept of dominant frame to develop impact injury prevention messages	050201	
b. Marketing strategies and public relations etiquette	050202	
c. Prioritized injury prevention platforms	050203	
Skill in:		
d. Facilitating open discussion	050204	
e. Identifying the target audience	050205	
f. Maintaining professionalism	050206	
g. Communicating complex ideas in literacy-appropriate terms	050207	

Description	Classification	Content Weight
h. Communicating with intergenerational and multicultural groups	050208	
i. Developing a coordinated message strategy	050209	
j. Conducting a needs assessment of the trauma system	050210	
Task 3: Develop a personal skill set through collaboration with the marketing department to appropriately represent the trauma center at public relations and marketing events and other open forums.	050300	0.0214
Knowledge of:		
a. Target market for current need	050301	
b. Personal comfort level with public speaking approaches	050302	
c. Resources available to improve public relations skills	050303	
Skill In:		
d. Identifying target markets	050304	
e. Engaging stakeholders	050305	
f. Speaking in a public forum	050306	
g. Conveying clear, concise messages	050307	
h. Projecting authority and credibility to the audience	050308	
i. Positioning oneself as a liaison	050309	
j. Understanding the current viewpoints of the audience	050310	
Task 4: Offer resources to area trauma program staff and providers by way of job shadowing, consultation, and follow-up to promote collegiality and strengthen the patient care relationship.	050400	0.0213
Knowledge of:		
a. Cultural diversity	050401	
b. Collaborative practice	050402	
c. Regional referral patterns	050403	
d. Key stakeholders in the trauma system	050404	
e. Needs of stakeholders	050405	
Skill In:		
f. Mastering influence and negotiation skills	050406	
g. Building and leading groups and teams	050407	
h. Communicating effectively via a variety of platforms (e.g., verbal, electronic, written)	050408	
Domain 6: Project Management	060000	0.0957
Task 1: Develop and execute performance improvement projects through monitoring data trends, outcomes, and other metrics to improve trauma care across the continuum.	060100	0.0362

Description	Classification	Content Weight
Knowledge of:		
a. PIPS methodologies	060101	
b. Trauma taxonomy	060102	
c. Local, regional, and national data sources (submission and retrieval)	060103	
d. Project management processes	060104	
e. Patient privacy laws	060105	
f. Data security policies	060106	
Skill in:		
g. Analyzing and reporting trauma registry data	060107	
h. Creating and manipulating relevant data reports	060108	
i. Applying taxonomy categories and principles to PIPS data	060109	
j. Leading effectively in the organization	060110	
k. Managing time effectively and efficiently	060111	
l. Analyzing data objectively	060112	
m. Communicating effectively throughout the organization	060113	
n. Tracking and trending data	060114	
o. Monitoring progress of project completion	060115	
Task 2: Use the trauma registry and other data sources to align with local, regional, and national injury prevention partners for prioritizing initiatives to improve population-based health.	060200	0.0314
Knowledge of:		
a. Local, regional, and national data sources	060201	
b. Local, regional, and state initiatives	060202	
c. Community partners and stakeholders	060203	
d. Alternative and non-budgeted funding sources	060204	
e. Demographic and market analysis sources	060205	
Skill in:		
f. Accessing, analyzing, and presenting data	060206	
g. Networking	060207	
h. Building collaborative teams	060208	
i. Writing grants and proposals	060209	
j. Applying demographic and regional data to initiatives	060210	
Task 3: Serve as a liaison to local, regional, state, and federal government entities to gain support of and collaboration with the trauma system.	060300	0.0281
Knowledge of:		
a. Government relations	060301	

Description	Classification	Content Weight
b. Community partners and stakeholders	060302	
c. Trauma system components and models	060303	
d. Model trauma system plan	060304	
e. State's trauma system plan	060305	
f. Rules, regulations, administrative code, law, and peer protections	060306	
g. City, county, state, and federal processes	060307	
h. Solicitation for favors	060308	
Skill in:		
i. Networking with professionals from other organizations	060309	
j. Communicating technical results to different levels of audiences	060310	
k. Communicating effectively across a wide variety of stakeholders	060311	



Society of Trauma Nurses Trauma Program Manager JA Study

Location	Morrisville, North Carolina	Time	8:30 a.m. to 5 p.m.
Date	29–30 September 2017 01 October 2017		
Facilitator	James A. Penny, Ph.D. Senior Psychometrician Castle Worldwide, Inc.	Host	Stephanie Czuhajewski Executive Director Society of Trauma Nurses

Schedule of Activities

29 September 2017

1. Introductions
2. Description of roles
 - a. Host: Stephanie Czuhajewski
 - b. Facilitator: Jim Penny
3. Housekeeping
4. Charge to the panel
 - a. Why we are here
 - b. The intent of the work
5. Description of meeting ground rules
 - a. Breaks
 - b. Lunch
 - c. Discussion
 - d. Consensus
 - e. Work groups
 - f. Word file version control
 - g. Word file formatting
6. Description of the target audience
7. Whole-group discussion of exemplar task, knowledge, and skill outline
8. The grammar of task statements
9. Start of workgroup discussion, development, and revision of task statements

30 September 2017

10. Continued development of task statements
11. Group consensus on task statements
12. Aggregation of task statements into performance domains
13. The grammar of knowledge and skill statements
14. Workgroup development of knowledge and skill statements
15. Housekeeping

01 October 2017

16. Housekeeping
17. Continued workgroup development of knowledge and skill statements
18. Consensus on task, knowledge, and skill statements
19. Housekeeping
20. Closure

Notes

1. We have no formal break schedule. Step out as you need.
2. Lunch will be served about noon.
3. The dress code is business casual.
4. Please keep your cell phones on vibrate. Please take calls outside the room.
5. Consensus does not mean you concur completely. It does mean you can live with it.
6. We will not vote to resolve differences. Differences will be resolved by discussion.
7. Please bring laptops. We will conduct most of this work in Word and exchange the files by flash drive. If the security on your laptop prevents the use of flash drives, we'll exchange files by email.

Sample Trauma Program Manager/Coordinator Job Description

Job Title: Trauma Program Coordinator

Reports to: Director of Nursing

Qualifications:

1. Bachelor's degree
2. Currently licensed as registered nurse in Minnesota.
3. Currently certified in TNCC, CALS, CATN or ATCN.
4. Three years clinical experience in trauma/emergency care.
5. Ability to establish and maintain effective interpersonal relationships.
6. Ability to accept and implement change.
7. Ability to problem solving make decisions.
8. Possession of critical thinking, analytical, teaching/coaching and research skills.

Nature and scope: The Trauma Program Coordinator (TPC) is responsible for developing, implementing and maintaining a cost-effective system of care for trauma patients and their families throughout the continuum of care. The TPC works both independently and in collaboration with the trauma program medical director and other members of the health care team and the management staff. The TPC is self-directed and self-motivating, plans and conducts work with minimal direction, and reports the progress of work to the director of nursing.

Principal Duties and Responsibilities:

Administration:

- Support and adhere to hospital policies, procedures, philosophy and mission.
- Produce and manage the trauma program budget.
- Interpret and implement policies and procedures; make recommendations for revisions; assist with updating policies and procedures.
- Participate in the development and planning of goals and objectives related to trauma care.
- Coordinate with the medical director, hospital administration and clinicians to assess the need for policies, procedures and protocols relating to the care of trauma patients.
- Develop policies and procedures based on current literature, input from clinicians and other sources such as information from patient care evaluations.
- Represent the Trauma Program on various hospital and community committees to enhance and foster optimal trauma care management.
- Participate in the budget process: anticipate trends, future needs of the trauma program.
- Work with a broad array of department to resolve inefficiencies and reduce costs
- Supervise adherence to hospital policies and procedures and standards through observation, medical record review, staff feedbacks and other appropriate sources.
- Serves as a liaison to administration, representing the Trauma Program on various hospital and community committees to enhance and foster a fiscally sound Trauma Program.
- Monitor trauma care financial reimbursement issues.

Program Initiatives:

- Implements program initiatives.
- Monitor and maintain compliance with statewide trauma system regulatory requirements.

- Coordinate preparation for statewide trauma system designation site visit.
- Develop and foster collaborative relationships with all hospital departments to facilitate and support quality trauma care.
- Participate in state and regional trauma care activities
- Monitor national and statewide trends in trauma care.
- Respond to trauma team activations that occur during work hours; function in what ever role necessary to assist the team in the care of the patient.
- Serve as a resource for the hospital staff regarding trauma care issues.
- Plan and implement strategies for ongoing trauma program development and improvement.
- Monitor state and national trends in trauma care.
- Collaborate with trauma program medical director, physicians and other health care professionals to provide clinical and system oversight for the care of trauma patients, ensuring the provision of efficient, quality, cost-effective care.

Performance Improvement:

- Assess and improve departmental performance.
- Maintains quality control programs and participates in the organization's overall quality control program.
- Monitor performance of hospital staff involved with the care of trauma patients.
- Monitor trauma patient outcomes; evaluate for trends.
- Coordinate with physicians, nurses, other in-hospital staff and outside providers to evaluate and address specific patient care issues.
- Participate in case review.
- Assist the trauma program medical director and hospital administration in the development, implementation and evaluation of a quality plan which is multi disciplinary and patient-outcomes focused.
- Serve as the coordinator for the identification, investigation, reporting and follow up of incidents and quality issues throughout the program while maintaining confidentiality.
- Monitors the trauma team's availability and compliance with policies and standards.
- Develop and monitor the trauma PI program in collaboration with the trauma program medical director.
- Coordinate and schedule the morbidity and mortality committee and multidisciplinary review meetings.
- Assists in data collection related to the trauma patient.
- Analyze registry data on the trauma patient population; identify trends for strategic planning and performance improvement.
- Manage registry data: collect, analyze and trend.
- Supervise the collecting, coding, scoring and developing of processes for validation of data entered into the registry.
- Ensure accurate data entry into the trauma registry.
- Ensures the maintenance of the trauma registry in collaboration with the trauma registrar.
- Ensure the periodic reporting of trauma data to the state trauma program.
- Facilitate the measurement of selected outcomes for the trauma patient population.

Clinical Education:

- Plan, coordinate and evaluate trauma-related educational programs for nursing staff.

- Monitor physician and nurse compliance with the educational requirements of the trauma program.
- Ensure staffs involved in the care of trauma patients meet educational requirements of the trauma program.
- Develop, coordinate and implement orientation, nursing education, and in-service programs related to care and management of trauma patients.
- Seek and pursue opportunities for internal and external trauma-related educational programs for hospital staff.

Community Outreach:

- Coordinate and oversee the development and implementation of an injury prevention program.
- Direct community trauma education and prevention programs by developing, implementing and evaluating programs for targeted populations in the community related to injury prevention and other topics identified through needs assessment of the community.
- Develop and implement strategies for communication, education and feedback for EMS systems in the catchment area.
- Identify opportunities for injury prevention programming in the local communities.
- Plan, coordinate and collaborate with community representatives to accomplish injury prevention activities.
- Evaluate the impact of injury prevention activities.
- Seek and pursue opportunities for internal and external trauma-related educational programs for hospital staff, patients, families and the community.

Knowledge and Skill:

- Analyze and interpret complicated information.
- Determines a course of action based on research, data, standards of care and general guidelines/protocols.
- Communicate effectively with a wide variety of intra- and inter-facility staff and administration using both oral and written communication.

Society of Trauma Nurses Position Statement: Qualifications, Competencies, and Continuing Education for Trauma Nurses



Background

Traumatic injury is the leading cause of death for person's ages 1-44 years¹, and continues to rise as a leading cause of death for all others, especially the elderly who are very vulnerable to injury mechanisms. Traumatic injury mechanisms cover all unintentional mechanisms (car crash, fall, pedestrian struck, animal bites, etc.) through intentional mechanisms of suicide, homicide, and domestic and interpersonal relationship violence. Traumatic injury is a serious public health issue and requires significant expertise across the entire continuum to make an impact in outcome and prevention. Skilled and knowledgeable bedside care givers can have a tremendous positive effect on the outcome after injury as well as the prevention of injuries.

The Society of Trauma Nurses (STN) is dedicated to ensuring optimal trauma care to all people globally through initiatives focused on trauma nurses related to prevention, education and collaboration with other healthcare disciplines. STN advocates for the highest level of quality trauma care across the continuum. We accomplish this through an environment that fosters visionary leadership, mentoring, innovation and interdisciplinary collaboration in the delivery of trauma care.

Trauma Nursing

Trauma nursing is a specialty area of nursing practice, which includes all components of care for the injured and those at risk of injury. Trauma nurses practice in all settings across the trauma continuum, from injury prevention, prehospital care, resuscitation, stabilization, supportive treatment, rehabilitation and reintegration into society.² Trauma nursing requires specific knowledge, skills to deliver the highest quality and safest care as well as to provide expertise in evidence-based population health prevention initiatives.

Although trauma nurses must have very specific knowledge and skills to practice within a subspecialty, all trauma nurses must possess a baseline knowledge of mechanism of injury, injury patterns with evidence-based treatment interventions, performance improvement and patient safety initiatives to include injury prevention initiatives. Additionally, trauma nurses must be adept at collaborating across interprofessional teams, compliance with regulations and

¹ http://www.cdc.gov/injury/wisqars/overview/key_data.html, accessed June 1, 2016

² <https://www.facs.org/~media/files/quality%20programs/trauma/vrc%20resources/resources%20for%20optimal%20care%202014%20v11.ashx>, accessed June 1, 2016

standards and the development and implementation of standards, driven by research and evidence based practice.

Trauma nurses serve in a variety of clinical, administrative and managerial roles.³⁴ The following represent some specific areas of focus for trauma nurses and trauma program nurse leaders:

- **Clinical Trauma Nurse:** Provides direct patient care with an emphasis on the injured patient's acute medical, surgical, and rehabilitative needs. The bedside trauma nurse manages and facilitates the care of the trauma patient with consideration to his/her physical, psychological, emotional and spiritual needs. Clinical trauma nurses work in various settings across the continuum of care, including pre-hospital environments, trauma centers, emergency departments, intensive care units, medical-surgical units and rehabilitation areas.
- **Administrative responsibilities:** May include management across the continuum of trauma care, which includes the planning and implementation of clinical protocols and practice management guidelines, monitoring care of in-hospital patients, and serving as a resource for clinical practice.
- **Education responsibilities:** Provide for intrafacility and regional professional staff development, participate in case review, implement practice guidelines, and direct community trauma education and prevention programs.
- **Performance improvement:** Monitor clinical processes and outcomes and system issues related to the quality of care provided; develop quality filters, audits, and case reviews; identify trends and sentinel events; and help outline remedial actions while maintaining confidentiality.
- **Administration:** Manage, as appropriate, the operational, personnel, and financial aspects of the trauma program. Serve as a liaison to administration, and represent the trauma program on various hospital and community committees to enhance and foster optimal trauma care.
- **Supervision of the trauma registry:** Supervise collection, coding, scoring, and developing processes for validation of data. Design the registry to facilitate performance improvement activities, trend reports, and research while protecting confidentiality.
- **Consultant and liaison:** Stabilize the complex network of the many disciplines that work in concert to provide high-quality care. Serve as an internal resource for staff in all departments, and act as a liaison for EMS agencies.

³ http://journals.lww.com/journaloftraumanursing/Abstract/2016/03000/The_History_and_Evolution_of_the_Trauma_Program.10.aspx

⁴ www.traumanurses.org

- Research: Have an active involvement in research projects and the analysis and distribution of findings. Facilitate protocol design for accurate data collection, feedback, and analysis.
- Community and national involvement in trauma care systems: Participate in the development of trauma care systems at the community, state, provincial, or national levels.

Continuing Education

The Society of Trauma Nurses recognizes that continuing education is required for all registered nurses and healthcare professionals. The Society of Trauma Nurses supports this and encourages all its members and other providers to obtain continuing education and other ongoing training. The Society of Trauma Nurses recognizes that states, accrediting bodies and healthcare institutions will have their own continuing education requirements that the registered nurse must maintain. STN recommends trauma-related continuing education within the following areas:

- A. Clinical Practice
 1. Head and Neck
 - a. Neurologic trauma
 - b. Traumatic brain injuries
 - c. Spinal injuries
 - d. Maxillofacial and neck trauma
 - e. Facial fractures
 - f. Ocular trauma
 2. Trunk
 - a. Thoracic trauma
 - b. Chest wall injuries
 - c. Pulmonary injuries
 - d. Cardiac injuries
 - e. Great vessel injuries
 - f. Abdominal trauma
 - g. Hollow organ injuries
 - h. Solid organ injuries
 - i. Diaphragmatic injuries
 - j. Retroperitoneal injuries
 - k. Genitourinary trauma
 - l. Obstetrical trauma
 3. Extremity and Wound
 - a. Musculoskeletal trauma
 - b. Vertebral injuries
 - c. Pelvic injuries
 - d. Compartment syndrome

- e. Amputations
- f. Extremity fractures
- g. Soft-tissue injuries
- h. Surface and burn trauma
4. Special Considerations
 - a. Psychosocial issues related to trauma
 - b. Shock
- B. Continuum of Care
 1. Injury prevention
 2. Pre-hospital care
 3. Patient safety
 4. Patient transfer
 5. Forensic issues
 6. Advanced directives
 7. Palliative care
 8. Rehabilitation
- C. Professional Issues
 1. Quality
 2. Performance Improvement
 3. Disaster Management
 4. HIPAA/EMTALA
 5. Ethical Considerations

STN has developed and recommends the following courses to fulfill some of these clinical and professional continuing education requirements:

- Advanced Trauma Care for Nursing (ATCN),
- Optimal Trauma Center Organization & Management Course (Optimal),
- Trauma Outcomes & Performance Improvement Course (TOPIC),
- STN Nurse Leadership Institute,
- STN Electronic Library of Lectures, and
- STN TCRN® Preparatory Course
- Continuing education opportunities sponsored by the Journal of Trauma Nursing (JTN)

Trauma Certification

The Trauma Certified Registered Nurse (TCRN®) certification is a mark of distinction for trauma nurses across the continuum of trauma care. Attainment of the TCRN® certification demonstrates an individual's commitment to excellence, and is an objective demonstration of knowledge and skills within the trauma nursing continuum. STN believes strongly in the attainment of the TCRN® certification and encourages all trauma nurses in all settings to obtain their certification upon meeting the recommended eligibility requirements.

The TCRN® examination measures a body of knowledge in nursing assessment of the trauma patient, analysis of assessment data, implementation of care, and continuous evaluation of treatment interventions across all traumatic mechanisms and injury patterns. This includes

physiologic and psychological issues associated with traumatic injury across the continuum of clinical care as well as continuous performance improvement and safety initiatives expected within the care of the trauma patient and family.

The Board of Certification for Emergency Nursing (BCEN) is the body responsible for the development and implementation of the TCRN® Certification. BCEN requires the following for qualification to sit for the TCRN® examination:

A current, unrestricted Registered Nurse license in the United States or its territories. A nursing certificate that is the equivalent to a registered Nurses in the United States is also acceptable.

The BCEN recommends the following experience and qualifications to sit for the TCRN examination:

- Two years of trauma nursing experience at an average of 1,000 practice hours/year across the trauma continuum
- Twenty (20) to thirty (30) hours of trauma specific coursework across the trauma continuum.

Conclusion

STN is committed to ensuring that trauma nurses have access to resources, educational materials, tools and mentoring opportunities that will advance clinical, administrative and leadership skills across the continuum of trauma care. STN is committed to evidenced-based practice and the development of programs and networks that foster safe, efficient and effective care for trauma patients globally. For more information about STN and its initiatives, please visit www.traumanurses.org.

Adopted June 2016

Panelists and Qualifications

The identities and qualifications of the panelists are on file in STN headquarters in Lexington, Kentucky.

TPM Classification System and Content Blueprint

Description	Classification	Content Weight
Domain 1: Continuum of Trauma Care	010000	0.2461
Task 1: Maintain knowledge of current standards by performing initial and ongoing gap analysis for trauma center accreditation, designation, and verification requirements to optimize patient care throughout the continuum.	010100	0.0386
Knowledge of:		
a. Gap analysis	010101	
b. Standards of trauma accreditation, designation, and verification	010102	
c. Trauma education	010103	
d. Injury prevention	010104	
e. Trauma outreach	010105	
f. Trauma equipment	010106	
g. Trauma resources	010107	
h. Practice management guidelines	010108	
i. Performance improvement and patient safety (PIPS)	010109	
j. Evidence-based resources	010110	
Skill in:		
k. Interpreting standards and data	010111	
l. Performing a comparison of the current trauma program against trauma center requirements	010112	
m. Recommending relevant trauma education	010113	
n. Teaching trauma education	010114	
o. Prioritizing injury prevention activities	010115	
p. Overseeing injury prevention activities	010116	
q. Evaluating effectiveness of trauma prevention	010117	
r. Strategically planning trauma outreach activities	010118	
s. Prioritizing outreach activities	010119	
t. Evaluating effectiveness of trauma outreach	010120	
u. Integrating practice management guidelines into current practice	010121	
v. Reviewing care provided to trauma patients	010122	
w. Identifying performance issues with care provided	010123	
x. Analyzing the effects of performance issues on outcomes	010124	
Task 2: Transcend normal departmental hierarchies to achieve compliance with regulatory requirements by using effective and respectful communications.	010200	0.0362
Knowledge of:		
a. Department structure and organizational chain of command	010201	

Description	Classification	Content Weight
b. Regulatory requirements	010202	
Skill in:		
c. Communicating effectively via a variety of platforms (e.g., verbal, electronic, written)	010203	
d. Networking across hospital departments	010204	
e. Serving as the trauma liaison	010205	
f. Applying regulatory requirements	010206	
Task 3: Facilitate interprofessional trauma education by using internal and external resources to maintain adherence to accreditation, designation, and verification requirements.	010300	0.0338
Knowledge of:		
a. Advance care of the trauma patient	010301	
b. Department-specific procedures	010302	
c. Emerging and current trends in trauma care	010303	
d. Available trauma educational resources	010304	
Skill in:		
e. Facilitating or delivering job-specific training (e.g., ATLS, ATCN, TNCC, ENPC)	010305	
f. Analyzing clinical care and decision-making	010306	
g. Adhering to accreditation, designation, and verification requirements	010307	
h. Maintaining knowledge of current evidence-based trauma care	010308	
Task 4: Oversee and maintain all aspects of the trauma PIPS program consistent with accreditation, designation, and verification requirements.	010400	0.0407
Knowledge of:		
a. Data analysis	010401	
b. Advanced computer applications (e.g., trauma registry, other databases)	010402	
c. TOPIC principles and hospital-specific quality process improvement (PI) methodologies	010403	
d. Accreditation, designation, and verification requirements	010404	
e. Risk-adjusted benchmarking	010405	
f. Trauma care standards	010406	
g. Trauma clinical care processes and outcomes (internal and external metrics)	010407	

Description	Classification	Content Weight
Skill in:		
h. Applying principles from the TOPIC course to develop a PI program	010408	
i. Reporting and presenting accurate and meaningful data	010409	
j. Coordinating trauma performance projects	010410	
k. Prioritizing data and information	010411	
l. Motivating peers for collaboration and task completion	010412	
Task 5: Supervise data collection, coding, scoring, validation (IRR), reporting, and analysis to ensure that the data drive all aspects of the trauma program (e.g., clinical care, research, benchmarking, PIPS, finances).	010500	0.0350
Knowledge of:		
a. Scoring systems (e.g., AIS, ISS, TRISS)	010501	
b. Database management	010502	
c. ICD-10 coding	010503	
d. Validation	010504	
e. Reporting	010505	
f. Analysis	010506	
g. Hardware and trauma registry software and vendor resources	010507	
h. Local and national trauma data standards (e.g., state, NTDB, TQIP)	010508	
i. Data importing and exporting processes	010509	
j. PIPS process	010510	
k. Trauma program funding and budget	010511	
Skill in:		
l. Obtaining and applying knowledge from trauma-related courses	010512	
m. Maintaining secure data	010513	
n. Using trauma data in research	010514	
o. Using the trauma registry to direct the trauma program	010515	
p. Supervising trauma registry staff	010516	
q. Validating trauma registry data	010517	
r. Maintaining accurate and current trauma data dashboards	010518	
s. Applying departmental needs to operating budgets	010519	
Task 6: Interface with all levels of management to communicate effectively (e.g., verbal, electronic, written) all trauma-related items, (e.g., regulatory, community, patient safety, financial, strategic planning, annual reports).	010600	0.0353

Description	Classification	Content Weight
Knowledge of:		
a. Accreditation, designation, and verification requirements	010601	
b. Creation of an annual report	010602	
c. Strategic planning process	010603	
d. Patient safety	010604	
Skill in:		
e. Navigating across the continuum of care and up the organizational chain of command	010605	
f. Formulating appropriate verbal, electronic, and written communication	010606	
g. Incorporating fiscal responsibility into the trauma program	010607	
h. Promoting the trauma center in public forums	010608	
i. Developing accurate reports from a trauma registry	010609	
j. Delivering relevant information based on audience level	010610	
Task 7: Reduce injury rates by aligning with local, regional, and national injury prevention and community outreach initiatives to improve population-based health.	010700	0.0266
Knowledge of:		
a. Evidence-based injury prevention programs and how to develop hospital-specific programming	010701	
b. Drivers of injury prevention development (e.g., trauma registry, public health data)	010702	
c. Public health as it relates to the injured patient and population health	010703	
d. Model trauma system plan	010704	
e. Local, regional, and national injury prevention resources	010705	
Skill in:		
f. Applying knowledge in injury prevention planning	010706	
g. Participating in the development of injury prevention activities and programs	010707	
h. Creating literacy-appropriate educational materials	010708	
i. Evaluating the effectiveness of injury prevention endeavors	010709	
j. Injury prevention planning (e.g., data, development, collaboration, delivery)	010710	
Domain 2: Professional Issues	020000	0.2813
Task 1: Collaborate with internal departments across the continuum of care to maintain accreditation, designation, and verification through the implementation and maintenance of trauma center criteria and regulations to promote optimal care of the injured patient.	020100	0.0375

Description	Classification	Content Weight
Knowledge of:		
a. Accreditation, designation, and verification requirements	020101	
b. Continuum of trauma care	020102	
c. Hospital organizational structure	020103	
d. Trauma systems	020104	
Skill in:		
e. Interpreting and translating trauma center criteria, standards, and regulations	020105	
f. Utilizing research and conducting evidence-based practice	020106	
g. Developing clinical practice guidelines, internal policies, and procedures	020107	
h. Collaborating with facilities of varying resources	020108	
i. Developing and presenting presentations	020109	
Task 2: Establish a functional PIPS program by using the principles of TOPIC as well as American College of Surgeons (ACS), state, and institutional recommendations to identify and resolve deviations from standards of trauma care to reduce mortality and morbidity.	020200	0.0385
Knowledge of:		
a. Trauma standards of care	020201	
b. PI methodologies	020202	
c. Benchmarking (Trauma Quality Improvement Program [TQIP])	020203	
d. Quality metrics	020204	
e. Hospital, state, and federal privacy laws, and peer review protection	020205	
Skill in:		
f. Demonstrating a systematic method to review performance issues that results in timely and complete loop closure	020206	
g. Managing data to support PIPS	020207	
h. Applying TOPIC principles	020208	
i. Using queries for report writing	020209	
j. Interpreting data sets	020210	
k. Analyzing data	020211	
l. Making presentations	020212	
m. Communicating technical results to different levels of audiences	020213	
n. Managing meetings (e.g., coordination, documentation)	020214	

Description	Classification	Content Weight
Task 3: Advocate for lifelong learning for all trauma care providers and program staff by providing resources for internal and external evidence-based education to promote improvement in trauma patient care and outcomes.	020300	0.0309
Knowledge of:		
a. Trauma education resources	020301	
b. Current evidence-based practice	020302	
c. Current PI data	020303	
d. Gap analysis	020304	
e. Project management	020305	
Skill in:		
f. Promoting and participating in evidence-based education	020306	
g. Preparing and presenting evidence-based education	020307	
h. Tracking emerging trends in trauma care	020308	
i. Engaging staff	020309	
j. Interpreting PI data	020310	
k. Developing curriculum	020311	
l. Facilitating adult education and learning	020312	
m. Analyzing data	020313	
Task 4: Facilitate interprofessional collaboration and communication within the trauma program, center, and system to maximize a patient's functional outcome.	020400	0.0335
Knowledge of:		
a. Transgenerational and interdisciplinary communication requirements and techniques	020401	
b. Trauma program, center, and system partners, including principles of organizational structure	020402	
c. Local, regional, and national healthcare trends to identify barriers and opportunities to care	020403	
Skill in:		
d. Collaborating with interprofessional groups	020404	
e. Communicating complex concepts and data to multiple audiences	020405	
f. Facilitating crucial conversations and confrontations	020406	
Task 5: Foster and maintain relationships with prehospital agencies and referring facilities to improve quality of trauma care through effective feedback.	020500	0.0320

Description	Classification	Content Weight
Knowledge of:		
a. Effective communication (e.g., verbal and written communications, site reviews, case presentations, education)	020501	
b. PIPS	020502	
c. Hospital policy and state and federal privacy laws	020503	
d. PI methodologies	020504	
Skill in:		
e. Fostering professional relationships	020505	
f. Generating stakeholder engagement	020506	
g. Presenting in public forums	020507	
h. Planning and coordinating events with prehospital and referring facilities	020508	
i. Conducting loop closure	020509	
Task 6: Contribute to the development and implementation of an emergency preparedness plan by participating in institutional and regional training activities to respond to potential threats (e.g., mass casualty, active shooter, natural disasters).	020600	0.0260
Knowledge of:		
a. Internal and external emergency preparedness plans	020601	
b. Essential contacts within institutions and trauma systems	020602	
c. Local, regional, and national resources	020603	
d. After-action reporting	020604	
e. Incident command systems (internal and external)	020605	
f. Hospital and system emergency preparedness plans	020606	
g. Hospital capacity and surge	020607	
h. Emergency management	020608	
Skill in:		
i. Leading in a highly complex and stressful environment	020609	
j. Planning and executing exercises	020610	
k. Solving problems	020611	
l. Managing critical incident stress	020612	
m. Planning and participating in institutional and regional training activities	020613	
n. Collaborating with content experts	020614	
Task 7: Support trauma staff across the continuum by identifying critical incident stress management and ethics resources to promote resiliency and prevent compassion fatigue.	020700	0.0232

Description	Classification	Content Weight
Knowledge of:		
a. Critical incident stress management resources	020701	
b. Compassion fatigue	020702	
c. Available ethics consultants	020703	
Skill in:		
d. Recognizing signs of compassion fatigue	020704	
e. Fostering resilience, mental and physical health, and well-being of self and staff	020705	
f. Developing a sustainable culture of work-life balance	020706	
g. Equipping employees with healthy coping skills and the ability to identify risk behaviors	020707	
Task 8: Facilitate interprofessional trauma education by utilizing internal and external resources and programs (e.g., ATLS, ATCN, TNCC, TCAR, PCAR) to maintain adherence to accreditation, designation, and verification requirements.	020800	0.0315
Knowledge of:		
a. Internal and external educational resources	020801	
b. Accreditation, designation, and verification educational requirements	020802	
Skill in:		
c. Facilitating education programs	020803	
d. Role-modeling professional presence	020804	
e. Participating in professional development	020805	
Task 9: Participate in local, regional, and national professional organizations and forums to promote and advocate for trauma patients, trauma systems, and trauma care provider professional development.	020900	0.0282
Knowledge of:		
a. Professional organizations and associations	020901	
b. Methods of advocating for trauma patients, systems, and care providers	020902	
c. Available resources for funding advocacy	020903	
d. State and national trauma systems	020904	
e. Professional decorum	020905	
Skill in:		
f. Promoting advocacy	020906	
g. Advancing the provision of optimal trauma care	020907	

Description	Classification	Content Weight
h. Communicating complex concepts and data to multiple audiences	020908	
i. Demonstrating leadership with groups of professionals over whom the leader has no authority	020909	
Domain 3: Human Resources	030000	0.1801
Task 1: Lead trauma center staff through direct interaction and communication by using institutional resources to enhance and maintain operational functions.	030100	0.0307
Knowledge of:		
a. Institutional resources	030101	
b. Operational functions	030102	
c. Talent acquisition and management	030103	
d. Organizational policies and procedures	030104	
e. Goal development	030105	
Skill in:		
f. Communicating effectively across generational and cultural groups	030106	
g. Building and leading groups and teams	030107	
h. Resolving conflict	030108	
i. Leading with various techniques (e.g., visionary, transformation, motivational)	030109	
j. Facilitating crucial conversations	030110	
Task 2: Measure (annually and ad hoc) overall performance of trauma program staff by using hospital- and department-specific tools to maintain compliance with job descriptions.	030200	0.0286
Knowledge of:		
a. Hospital and departmental performance evaluation tools and human resources policies	030201	
b. Job description development	030202	
c. Organizational performance management process	030203	
Skill in:		
d. Evaluating job performance	030204	
e. Communicating effectively	030205	
f. Coaching and mentoring for success	030206	

Description	Classification	Content Weight
Task 3: Develop and monitor the orientation process for all trauma administrative and program staff to attain and maintain all organizational and trauma accreditation, designation, and verification requirements and job-specific functions.	030300	0.0286
Knowledge of:		
a. Accreditation, designation, and verification requirements	030301	
b. Orientation processes	030302	
c. Performance management processes	030303	
d. Emotional intelligence	030304	
Skill in:		
e. Developing competency assessments as required	030305	
f. Evaluating proficiency (e.g., novice, proficient, expert)	030306	
g. Developing and coordinating educational sessions	030307	
Task 4: Collaborate with departments across the continuum of trauma care to develop and maintain trauma-specific components of orientation and ongoing competencies.	030400	0.0282
Knowledge of:		
a. Hospital continuum of care	030401	
b. Current trauma care trends	030402	
c. Evidence-based practice	030403	
d. Current trauma education offerings	030404	
e. Principles of adult education and adult learning	030405	
Skill in:		
f. Developing orientation (e.g., unit-based, hospital staff, trauma staff) and competencies	030406	
g. Developing curriculum	030407	
h. Communicating effectively across generational and cultural groups	030408	
i. Collaborating with multiple departments	030409	
j. Creating and delivering institutional guidelines	030410	
k. Teaching and presenting	030411	
Task 5: Optimize communication with staff to promote continued growth and professional development.	030500	0.0312
Knowledge of:		
a. Professional development	030501	
b. Staff rewards and recognition	030502	
c. Transparent communications	030503	

Description	Classification	Content Weight
d. Talent management	030504	
Skill in:		
e. Building teams	030505	
f. Planning tactics and strategy	030506	
g. Developing strategic initiatives	030507	
h. Setting goals for programs	030508	
i. Retaining staff	030509	
j. Educating staff	030510	
k. Communicating with intergenerational and multicultural groups	030511	
Task 6: Collaborate with departments and divisions across the continuum of trauma care to facilitate adherence to hospital standards, required licensure, certifications, education, and other metrics to meet trauma center requirements.	030600	0.0328
Knowledge of:		
a. Hospital standards	030601	
b. Regulatory standards	030602	
c. Licensure, certification, and education requirements	030603	
d. Quality metrics to meet accreditation, designation, and verification	030604	
Skill in:		
e. Collaborating with others	030605	
f. Communicating effectively	030606	
g. Organizing data	030607	
h. Negotiating with and influencing people	030608	
i. Measuring and reporting compliance standards	030609	
j. Developing and reporting gap analysis	030610	
k. Developing action plans against gaps	030611	
l. Developing monitoring strategies for implemented actions	030612	
Domain 4: Management of Physical Resources, Financial Resources, and Medical Professionals	040000	0.1096
Task 1: Facilitate the evaluation of medical equipment and other physical resource needs of the trauma system for standard and innovative technologies annually and through issues identified using the PI process to maintain optimal trauma care.	040100	0.0253
Knowledge of:		
a. Emerging trends in trauma care (e.g., guidelines, innovations, technology)	040101	

Description	Classification	Content Weight
b. Procurement (e.g., medical equipment, office space, computers, printers, software licenses)	040102	
c. Accreditation, designation, and verification requirements	040103	
d. Trauma registry	040104	
e. Fiscal management principles	040105	
f. Local and regional injury data	040106	
g. Geographic and regional variations in the system and the impact on resources	040107	
Skill in:		
h. Interpreting data	040108	
i. Utilizing resources	040109	
j. Negotiating to advocate for program physical resources	040110	
k. Planning and executing budgets to obtain physical resources	040111	
l. Creating registry queries	040112	
m. Analyzing and interpreting critical data	040113	
n. Writing proposals	040114	
o. Developing business plans	040115	
Task 2: Evaluate financial needs and make appropriate allocation adjustments to the trauma budget to maintain fiscal viability of the trauma program.	040200	0.0280
Knowledge of:		
a. Financial management principles	040201	
b. Fiscal history and future projections	040202	
c. Current operating margin	040203	
d. Revenue flow (e.g., activations fees, reimbursement, documentation, coding)	040204	
e. Variability of resources	040205	
f. Opening and closing programs	040206	
g. Local, regional, and national trends (e.g., trauma center openings and closings)	040207	
h. National healthcare picture forecast	040208	
i. Budgetary plans and allowances	040209	
Skill in:		
j. Budgeting	040210	
k. Requesting and justifying FTEs	040211	
l. Allocating resources	040212	
m. Analyzing trauma billing	040213	
n. Translating national healthcare changes to appropriate initiatives in the trauma center and trauma system (e.g., reimbursement of underinsured and uninsured)	040214	

Description	Classification	Content Weight
Task 3: Explore external funding resources to maximize opportunities in the areas of research, education, and prevention to increase awareness and enhance care.	040300	0.0210
Knowledge of:		
a. Budgetary management (e.g., fiscal history, future forecasting, operating knowledge)	040301	
b. Current shifts in revenue sources	040302	
c. Status of activation fees and reimbursement	040303	
d. Local, regional, and national climate (e.g., trauma center openings and closings)	040304	
e. External funding sources	040305	
f. Organizational philanthropic philosophy, policies, and processes	040306	
g. Allocation of resources	040307	
h. Grant proposals (e.g., philanthropic, grants, donations)	040308	
Skill in:		
i. Managing fiscal resources	040309	
j. Communicating complex concepts and data to multiple audiences	040310	
k. Working effectively on short timelines	040311	
Task 4: Develop and encourage interprofessional collaboration (e.g., physicians, nurses, EMS providers, referring facilities) by using leadership and management skills, institutional policies and procedures, and good communication to establish a functional trauma program.	040400	0.0354
Knowledge of:		
a. Local and regional stakeholders	040401	
b. Organizational structure	040402	
c. Trauma system resources	040403	
d. Prehospital and other community resources	040404	
Skill in:		
e. Building and leading groups and teams	040405	
f. Engaging (e.g., physicians, nurses, registrars, EMS staff, administrators)	040406	
g. Negotiating toward a common goal	040407	
h. Communicating complex concepts and data to multiple audiences	040408	
i. Delegating necessary tasks to the appropriate people	040409	
j. Mentoring and developing staff with fewer skills and less experience	040410	

Description	Classification	Content Weight
k. Facilitating crucial conversations	040411	
Domain 5: Public Relations and Marketing		
050000		
0.0872		
Task 1: Recognize and participate in trauma center marketing and public relations opportunities through electronic media and publications to demonstrate the added value of trauma center care (e.g., research, prevention, innovations, annual reports, education, patient stories).	050100	0.0221
Knowledge of:		
a. Public speaking	050101	
b. Public relations	050102	
c. Marketing strategies	050103	
d. Social media etiquette and trends	050104	
Skill in:		
e. Delivering presentations	050105	
f. Creating and delivering impact messaging	050106	
g. Analyzing and presenting data	050107	
h. Using electronic media platforms (e.g., Twitter, Facebook, Instagram, YouTube, blogging)	050108	
i. Communicating with intergenerational and multicultural groups from various disciplines	050109	
j. Communicating science, statistics, and data by using the concepts of "social math and framing" (translating statistics and data so that they are meaningful to audiences of different levels)	050110	
Task 2: Foster relationships with hospital marketing and public relations staff by collaborating to develop strategies for promoting the trauma program both internally and externally (e.g., public service announcements, social messaging, media events, expert interviews) to increase awareness of the public health benefits of organized trauma care.	050200	0.0225
Knowledge of:		
a. Concept of dominant frame to develop impact injury prevention messages	050201	
b. Marketing strategies and public relations etiquette	050202	
c. Prioritized injury prevention platforms	050203	
Skill in:		
d. Facilitating open discussion	050204	
e. Identifying the target audience	050205	
f. Maintaining professionalism	050206	
g. Communicating complex ideas in literacy-appropriate terms	050207	

Description	Classification	Content Weight
h. Communicating with intergenerational and multicultural groups	050208	
i. Developing a coordinated message strategy	050209	
j. Conducting a needs assessment of the trauma system	050210	
Task 3: Develop a personal skill set through collaboration with the marketing department to appropriately represent the trauma center at public relations and marketing events and other open forums.	050300	0.0214
Knowledge of:		
a. Target market for current need	050301	
b. Personal comfort level with public speaking approaches	050302	
c. Resources available to improve public relations skills	050303	
Skill In:		
d. Identifying target markets	050304	
e. Engaging stakeholders	050305	
f. Speaking in a public forum	050306	
g. Conveying clear, concise messages	050307	
h. Projecting authority and credibility to the audience	050308	
i. Positioning oneself as a liaison	050309	
j. Understanding the current viewpoints of the audience	050310	
Task 4: Offer resources to area trauma program staff and providers by way of job shadowing, consultation, and follow-up to promote collegiality and strengthen the patient care relationship.	050400	0.0213
Knowledge of:		
a. Cultural diversity	050401	
b. Collaborative practice	050402	
c. Regional referral patterns	050403	
d. Key stakeholders in the trauma system	050404	
e. Needs of stakeholders	050405	
Skill In:		
f. Mastering influence and negotiation skills	050406	
g. Building and leading groups and teams	050407	
h. Communicating effectively via a variety of platforms (e.g., verbal, electronic, written)	050408	
Domain 6: Project Management	060000	0.0957
Task 1: Develop and execute performance improvement projects though monitoring data trends, outcomes, and other metrics to improve trauma care across the continuum.	060100	0.0362

Description	Classification	Content Weight
Knowledge of:		
a. PIPS methodologies	060101	
b. Trauma taxonomy	060102	
c. Local, regional, and national data sources (submission and retrieval)	060103	
d. Project management processes	060104	
e. Patient privacy laws	060105	
f. Data security policies	060106	
Skill in:		
g. Analyzing and reporting trauma registry data	060107	
h. Creating and manipulating relevant data reports	060108	
i. Applying taxonomy categories and principles to PIPS data	060109	
j. Leading effectively in the organization	060110	
k. Managing time effectively and efficiently	060111	
l. Analyzing data objectively	060112	
m. Communicating effectively throughout the organization	060113	
n. Tracking and trending data	060114	
o. Monitoring progress of project completion	060115	
Task 2: Use the trauma registry and other data sources to align with local, regional, and national injury prevention partners for prioritizing initiatives to improve population-based health.	060200	0.0314
Knowledge of:		
a. Local, regional, and national data sources	060201	
b. Local, regional, and state initiatives	060202	
c. Community partners and stakeholders	060203	
d. Alternative and non-budgeted funding sources	060204	
e. Demographic and market analysis sources	060205	
Skill in:		
f. Accessing, analyzing, and presenting data	060206	
g. Networking	060207	
h. Building collaborative teams	060208	
i. Writing grants and proposals	060209	
j. Applying demographic and regional data to initiatives	060210	
Task 3: Serve as a liaison to local, regional, state, and federal government entities to gain support of and collaboration with the trauma system.	060300	0.0281
Knowledge of:		
a. Government relations	060301	

Description	Classification	Content Weight
b. Community partners and stakeholders	060302	
c. Trauma system components and models	060303	
d. Model trauma system plan	060304	
e. State's trauma system plan	060305	
f. Rules, regulations, administrative code, law, and peer protections	060306	
g. City, county, state, and federal processes	060307	
h. Solicitation for favors	060308	
Skill in:		
i. Networking with professionals from other organizations	060309	
j. Communicating technical results to different levels of audiences	060310	
k. Communicating effectively across a wide variety of stakeholders	060311	



STN Trauma Program Manager (TPM)

LOG IN

* Please enter the access code from your survey invitation email:

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STN Trauma Program Manager (TPM)

WELCOME

Introduction

This survey is designed to gather feedback from Trauma Program Managers like you about the roles and responsibilities of the Trauma Program Manager position.

Your participation will:

- Define the job tasks performed by the Trauma Program Manager.
- Define the content weights for the Trauma Program Manager.

Your participation is vital to the success of this project. We thank you for being a part of this important effort to advance the profession of Trauma Program Manager!

Please complete this survey by **February 19, 2018**.

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STN Trauma Program Manager (TPM)

SAMPLE TRAUMA PROGRAM MANAGER JOB DESCRIPTION

Job Title: Trauma Program Manager

Reports to: Trauma Directors

Qualifications

1. Bachelor's degree in Nursing required, Master's degree preferred.
2. Currently licensed as registered nurse in Minnesota.
3. Currently holds a TCRN, CEN or equivalent certification.
4. Has obtained certificate in TNCC, ATCN or TCAR.
5. Three years clinical experience in trauma/emergency care.
6. Ability to establish and maintain effective interpersonal relationships.
7. Ability to accept and implement change.
8. Ability to problem solving make decisions.
9. Possession of critical thinking, analytical, teaching/coaching and research skills.

Nature and scope

The Trauma Program Manager (TPM) is responsible for the organization of services and systems necessary for a multidisciplinary approach to providing care to injured patients. The includes the assumption of the day-to-day responsibility for process and performance improvement activities as they relate to nursing and ancillary personnel and assists the Trauma Program Medical Director in carrying out the same functions for physicians. The TPM with collaboration from the TMD will assist in the development, implementation and evaluation of the trauma program. The TPM will participate in case reviews conduct education and administer prevention programs, monitor outcomes and issues that focus on performance improvement. The TPM will manage the trauma support personnel and financial aspects of the program as well as act as the liaison to administration and other staff. The TPM will supervise collection and submission of data for the Statewide Trauma Registry and the National Trauma Data Bank (NTDB). The TPM works both independently and in collaboration with the trauma program medical director and other members of the health care team and the management staff. The TPM reports to the TMD and is responsible to the Chief Nursing Officer and VP of Clinical Support Services.

Principal Duties and Responsibilities

Administration:

- Support and adhere to hospital policies, procedures, philosophy and mission.
- Produce and manage the trauma program budget.
- Interpret and implement policies and procedures; make recommendations for revisions assist with updating policies and procedures.
- Participate in the development and planning of goals and objectives related to trauma care.
- Coordinate with the medical director, hospital administration and clinicians to assess the need for policies, procedures and protocols relating to the care of trauma patients.
- Develop policies and procedures based on current literature, input from clinicians and other sources such as information from patient care evaluations.
- Represent the Trauma Program on various hospital and community committees to enhance and foster optimal trauma care management.
- Participate in the budget process: anticipate trends, future needs of the trauma program.
- Work with a broad array of department to resolve inefficiencies and reduce costs.
- Supervise adherence to hospital policies and procedures and standards through observation, medical record review, staff feedbacks and other appropriate sources.
- Serves as a liaison to administration, representing the Trauma Program on various hospital and community committees to enhance and foster a fiscally sound Trauma Program.
- Monitor trauma care financial reimbursement issues.

Program Initiatives:

- Implements program initiatives.
- Monitor and maintain compliance with statewide trauma system regulatory requirements.
- Coordinate preparation for statewide trauma system designation site visit.
- Develop and foster collaborative relationships with all hospital departments to facilitate and support quality trauma care.
- Participate in state and regional trauma care activities.
- Monitor national and statewide trends in trauma care.
- Respond to trauma team activations that occur during work hours; function in whatever role necessary to assist the team in the care of the patient.
- Serve as a resource for the hospital staff regarding trauma care issues.
- Plan and implement strategies for ongoing trauma program development and improvement.
- Monitor state and national trends in trauma care.
- Collaborate with trauma program medical director, physicians and other health care professionals to provide clinical and system oversight for the care of trauma patients, ensuring the provision of efficient, quality, cost-effective care.

Performance Improvement:

- Assess and improve departmental performance.
- Maintains quality control programs and participates in the organization's overall quality control program.
- Monitor performance of hospital staff involved with the care of trauma patients.
- Monitor trauma patient outcomes; evaluate for trends.
- Coordinate with physicians, nurses, other in-hospital staff and outside providers to evaluate and address specific patient care issues.
- Participate in case review.
- Assist the trauma program medical director and hospital administration in the development, implementation and evaluation of a quality plan which is multi disciplinary and patient-outcomes focused.
- Serve as the coordinator for the identification, investigation, reporting and follow up of incidents and quality issues throughout the program while maintaining confidentiality.
- Monitors the trauma team's availability and compliance with policies and standards.
- Develop and monitor the trauma PI program in collaboration with the trauma program medical director.
- Coordinate and schedule the morbidity and mortality committee and multidisciplinary review meetings.
- Assists in data collection related to the trauma patient.
- Analyze registry data on the trauma patient population; identify trends for strategic planning and performance improvement.
- Manage registry data: collect, analyze and trend.
- Supervise the collecting, coding, scoring and developing of processes for validation of data entered into the registry.
- Ensure accurate data entry into the trauma registry.
- Ensures the maintenance of the trauma registry in collaboration with the trauma registrar.
- Ensure the periodic reporting of trauma data to the state trauma program.
- Facilitate the measurement of selected outcomes for the trauma patient population.

Clinical Education:

- Plan, coordinate and evaluate trauma-related educational programs for nursing staff.
- Monitor physician and nurse compliance with the educational requirements of the trauma program.
- Ensure staffs involved in the care of trauma patients meet educational requirements of the trauma program.
- Develop, coordinate and implement orientation, nursing education, and in-service programs related to care and management of trauma patients.
- Seek and pursue opportunities for internal and external trauma-related educational programs for hospital staff.

Community Outreach:

- Coordinate and oversee the development and implementation of an injury prevention program.
- Direct community trauma education and prevention programs by developing, implementing and evaluating programs for targeted populations in the community related to injury prevention and other topics identified through needs assessment of the community.
- Develop and implement strategies for communication, education and feedback for EMS systems in the catchment area.
- Identify opportunities for injury prevention programming in the local communities.
- Plan, coordinate and collaborate with community representatives to accomplish injury prevention activities.
- Evaluate the impact of injury prevention activities.
- Seek and pursue opportunities for internal and external trauma-related educational programs for hospital staff, patients, families and the community.

Knowledge and Skill:

- Analyze and interpret complicated information.
- Determines a course of action based on research, data, standards of care and general guidelines/protocols.
- Communicate effectively with a wide variety of intra- and inter-facility staff and administration using both oral and written communication.

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STN Trauma Program Manager (TPM)

SURVEY INSTRUCTIONS

Domain and Task Statements

Performance domains are the major areas of responsibility that describe the work performed in a particular role. They are broad categories that represent logical categorizations of the main tasks performed by the people who work in that role.

The 33 tasks identified as critical for the Trauma Program Manager have been grouped into six major performance domains as follows:

1. Continuum of Trauma Care (7 tasks)
2. Professional Issues (9 tasks)
3. Human Resources (6 tasks)
4. Management of Physical Resources, Financial Resources, and Medical Professionals (4 tasks)
5. Public Relations and Marketing (4 tasks)
6. Project Management (3 tasks)

Survey Instructions

For each of the 33 Trauma Program Manager tasks, you will be asked to answer two questions:

- **Importance:** How important is this task in the role of a competent Trauma Program Manager?
- **Frequency:** How frequently does a minimally competent Trauma Program Manager use this task?

The last page of the survey includes several demographic questions. This information will be kept confidential and will be used to demonstrate that the survey respondents are representative of the Trauma Program Manager population.

You will not need to complete the survey in one sitting; you can return multiple times. To save your completed responses before exiting the survey, click "Save | Next" at the bottom of the page, then "Exit Survey" at the top right corner. Using your email link, you can re-enter the survey at any time (prior to the survey close date) to finish.

Use only the survey navigation buttons at the bottom of each page. DO NOT use your browser navigation buttons to go through the survey because your responses will not be saved.

If you experience technical problems, please click [here](#) for help



STN Trauma Program Manager (TPM)

DOMAIN 1 - CONTINUUM OF TRAUMA CARE

Please use the scales below to evaluate each of the 7 job tasks within the *CONTINUUM OF TRAUMA CARE* domain.

0101: Maintain knowledge of current standards by performing initial and ongoing gap analysis for trauma center accreditation, designation, and verification requirements to optimize patient care throughout the continuum.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0102: Transcend normal departmental hierarchies to achieve compliance with regulatory requirements by using effective and respectful communications.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0103: Facilitate interprofessional trauma education by using internal and external resources to maintain adherence to accreditation, designation, and verification requirements.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0104: Oversee and maintain all aspects of the trauma PIPS program consistent with accreditation, designation, and verification requirements.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DOMAIN 1 - CONTINUUM OF TRAUMA CARE *continued*

Please use the scales below to evaluate each of the 7 job tasks within the *CONTINUUM OF TRAUMA CARE* domain.

0105: Supervise data collection, coding, scoring, validation (IRR), reporting, and analysis to ensure that the data drive all aspects of the trauma program (e.g., clinical care, research, benchmarking, PIPS, finances).

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0106: Interface with all levels of management to communicate effectively (e.g., verbal, electronic, written) all trauma-related items, (e.g., regulatory, community, patient safety, financial, strategic planning, annual reports).

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0107: Reduce injury rates by aligning with local, regional, and national injury prevention and community outreach initiatives to improve population-based health.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DOMAIN 2 - PROFESSIONAL ISSUES

Please use the scales below to evaluate each of the 9 job tasks within the *PROFESSIONAL ISSUES* domain.

0201: Collaborate with internal departments across the continuum of care to maintain accreditation, designation, and verification through the implementation and maintenance of trauma center criteria and regulations to promote optimal care of the injured patient.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0202: Establish a functional PIPS program by using the principles of TOPIC as well as American College of Surgeons (ACS), state, and institutional recommendations to identify and resolve deviations from standards of trauma care to reduce mortality and morbidity.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0203: Advocate for lifelong learning for all trauma care providers and program staff by providing resources for internal and external evidence-based education to promote improvement in trauma patient care and outcomes.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DOMAIN 2 - PROFESSIONAL ISSUES *continued*

Please use the scales below to evaluate each of the 9 job tasks within the *PROFESSIONAL ISSUES* domain.

0204: Facilitate interprofessional collaboration and communication within the trauma program, center, and system to maximize a patient's functional outcome.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0205: Foster and maintain relationships with prehospital agencies and referring facilities to improve quality of trauma care through effective feedback.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0206: Contribute to the development and implementation of an emergency preparedness plan by participating in institutional and regional training activities to respond to potential threats (e.g., mass casualty, active shooter, natural disasters).

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DOMAIN 2 - PROFESSIONAL ISSUES *continued*

Please use the scales below to evaluate each of the 9 job tasks within the *PROFESSIONAL ISSUES* domain.

0207: Support trauma staff across the continuum by identifying critical incident stress management and ethics resources to promote resiliency and prevent compassion fatigue.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0208: Facilitate interprofessional trauma education by utilizing internal and external resources and programs (e.g., ATLS, ATCN, TNCC, TCAR, PCAR) to maintain adherence to accreditation, designation, and verification requirements.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0209: Participate in local, regional, and national professional organizations and forums to promote and advocate for trauma patients, trauma systems, and trauma care provider professional development.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DOMAIN 3 - HUMAN RESOURCES

Please use the scales below to evaluate each of the 6 job tasks within the *HUMAN RESOURCES* domain.

0301: Lead trauma center staff through direct interaction and communication by using institutional resources to enhance and maintain operational functions.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0302: Measure (annually and ad hoc) overall performance of trauma program staff by using hospital- and department-specific tools to maintain compliance with job descriptions.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0303: Develop and monitor the orientation process for all trauma administrative and program staff to attain and maintain all organizational and trauma accreditation, designation, and verification requirements and job-specific functions.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DOMAIN 3 - HUMAN RESOURCES *continued*

Please use the scales below to evaluate each of the 6 job tasks within the *HUMAN RESOURCES* domain.

0304: Collaborate with departments across the continuum of trauma care to develop and maintain trauma-specific components of orientation and ongoing competencies.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0305: Optimize communication with staff to promote continued growth and professional development.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0306: Collaborate with departments and divisions across the continuum of trauma care to facilitate adherence to hospital standards, required licensure, certifications, education, and other metrics to meet trauma center requirements.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DOMAIN 4 - MANAGEMENT OF PHYSICAL RESOURCES, FINANCIAL RESOURCES, AND MEDICAL PROFESSIONALS

Please use the scales below to evaluate each of the 4 job tasks within the *MANAGEMENT OF PHYSICAL RESOURCES, FINANCIAL RESOURCES, AND MEDICAL PROFESSIONALS* domain.

0401: Facilitate the evaluation of medical equipment and other physical resource needs of the trauma system for standard and innovative technologies annually and through issues identified using the PI process to maintain optimal trauma care.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0402: Evaluate financial needs and make appropriate allocation adjustments to the trauma budget to maintain fiscal viability of the trauma program.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0403: Explore external funding resources to maximize opportunities in the areas of research, education, and prevention to increase awareness and enhance care.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0404: Develop and encourage interprofessional collaboration (e.g., physicians, nurses, EMS providers, referring facilities) by using leadership and management skills, institutional policies and procedures, and good communication to establish a functional trauma program.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DOMAIN 5 - PUBLIC RELATIONS AND MARKETING

Please use the scales below to evaluate each of the 4 job tasks within the *PUBLIC RELATIONS AND MARKETING* domain.

0501: Recognize and participate in trauma center marketing and public relations opportunities through electronic media and publications to demonstrate the added value of trauma center care (e.g., research, prevention, innovations, annual reports, education, patient stories).

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0502: Foster relationships with hospital marketing and public relations staff by collaborating to develop strategies for promoting the trauma program both internally and externally (e.g., public service announcements, social messaging, media events, expert interviews) to increase awareness of the public health benefits of organized trauma care.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0503: Develop a personal skill set through collaboration with the marketing department to appropriately represent the trauma center at public relations and marketing events and other open forums.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0504: Offer resources to area trauma program staff and providers by way of job shadowing, consultation, and follow-up to promote collegiality and strengthen the patient care relationship.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DOMAIN 6 - PROJECT MANAGEMENT

Please use the scales below to evaluate each of the 3 job tasks within the *PROJECT MANAGEMENT* domain.

0601: Develop and execute performance improvement projects through monitoring data trends, outcomes, and other metrics to improve trauma care across the continuum.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0602: Use the trauma registry and other data sources to align with local, regional, and national injury prevention partners for prioritizing initiatives to improve population-based health.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively

0603: Serve as a liaison to local, regional, state, and federal government entities to gain support of and collaboration with the trauma system.

Importance:

How important is this task in the role of a minimally competent Trauma Program Manager?

- Of No Importance
- Of Little Importance
- Moderately Important
- Substantially Important
- Extremely Important

Frequency:

How frequently does a minimally competent Trauma Program Manager use this task?

- Never
- Rarely
- Sometimes
- Often
- Repetitively



STN Trauma Program Manager (TPM)

DEMOGRAPHICS

1. What is your gender?

- Male
- Female

2. What is your age?

- Under 25
- 25 to 30
- 31 to 35
- 36 to 40
- 41 to 45
- 46 to 55
- 56 to 60
- 61 to 65
- Over 65

3. What is your Ethnicity?

- American Indian or Alaska Native
- Asian
- Black or African American
- Hispanic/Latino of any race
- Multi-racial
- Native Hawaiian or Other Pacific Islander
- White
- Prefer not to answer

4. In what region are you located?

5. What is your highest level of education?

- High School Diploma
- Associate's Degree
- Bachelor's Degree
- Master's Degree (MSN)
- Master's Degree (CRNP, CNS)
- Master's Degree (Nursing Administration)
- Master's Degree (MBA)
- Master's Degree (Other, Non-Nursing)
- MD
- JD
- PhD
- Other (please specify)

6. Please disclose your professional certifications. (Please select all that apply.)

- CCRN
- CFRN
- CNOR
- CEN
- CNRN
- PHRN
- RHIA
- RHIT
- Other (please specify)

7. How long have you been a member of STN?

- Less than 1 year
- 1 to 5 years
- 6 to 10 years
- 11 to 15 years
- 16 to 20 years
- More than 20 years

8. How long have you been a trauma nurse?

- Less than 2 years
- 2 to 3 years
- 4 to 5 years
- 6 to 10 years
- 11 to 15 years
- 16 to 20 years
- More than 20 years

9. How would you describe your current employment or study? (Please select all that apply.)

- Working full time (35 hours or more per week)
- Working part time (less than 35 hours per week)
- Full time student
- Part time student
- Unemployed
- Retired
- Other

10. What is your current role in trauma nursing? (Please select all that apply.)

- Academic Educator
- Trauma Program Administrator
- Hospital Administrator
- Clinical Nurse Specialist
- Nurse Practitioner
- Staff Nurse in ED
- Staff Nurse in ICU
- Staff Nurse Pre-hospital (ground/Aeromedical)
- Staff Nurse in OR
- Staff Nurse Rehabilitative
- Staff Nurse other
- Hospital-based Educator
- Injury Prevention Coordinator
- Research Nurse
- Trauma Coordinator
- Trauma Program Manager
- Trauma Registrar
- Consultant
- Other (please specify)

11. Which of the following best describes your work setting? (Please select all that apply.)

- Urban Hospital
- Suburban Hospital
- Rural Hospital
- Military Hospital
- University-affiliated Hospital
- Teaching Hospital
- Other (please specify)

12. Is your hospital a “critical access” hospital?

- Yes
- No

13. Which of the following best describes the size of your facility?

- Less than 100 beds
- 100-199 beds
- 200-299 beds
- 300-399 beds
- 400-500 beds
- More than 500 beds

14. Which of the following best describes your trauma center? (Please select all that apply.)

- ACS verified Level I
- ACS verified Level II
- ACS verified Level I pediatric
- ACS verified Level II pediatric
- ACS verified Level III
- ACS verified Level IV
- State/regional designated Level I
- State/regional designated Level II
- State/regional designated Level III
- State/regional designated Level IV
- Not currently verified or designated as a trauma center
- Other (please specify)

15. What is your annual income from employment as a TPM?

- Less than \$25,000
- \$25,000-\$49,999
- \$50,000-\$74,999
- \$75,000-\$99,999
- \$100,000-\$125,000
- More than \$125,000

16. What is your annual household income?

- Less than \$50,000
- \$50,000-\$99,999
- \$100,000-\$149,999
- \$150,000-\$199,999
- More than \$200,000

17. How many trauma team members do you supervise?

- None
- 1 to 5
- 6 to 10
- More than 10



STN Trauma Program Manager (TPM)

THANK YOU

STN and Castle Worldwide, Inc. thank you for taking the time to complete this survey. Your input is critical to the development of the revised frameworks that will guide training programs and professional development.

Clicking "DONE" will finalize your responses and redirect you to the STN website.

Q1 Please enter the access code from your survey invitation email:

Answered: 1,028 Skipped: 0

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278	182143	2/5/2018 2:39 PM
279	186253	2/5/2018 2:28 PM
280	183540	2/5/2018 2:27 PM
281	184474	2/5/2018 2:24 PM

Appendix F: TPM Validation Survey Summary

282	182562	2/5/2018 2:18 PM
283	180418	2/5/2018 2:16 PM
284	186237	2/5/2018 2:12 PM
285	180914	2/5/2018 2:09 PM
286	182025	2/5/2018 2:05 PM
287	181434	2/5/2018 2:04 PM
288	184441	2/5/2018 2:04 PM
289	180589	2/5/2018 2:03 PM
290	185835	2/5/2018 2:02 PM
291	185997	2/5/2018 2:00 PM
292	18005	2/5/2018 1:58 PM
293	181422	2/5/2018 1:57 PM
294	: 181219	2/5/2018 1:57 PM
295	181571	2/5/2018 1:55 PM
296	181837	2/5/2018 1:52 PM
297	186309	2/5/2018 1:46 PM
298	180231	2/5/2018 1:42 PM
299	181922	2/5/2018 1:42 PM
300	182652	2/5/2018 1:42 PM
301	183128	2/5/2018 1:40 PM
302	180411	2/5/2018 1:39 PM
303	184127	2/5/2018 1:37 PM
304	185521	2/5/2018 1:33 PM
305	: 186364	2/5/2018 1:33 PM
306	180262	2/5/2018 1:32 PM
307	180237	2/5/2018 1:29 PM
308	184798	2/5/2018 1:28 PM
309	182060	2/5/2018 1:28 PM
310	186965	2/5/2018 1:26 PM
311	184071	2/5/2018 1:25 PM
312	181200	2/5/2018 1:23 PM
313	182253	2/5/2018 1:22 PM
314	180003	2/5/2018 1:22 PM
315	182814	2/5/2018 1:20 PM
316	nam9337@msn.com	2/5/2018 1:17 PM
317	185781	2/5/2018 1:16 PM
318	183019	2/5/2018 1:16 PM
319	182017	2/5/2018 1:15 PM
320	182413	2/5/2018 1:14 PM
321	181029	2/5/2018 1:14 PM
322	182750	2/5/2018 1:13 PM

Appendix F: TPM Validation Survey Summary

323	182997	2/5/2018 1:11 PM
324	184790	2/5/2018 1:11 PM
325	185464	2/5/2018 1:10 PM
326	181611	2/5/2018 1:10 PM
327	180432	2/5/2018 1:09 PM
328	182878	2/5/2018 1:08 PM
329	180719	2/5/2018 1:07 PM
330	184860	2/5/2018 1:07 PM
331	186593	2/5/2018 1:06 PM
332	184826	2/5/2018 1:06 PM
333	181997	2/5/2018 1:06 PM
334	181028	2/5/2018 1:05 PM
335	181799	2/5/2018 1:04 PM
336	180121	2/5/2018 1:04 PM
337	180531	2/5/2018 1:04 PM
338	180207	2/5/2018 1:04 PM
339	180567	2/5/2018 1:04 PM
340	181310	2/5/2018 1:04 PM
341	182397	2/5/2018 1:03 PM
342	185028	2/5/2018 10:02 AM
343	184847	2/5/2018 9:47 AM
344	186850	2/5/2018 8:44 AM
345	181446	2/5/2018 6:21 AM
346	184330	2/4/2018 10:15 PM
347	186706	2/4/2018 1:12 PM
348	180258	2/4/2018 5:39 AM
349	183996	2/3/2018 9:14 PM
350	182528	2/3/2018 11:43 AM
351	181163	2/3/2018 1:11 AM
352	183948	2/2/2018 2:02 PM
353	186938	2/2/2018 12:19 PM
354	183165	2/2/2018 10:44 AM
355	182068	2/2/2018 10:14 AM
356	180675	2/2/2018 7:37 AM
357	186314	2/2/2018 12:28 AM
358	183185	2/1/2018 5:55 PM
359	182479	2/1/2018 5:12 PM
360	182804	2/1/2018 4:47 PM
361	180614	2/1/2018 4:19 PM
362	184702	2/1/2018 2:53 PM
363	181587	2/1/2018 2:48 PM

Appendix F: TPM Validation Survey Summary

364	182722	2/1/2018 12:23 PM
365	182463	2/1/2018 12:20 PM
366	186577	2/1/2018 11:13 AM
367	184398	2/1/2018 10:17 AM
368	183298	2/1/2018 9:01 AM
369	180876	1/31/2018 11:13 PM
370	182245	1/31/2018 10:45 PM
371	185145	1/31/2018 10:03 PM
372	181372	1/31/2018 9:00 PM
373	182541	1/31/2018 8:29 PM
374	182630	1/31/2018 7:17 PM
375	182455	1/31/2018 5:56 PM
376	182325	1/31/2018 4:10 PM
377	180821	1/31/2018 3:27 PM
378	181052	1/31/2018 3:25 PM
379	180274	1/31/2018 3:09 PM
380	181542	1/31/2018 2:44 PM
381	186611	1/31/2018 2:44 PM
382	101284	1/31/2018 2:27 PM
383	184457	1/31/2018 1:03 PM
384	180847	1/31/2018 12:39 PM
385	181226	1/31/2018 11:26 AM
386	181758	1/31/2018 9:45 AM
387	1808866	1/31/2018 9:15 AM
388	180106	1/31/2018 8:59 AM
389	181966	1/31/2018 7:19 AM
390	180879	1/31/2018 6:20 AM
391	183940	1/31/2018 4:01 AM
392	183425	1/31/2018 2:21 AM
393	186344	1/30/2018 11:00 PM
394	184397	1/30/2018 9:55 PM
395	181623	1/30/2018 7:44 PM
396	182487	1/30/2018 5:26 PM
397	180494	1/30/2018 5:20 PM
398	184246	1/30/2018 5:12 PM
399	180735	1/30/2018 5:01 PM
400	180709	1/30/2018 4:51 PM
401	186146	1/30/2018 4:17 PM
402	183810	1/30/2018 3:06 PM
403	185716	1/30/2018 2:45 PM
404	180721	1/30/2018 2:28 PM

Appendix F: TPM Validation Survey Summary

405	180784	1/30/2018 2:25 PM
406	180766	1/30/2018 2:00 PM
407	181527	1/30/2018 1:46 PM
408	182260	1/30/2018 12:53 PM
409	181112	1/30/2018 12:51 PM
410	184699	1/30/2018 11:58 AM
411	181457	1/30/2018 11:35 AM
412	186852	1/30/2018 11:34 AM
413	181329	1/30/2018 10:46 AM
414	182109	1/30/2018 10:23 AM
415	181181	1/30/2018 10:00 AM
416	181132	1/30/2018 10:00 AM
417	180297	1/30/2018 9:59 AM
418	181385	1/30/2018 9:41 AM
419	182970	1/30/2018 9:09 AM
420	180600	1/30/2018 9:03 AM
421	181942	1/30/2018 9:03 AM
422	182953	1/30/2018 9:02 AM
423	182612	1/30/2018 8:37 AM
424	181177	1/30/2018 8:33 AM
425	181600	1/30/2018 8:33 AM
426	180928	1/30/2018 8:14 AM
427	183558	1/30/2018 7:24 AM
428	182742	1/30/2018 6:03 AM
429	182287	1/30/2018 4:54 AM
430	182510	1/30/2018 3:05 AM
431	180650	1/30/2018 1:13 AM
432	180290	1/29/2018 11:46 PM
433	182908	1/29/2018 11:11 PM
434	183505	1/29/2018 11:09 PM
435	183472	1/29/2018 10:45 PM
436	182938	1/29/2018 10:44 PM
437	186948	1/29/2018 10:13 PM
438	185273	1/29/2018 10:07 PM
439	183136	1/29/2018 9:47 PM
440	182724	1/29/2018 9:27 PM
441	183572	1/29/2018 9:26 PM
442	181011	1/29/2018 9:22 PM
443	180726	1/29/2018 8:11 PM
444	186728	1/29/2018 7:53 PM
445	183982	1/29/2018 7:52 PM

Appendix F: TPM Validation Survey Summary

446	182605	1/29/2018 7:48 PM
447	182236	1/29/2018 7:37 PM
448	183961	1/29/2018 7:14 PM
449	180912	1/29/2018 7:10 PM
450	181043	1/29/2018 6:42 PM
451	183482	1/29/2018 6:30 PM
452	183081	1/29/2018 6:03 PM
453	181264	1/29/2018 6:01 PM
454	184161	1/29/2018 5:55 PM
455	182220	1/29/2018 5:53 PM
456	184019	1/29/2018 5:44 PM
457	185725	1/29/2018 5:40 PM
458	181498	1/29/2018 5:24 PM
459	180597	1/29/2018 5:10 PM
460	181490	1/29/2018 4:52 PM
461	180681	1/29/2018 4:46 PM
462	186010	1/29/2018 4:44 PM
463	180472	1/29/2018 4:31 PM
464	183047	1/29/2018 4:29 PM
465	184195	1/29/2018 4:27 PM
466	181199	1/29/2018 4:19 PM
467	186776	1/29/2018 4:19 PM
468	182790	1/29/2018 4:12 PM
469	182808	1/29/2018 4:03 PM
470	184143	1/29/2018 4:01 PM
471	186925	1/29/2018 3:59 PM
472	181513	1/29/2018 3:54 PM
473	185586	1/29/2018 3:53 PM
474	181487	1/29/2018 3:50 PM
475	180852	1/29/2018 3:42 PM
476	182734	1/29/2018 3:36 PM
477	180332	1/29/2018 3:36 PM
478	184092	1/29/2018 3:29 PM
479	182680	1/29/2018 3:29 PM
480	180661	1/29/2018 3:13 PM
481	181076	1/29/2018 3:10 PM
482	183494	1/29/2018 3:08 PM
483	180556	1/29/2018 3:08 PM
484	180424	1/29/2018 3:08 PM
485	184704	1/29/2018 3:07 PM
486	180584	1/29/2018 3:02 PM

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487	181164	1/29/2018 3:02 PM
488	184941	1/29/2018 2:56 PM
489	182971	1/29/2018 2:55 PM
490	182004	1/29/2018 2:55 PM
491	180826	1/29/2018 2:54 PM
492	180878	1/29/2018 2:49 PM
493	180654	1/29/2018 2:49 PM
494	181577	1/29/2018 2:45 PM
495	181317	1/29/2018 2:44 PM
496	186222	1/29/2018 2:44 PM
497	180474	1/29/2018 2:39 PM
498	186506	1/29/2018 2:38 PM
499	186676	1/29/2018 2:36 PM
500	182737	1/29/2018 2:34 PM
501	182294	1/29/2018 2:30 PM
502	180213	1/29/2018 2:28 PM
503	181137	1/29/2018 2:27 PM
504	181213	1/29/2018 2:26 PM
505	185743	1/29/2018 2:25 PM
506	180306	1/29/2018 2:23 PM
507	183826	1/29/2018 2:22 PM
508	180633	1/29/2018 2:20 PM
509	181898	1/29/2018 2:15 PM
510	180883	1/29/2018 2:12 PM
511	180317	1/29/2018 2:12 PM
512	183176	1/29/2018 2:12 PM
513	180397	1/29/2018 2:09 PM
514	183242	1/29/2018 2:07 PM
515	182637	1/29/2018 2:00 PM
516	185747	1/29/2018 1:56 PM
517	182332	1/29/2018 1:55 PM
518	181318	1/29/2018 1:53 PM
519	182303	1/29/2018 1:49 PM
520	184683	1/29/2018 1:48 PM
521	183052	1/29/2018 1:43 PM
522	180737	1/29/2018 1:41 PM
523	181780	1/29/2018 1:39 PM
524	182003	1/29/2018 1:38 PM
525	182411	1/29/2018 1:38 PM
526	181058	1/29/2018 1:37 PM
527	181483	1/29/2018 1:33 PM

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528	186778	1/29/2018 1:33 PM
529	181252	1/29/2018 1:30 PM
530	186626	1/29/2018 1:28 PM
531	180992	1/29/2018 1:27 PM
532	180578	1/29/2018 1:26 PM
533	183146	1/29/2018 1:25 PM
534	181627	1/29/2018 1:24 PM
535	183169	1/29/2018 1:23 PM
536	183219	1/29/2018 1:22 PM
537	183144	1/29/2018 1:22 PM
538	181793	1/29/2018 1:21 PM
539	182117	1/29/2018 1:20 PM
540	181182	1/29/2018 1:20 PM
541	182352	1/29/2018 1:19 PM
542	181345	1/29/2018 1:16 PM
543	184477	1/29/2018 1:16 PM
544	zachary.landiers@genesys.org	1/29/2018 1:15 PM
545	184928	1/29/2018 1:15 PM
546	182699	1/29/2018 1:15 PM
547	181784	1/29/2018 1:15 PM
548	186859	1/29/2018 1:15 PM
549	180643	1/29/2018 1:14 PM
550	: 180997	1/29/2018 1:14 PM
551	181639	1/29/2018 1:13 PM
552	183901	1/29/2018 1:13 PM
553	180728	1/29/2018 1:12 PM
554	184717	1/29/2018 1:11 PM
555	182550	1/29/2018 1:10 PM
556	181375	1/29/2018 1:10 PM
557	183037	1/29/2018 1:09 PM
558	187039	1/29/2018 1:09 PM
559	182498	1/29/2018 1:09 PM
560	185990	1/29/2018 1:09 PM
561	181296	1/29/2018 1:09 PM
562	181119	1/29/2018 1:09 PM
563	181561	1/29/2018 1:08 PM
564	186746	1/29/2018 1:08 PM
565	180534	1/29/2018 1:08 PM
566	182153	1/29/2018 1:07 PM
567	181282	1/29/2018 1:07 PM
568	180311	1/29/2018 1:06 PM

Appendix F: TPM Validation Survey Summary

569	185084	1/29/2018 1:06 PM
570	180399	1/29/2018 1:06 PM
571	181712	1/29/2018 1:05 PM
572	181297	1/29/2018 1:05 PM
573	185885	1/29/2018 1:05 PM
574	181897	1/29/2018 1:04 PM
575	181886	1/29/2018 1:04 PM
576	183539	1/29/2018 1:04 PM
577	180337	1/29/2018 1:04 PM
578	185674	1/29/2018 1:03 PM
579	183115	1/29/2018 1:03 PM
580	184694	1/29/2018 1:03 PM
581	180815	1/29/2018 1:03 PM
582	182286	1/29/2018 1:03 PM
583	186159	1/29/2018 1:03 PM
584	181896	1/29/2018 1:03 PM
585	185155	1/29/2018 1:03 PM
586	183332	1/29/2018 9:45 AM
587	183695	1/29/2018 8:33 AM
588	182873	1/29/2018 7:08 AM
589	180240	1/29/2018 12:20 AM
590	185729	1/28/2018 9:10 PM
591	183207	1/28/2018 12:40 PM
592	181910	1/28/2018 12:38 PM
593	184187	1/28/2018 10:08 AM
594	Awhite@Eehealth.org	1/28/2018 9:01 AM
595	182264	1/27/2018 4:30 PM
596	pixie.er.m@gmail.com	1/27/2018 3:37 PM
597	182064	1/27/2018 2:09 PM
598	181391	1/27/2018 2:05 PM
599	180582	1/27/2018 3:27 AM
600	181642	1/27/2018 3:19 AM
601	184316	1/26/2018 10:02 PM
602	181518	1/26/2018 6:01 PM
603	180146	1/26/2018 5:24 PM
604	186768	1/26/2018 4:40 PM
605	180179	1/26/2018 4:33 PM
606	182364	1/26/2018 2:29 PM
607	182761	1/26/2018 1:20 PM
608	181585	1/26/2018 1:18 PM
609	181695	1/26/2018 12:42 PM

Appendix F: TPM Validation Survey Summary

610	186990	1/26/2018 12:40 PM
611	182711	1/26/2018 11:57 AM
612	181507	1/26/2018 10:59 AM
613	180165	1/26/2018 9:01 AM
614	182432	1/26/2018 7:20 AM
615	181259	1/26/2018 7:13 AM
616	182752	1/26/2018 1:27 AM
617	182173	1/25/2018 9:45 PM
618	187001	1/25/2018 9:15 PM
619	180151	1/25/2018 5:52 PM
620	181152	1/25/2018 3:55 PM
621	181482	1/25/2018 3:42 PM
622	183859	1/25/2018 2:55 PM
623	180288	1/25/2018 2:50 PM
624	185627	1/25/2018 2:28 PM
625	181125	1/25/2018 2:07 PM
626	180801	1/25/2018 2:02 PM
627	183613	1/25/2018 1:22 PM
628	183465	1/25/2018 12:29 PM
629	182269	1/25/2018 12:19 PM
630	182845	1/25/2018 10:51 AM
631	183351	1/25/2018 10:43 AM
632	180273	1/25/2018 10:36 AM
633	182504	1/25/2018 10:10 AM
634	182906	1/25/2018 10:04 AM
635	182292	1/25/2018 9:57 AM
636	181986	1/25/2018 9:32 AM
637	180280	1/25/2018 9:01 AM
638	185392	1/25/2018 7:42 AM
639	185283	1/25/2018 7:31 AM
640	181481	1/25/2018 6:42 AM
641	182407	1/25/2018 6:17 AM
642	183882	1/25/2018 5:13 AM
643	181141	1/25/2018 12:00 AM
644	182111	1/24/2018 11:17 PM
645	186865	1/24/2018 9:07 PM
646	182490	1/24/2018 8:41 PM
647	180676	1/24/2018 8:35 PM
648	185977	1/24/2018 8:26 PM
649	180967	1/24/2018 7:50 PM
650	181255	1/24/2018 7:14 PM

Appendix F: TPM Validation Survey Summary

651	183024	1/24/2018 7:08 PM
652	180963	1/24/2018 6:28 PM
653	183783	1/24/2018 5:23 PM
654	182889	1/24/2018 4:47 PM
655	185845	1/24/2018 4:25 PM
656	01505	1/24/2018 3:10 PM
657	186919	1/24/2018 3:10 PM
658	181348	1/24/2018 2:25 PM
659	186487	1/24/2018 2:24 PM
660	182284	1/24/2018 2:05 PM
661	184548	1/24/2018 1:13 PM
662	182566	1/24/2018 1:07 PM
663	182418	1/24/2018 1:04 PM
664	183764	1/24/2018 12:02 PM
665	181206	1/24/2018 9:45 AM
666	180116	1/24/2018 9:42 AM
667	183742	1/24/2018 9:38 AM
668	183562	1/24/2018 9:24 AM
669	182311	1/24/2018 8:55 AM
670	184325	1/24/2018 5:17 AM
671	182697	1/24/2018 12:33 AM
672	184688	1/23/2018 11:39 PM
673	184287	1/23/2018 11:39 PM
674	185980	1/23/2018 10:20 PM
675	185206	1/23/2018 9:57 PM
676	185809	1/23/2018 9:46 PM
677	183601	1/23/2018 8:56 PM
678	183349	1/23/2018 8:50 PM
679	182653	1/23/2018 8:31 PM
680	184055	1/23/2018 8:27 PM
681	182370	1/23/2018 7:33 PM
682	181842	1/23/2018 7:28 PM
683	186909	1/23/2018 7:24 PM
684	183073	1/23/2018 6:06 PM
685	181502	1/23/2018 5:28 PM
686	182607	1/23/2018 5:24 PM
687	183043	1/23/2018 5:18 PM
688	182076	1/23/2018 4:28 PM
689	182670	1/23/2018 4:24 PM
690	180155	1/23/2018 4:16 PM
691	184410	1/23/2018 3:56 PM

Appendix F: TPM Validation Survey Summary

692	184738	1/23/2018 3:46 PM
693	182819	1/23/2018 3:37 PM
694	181946	1/23/2018 2:31 PM
695	181844	1/23/2018 2:24 PM
696	186584	1/23/2018 2:24 PM
697	182265	1/23/2018 2:16 PM
698	182464	1/23/2018 2:10 PM
699	186286	1/23/2018 1:58 PM
700	181810	1/23/2018 1:51 PM
701	181190	1/23/2018 1:24 PM
702	183012	1/23/2018 12:59 PM
703	181884	1/23/2018 12:44 PM
704	180448	1/23/2018 12:44 PM
705	181710	1/23/2018 12:44 PM
706	182732	1/23/2018 12:15 PM
707	185251	1/23/2018 12:08 PM
708	186761	1/23/2018 12:04 PM
709	181880	1/23/2018 12:00 PM
710	184486	1/23/2018 11:41 AM
711	186912	1/23/2018 11:38 AM
712	181829	1/23/2018 11:33 AM
713	181890	1/23/2018 11:28 AM
714	182227	1/23/2018 11:26 AM
715	181556	1/23/2018 11:05 AM
716	180560	1/23/2018 10:55 AM
717	181701	1/23/2018 10:55 AM
718	181053	1/23/2018 10:54 AM
719	181279	1/23/2018 10:42 AM
720	182996	1/23/2018 10:32 AM
721	183041	1/23/2018 10:30 AM
722	184839	1/23/2018 10:28 AM
723	182501	1/23/2018 10:15 AM
724	186737	1/23/2018 10:12 AM
725	18138	1/23/2018 10:03 AM
726	182529	1/23/2018 10:00 AM
727	184734	1/23/2018 9:59 AM
728	181721	1/23/2018 9:55 AM
729	182918	1/23/2018 9:52 AM
730	180882	1/23/2018 9:50 AM
731	183163	1/23/2018 9:46 AM
732	181520	1/23/2018 9:44 AM

Appendix F: TPM Validation Survey Summary

733	180695	1/23/2018 9:39 AM
734	181843	1/23/2018 9:38 AM
735	185681	1/23/2018 9:38 AM
736	183673	1/23/2018 9:28 AM
737	186903	1/23/2018 9:26 AM
738	181198	1/23/2018 9:23 AM
739	181229	1/23/2018 9:21 AM
740	185138	1/23/2018 9:18 AM
741	185842	1/23/2018 9:11 AM
742	185154	1/23/2018 9:07 AM
743	180127	1/23/2018 9:06 AM
744	180763	1/23/2018 9:04 AM
745	184522	1/23/2018 8:52 AM
746	182145	1/23/2018 8:45 AM
747	180331	1/23/2018 8:44 AM
748	180713	1/23/2018 8:38 AM
749	183919	1/23/2018 8:29 AM
750	180303	1/23/2018 8:26 AM
751	180575	1/23/2018 7:52 AM
752	181804	1/23/2018 7:47 AM
753	182928	1/23/2018 7:45 AM
754	183092	1/23/2018 7:43 AM
755	184930	1/23/2018 7:40 AM
756	182027	1/23/2018 7:39 AM
757	181907	1/23/2018 7:39 AM
758	180356	1/23/2018 7:36 AM
759	183581	1/23/2018 7:32 AM
760	182792	1/23/2018 7:29 AM
761	186604	1/23/2018 7:18 AM
762	18012	1/23/2018 7:16 AM
763	180209	1/23/2018 6:58 AM
764	180987	1/23/2018 6:57 AM
765	186888	1/23/2018 6:47 AM
766	180241	1/23/2018 6:32 AM
767	181675	1/23/2018 6:25 AM
768	182127	1/23/2018 6:24 AM
769	186004	1/23/2018 5:54 AM
770	180465	1/23/2018 5:12 AM
771	181035	1/23/2018 4:54 AM
772	182779	1/23/2018 4:43 AM
773	182511	1/23/2018 1:50 AM

Appendix F: TPM Validation Survey Summary

774	181586	1/22/2018 11:54 PM
775	184077	1/22/2018 11:46 PM
776	182018	1/22/2018 11:19 PM
777	184440	1/22/2018 11:03 PM
778	180313	1/22/2018 10:49 PM
779	185908	1/22/2018 10:02 PM
780	181404	1/22/2018 10:01 PM
781	186839	1/22/2018 9:47 PM
782	181134	1/22/2018 9:40 PM
783	182306	1/22/2018 9:27 PM
784	183713	1/22/2018 9:24 PM
785	182056	1/22/2018 9:11 PM
786	186755	1/22/2018 9:08 PM
787	182785	1/22/2018 9:02 PM
788	182099	1/22/2018 9:00 PM
789	180664	1/22/2018 8:57 PM
790	183172	1/22/2018 8:44 PM
791	182597	1/22/2018 8:39 PM
792	184806	1/22/2018 8:39 PM
793	183816	1/22/2018 8:29 PM
794	182466	1/22/2018 8:27 PM
795	graciel_lenon@yahoo.com	1/22/2018 8:14 PM
796	183063	1/22/2018 8:13 PM
797	186774	1/22/2018 8:01 PM
798	181030	1/22/2018 7:29 PM
799	183149	1/22/2018 7:24 PM
800	181921	1/22/2018 7:17 PM
801	183104	1/22/2018 7:13 PM
802	180743	1/22/2018 7:10 PM
803	180710	1/22/2018 7:06 PM
804	183566	1/22/2018 6:57 PM
805	184015	1/22/2018 6:49 PM
806	182704	1/22/2018 6:44 PM
807	181473	1/22/2018 6:39 PM
808	181591	1/22/2018 6:36 PM
809	183850	1/22/2018 6:34 PM
810	183537	1/22/2018 6:30 PM
811	184540	1/22/2018 6:19 PM
812	183112	1/22/2018 6:14 PM
813	182512	1/22/2018 5:59 PM
814	183943	1/22/2018 5:50 PM

Appendix F: TPM Validation Survey Summary

815	181403	1/22/2018 5:47 PM
816	180451	1/22/2018 5:46 PM
817	180542	1/22/2018 5:44 PM
818	183096	1/22/2018 5:41 PM
819	: 181466	1/22/2018 5:37 PM
820	186067	1/22/2018 5:31 PM
821	181981	1/22/2018 5:25 PM
822	182981	1/22/2018 5:25 PM
823	182995	1/22/2018 5:09 PM
824	185519	1/22/2018 5:09 PM
825	182933	1/22/2018 5:07 PM
826	181202	1/22/2018 5:04 PM
827	180506	1/22/2018 5:04 PM
828	186325	1/22/2018 5:01 PM
829	183607	1/22/2018 4:55 PM
830	180797	1/22/2018 4:55 PM
831	181973	1/22/2018 4:49 PM
832	180197	1/22/2018 4:38 PM
833	180850	1/22/2018 4:37 PM
834	182513	1/22/2018 4:36 PM
835	180152	1/22/2018 4:30 PM
836	183133	1/22/2018 4:29 PM
837	180511	1/22/2018 4:28 PM
838	181625	1/22/2018 4:28 PM
839	180996	1/22/2018 4:22 PM
840	180430	1/22/2018 4:20 PM
841	180353	1/22/2018 4:19 PM
842	185843	1/22/2018 4:15 PM
843	185094	1/22/2018 4:15 PM
844	182238	1/22/2018 4:13 PM
845	181733	1/22/2018 4:12 PM
846	186535	1/22/2018 4:05 PM
847	182990	1/22/2018 4:04 PM
848	180669	1/22/2018 4:03 PM
849	186076	1/22/2018 4:00 PM
850	180900	1/22/2018 3:54 PM
851	180969	1/22/2018 3:54 PM
852	182090	1/22/2018 3:52 PM
853	182883	1/22/2018 3:49 PM
854	180293	1/22/2018 3:48 PM
855	180278	1/22/2018 3:48 PM

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856	181637	1/22/2018 3:47 PM
857	183139	1/22/2018 3:44 PM
858	186690	1/22/2018 3:35 PM
859	181667	1/22/2018 3:32 PM
860	185676	1/22/2018 3:30 PM
861	182870	1/22/2018 3:28 PM
862	182503	1/22/2018 3:28 PM
863	183051	1/22/2018 3:20 PM
864	185938	1/22/2018 3:15 PM
865	180648	1/22/2018 3:14 PM
866	183420	1/22/2018 3:08 PM
867	185660	1/22/2018 3:01 PM
868	181970	1/22/2018 3:00 PM
869	182400	1/22/2018 3:00 PM
870	181864	1/22/2018 2:57 PM
871	182659	1/22/2018 2:56 PM
872	180557	1/22/2018 2:53 PM
873	186151	1/22/2018 2:46 PM
874	182797	1/22/2018 2:40 PM
875	182312	1/22/2018 2:40 PM
876	184505	1/22/2018 2:40 PM
877	180995	1/22/2018 2:39 PM
878	182925	1/22/2018 2:39 PM
879	180267	1/22/2018 2:37 PM
880	182346	1/22/2018 2:36 PM
881	181865	1/22/2018 2:35 PM
882	180483	1/22/2018 2:34 PM
883	184475	1/22/2018 2:33 PM
884	183074	1/22/2018 2:32 PM
885	185270	1/22/2018 2:32 PM
886	185485	1/22/2018 2:31 PM
887	181110	1/22/2018 2:31 PM
888	181002	1/22/2018 2:31 PM
889	184266	1/22/2018 2:30 PM
890	185237	1/22/2018 2:29 PM
891	180144	1/22/2018 2:28 PM
892	182200	1/22/2018 2:27 PM
893	jdlaudick@mercy.com	1/22/2018 2:24 PM
894	180530	1/22/2018 2:23 PM
895	185552	1/22/2018 2:22 PM
896	180946	1/22/2018 2:21 PM

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897	181640	1/22/2018 2:17 PM
898	180461	1/22/2018 2:16 PM
899	182576	1/22/2018 2:15 PM
900	185561	1/22/2018 2:14 PM
901	183563	1/22/2018 2:14 PM
902	182139	1/22/2018 2:10 PM
903	182415	1/22/2018 2:10 PM
904	182493	1/22/2018 2:10 PM
905	185969	1/22/2018 2:08 PM
906	181342	1/22/2018 2:03 PM
907	181779	1/22/2018 1:59 PM
908	182964	1/22/2018 1:58 PM
909	182402	1/22/2018 1:58 PM
910	186840	1/22/2018 1:58 PM
911	180244	1/22/2018 1:57 PM
912	180533	1/22/2018 1:57 PM
913	180873	1/22/2018 1:56 PM
914	180750	1/22/2018 1:54 PM
915	181176	1/22/2018 1:53 PM
916	182861	1/22/2018 1:52 PM
917	180192	1/22/2018 1:50 PM
918	185916	1/22/2018 1:50 PM
919	185860	1/22/2018 1:48 PM
920	187057	1/22/2018 1:48 PM
921	184587	1/22/2018 1:48 PM
922	180944	1/22/2018 1:47 PM
923	181205	1/22/2018 1:46 PM
924	183602	1/22/2018 1:45 PM
925	181113	1/22/2018 1:44 PM
926	182197	1/22/2018 1:43 PM
927	181386	1/22/2018 1:43 PM
928	181191	1/22/2018 1:41 PM
929	181964	1/22/2018 1:40 PM
930	182788	1/22/2018 1:40 PM
931	185277	1/22/2018 1:39 PM
932	180348	1/22/2018 1:39 PM
933	180950	1/22/2018 1:39 PM
934	181965	1/22/2018 1:39 PM
935	181331	1/22/2018 1:38 PM
936	180137	1/22/2018 1:38 PM
937	185116	1/22/2018 1:36 PM

Appendix F: TPM Validation Survey Summary

938	185056	1/22/2018 1:36 PM
939	181881	1/22/2018 1:36 PM
940	182275	1/22/2018 1:36 PM
941	181469	1/22/2018 1:34 PM
942	181356	1/22/2018 1:34 PM
943	186666	1/22/2018 1:34 PM
944	183769	1/22/2018 1:33 PM
945	181461	1/22/2018 1:33 PM
946	180631	1/22/2018 1:33 PM
947	181974	1/22/2018 1:33 PM
948	182472	1/22/2018 1:33 PM
949	186108	1/22/2018 1:33 PM
950	181284	1/22/2018 1:33 PM
951	182348	1/22/2018 1:33 PM
952	180377	1/22/2018 1:33 PM
953	184274	1/22/2018 1:32 PM
954	180217	1/22/2018 1:32 PM
955	182428	1/22/2018 1:30 PM
956	182916	1/22/2018 1:30 PM
957	182720	1/22/2018 1:29 PM
958	180875	1/22/2018 1:29 PM
959	180898	1/22/2018 1:29 PM
960	180224	1/22/2018 1:27 PM
961	181773	1/22/2018 1:26 PM
962	181233	1/22/2018 1:26 PM
963	182671	1/22/2018 1:25 PM
964	181593	1/22/2018 1:25 PM
965	181651	1/22/2018 1:25 PM
966	180515	1/22/2018 1:24 PM
967	183068	1/22/2018 1:23 PM
968	182629	1/22/2018 1:23 PM
969	183173	1/22/2018 1:23 PM
970	180698	1/22/2018 1:23 PM
971	180890	1/22/2018 1:22 PM
972	184166	1/22/2018 1:21 PM
973	: 185245	1/22/2018 1:21 PM
974	182801	1/22/2018 1:21 PM
975	181915	1/22/2018 1:20 PM
976	183508	1/22/2018 1:20 PM
977	180394	1/22/2018 1:19 PM
978	180198	1/22/2018 1:19 PM

Appendix F: TPM Validation Survey Summary

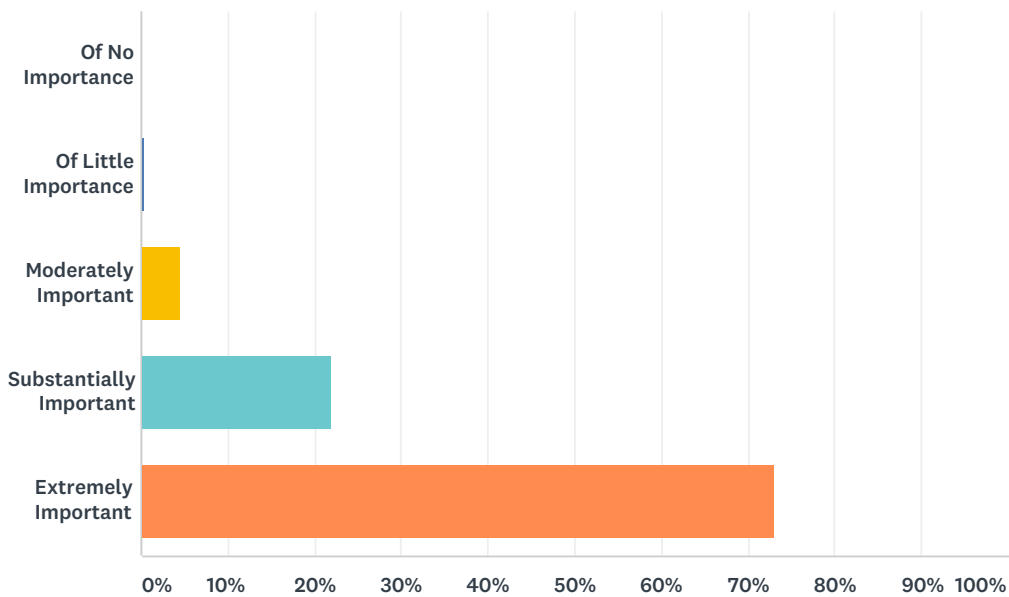
979	182654	1/22/2018 1:19 PM
980	182957	1/22/2018 1:19 PM
981	182969	1/22/2018 1:18 PM
982	180644	1/22/2018 1:18 PM
983	185298	1/22/2018 1:16 PM
984	181426	1/22/2018 1:16 PM
985	181094	1/22/2018 1:15 PM
986	185914	1/22/2018 1:14 PM
987	182686	1/22/2018 1:14 PM
988	181763	1/22/2018 1:13 PM
989	182216	1/22/2018 1:12 PM
990	180305	1/22/2018 1:12 PM
991	181628	1/22/2018 1:12 PM
992	187029	1/22/2018 1:11 PM
993	182204	1/22/2018 1:11 PM
994	186242	1/22/2018 1:11 PM
995	182740	1/22/2018 1:11 PM
996	181159	1/22/2018 1:11 PM
997	182714	1/22/2018 1:10 PM
998	182152	1/22/2018 1:10 PM
999	181086	1/22/2018 1:09 PM
1000	181647	1/22/2018 1:09 PM
1001	181742	1/22/2018 1:09 PM
1002	180336	1/22/2018 1:08 PM
1003	181652	1/22/2018 1:08 PM
1004	181169	1/22/2018 1:08 PM
1005	181082	1/22/2018 1:07 PM
1006	182459	1/22/2018 1:07 PM
1007	180895	1/22/2018 1:07 PM
1008	182574	1/22/2018 1:07 PM
1009	182272	1/22/2018 1:07 PM
1010	180590	1/22/2018 1:07 PM
1011	181650	1/22/2018 1:06 PM
1012	181232	1/22/2018 1:05 PM
1013	181409	1/22/2018 1:05 PM
1014	1080666	1/22/2018 1:05 PM
1015	182051	1/22/2018 1:05 PM
1016	180612	1/22/2018 1:04 PM
1017	185361	1/22/2018 1:04 PM
1018	182235	1/22/2018 1:04 PM
1019	185593	1/22/2018 1:04 PM

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1020	184878	1/22/2018 1:03 PM
1021	182684	1/22/2018 1:03 PM
1022	182363	1/22/2018 1:03 PM
1023	185194	1/22/2018 1:03 PM
1024	184823	1/22/2018 1:03 PM
1025	180246	1/22/2018 1:03 PM
1026	181243	1/22/2018 1:03 PM
1027	183038	1/22/2018 1:03 PM
1028	182695	1/22/2018 1:03 PM

Q2 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 621 Skipped: 407

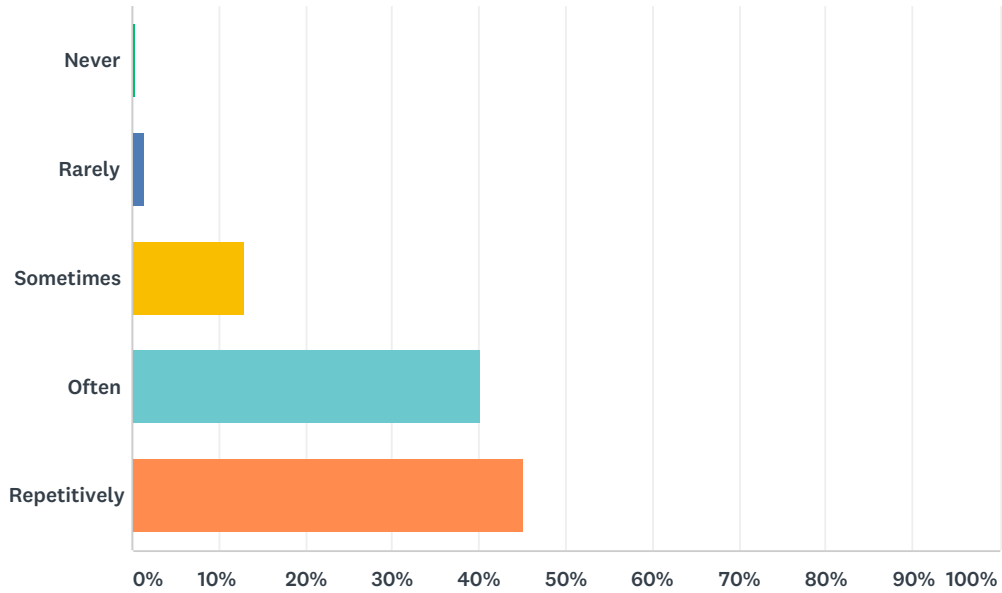


ANSWER CHOICES	RESPONSES
Of No Importance	0.16% 1
Of Little Importance	0.32% 2
Moderately Important	4.51% 28
Substantially Important	21.90% 136
Extremely Important	73.11% 454
TOTAL	621

Q3 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 618 Skipped: 410

Appendix F: TPM Validation Survey Summary

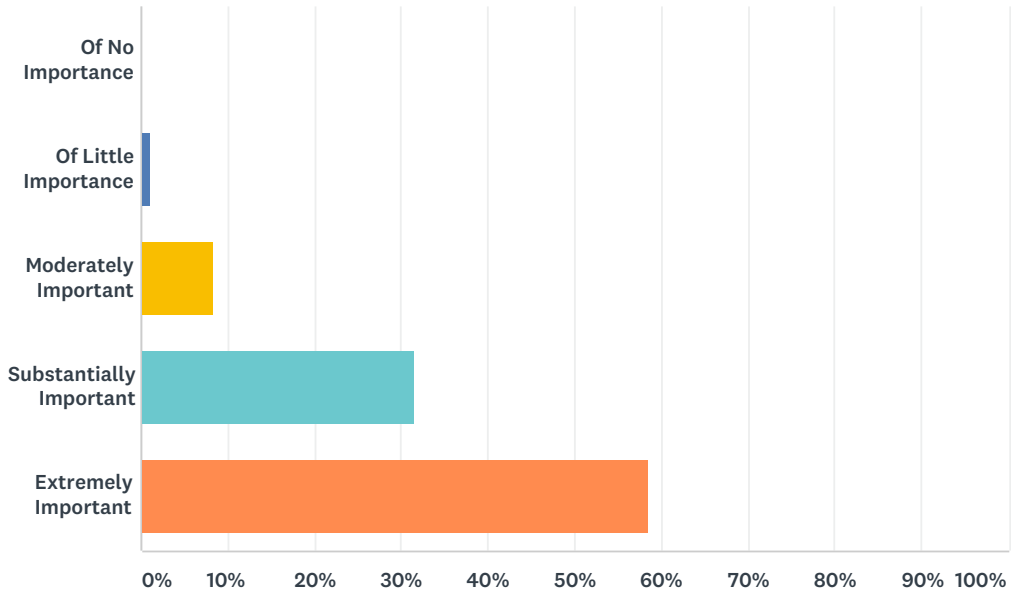


ANSWER CHOICES	RESPONSES
Never	0.32% 2
Rarely	1.46% 9
Sometimes	12.94% 80
Often	40.13% 248
Repetitively	45.15% 279
TOTAL	618

Q4 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 622 Skipped: 406

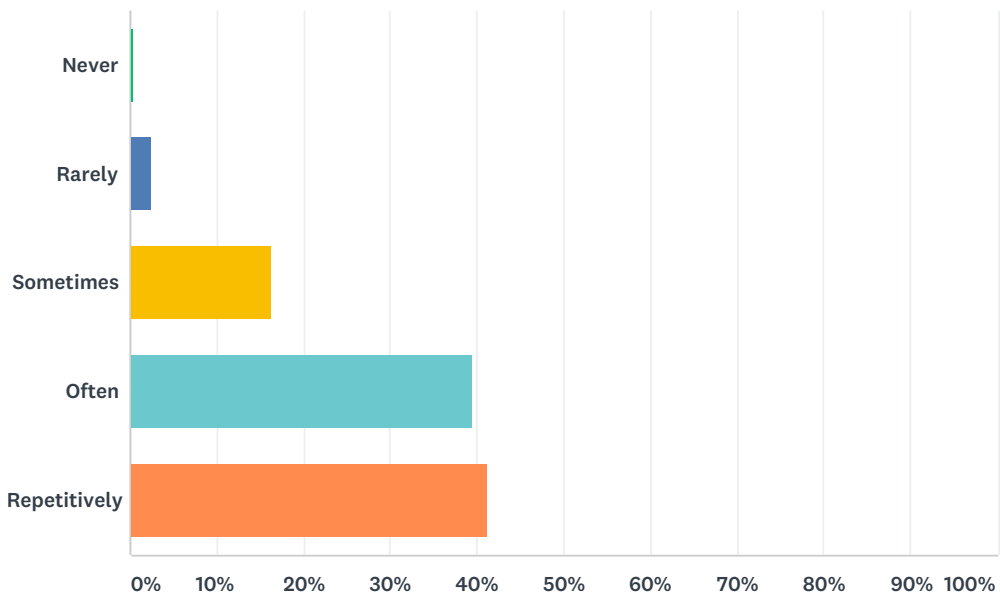
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Of No Importance	0.16% 1
Of Little Importance	1.13% 7
Moderately Important	8.36% 52
Substantially Important	31.67% 197
Extremely Important	58.68% 365
TOTAL	622

Q5 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 621 Skipped: 407

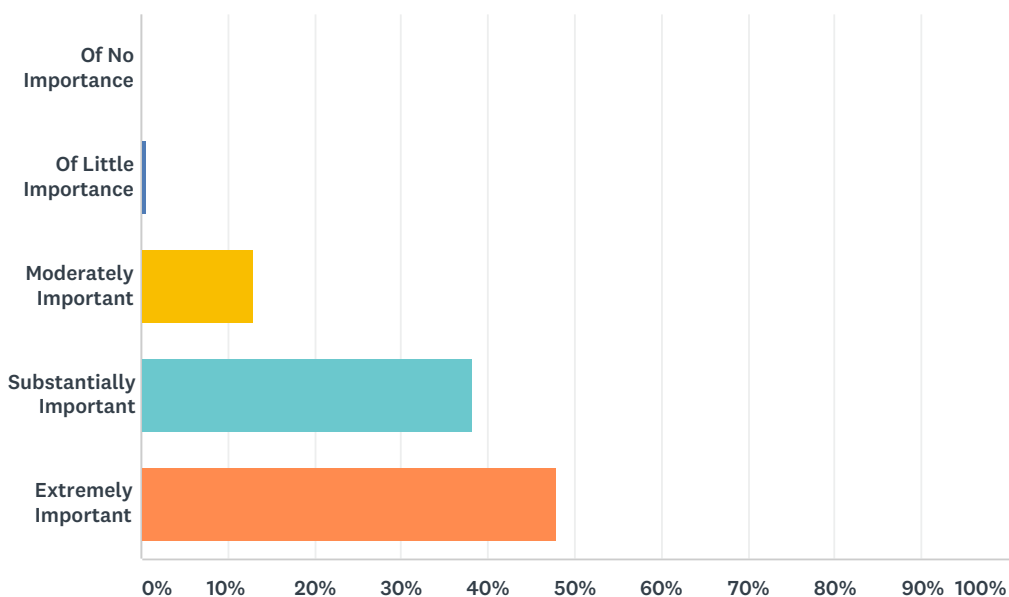


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	0.32%	2
Rarely	2.58%	16
Sometimes	16.26%	101
Often	39.61%	246
Repetitively	41.22%	256
TOTAL		621

Q6 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 618 Skipped: 410

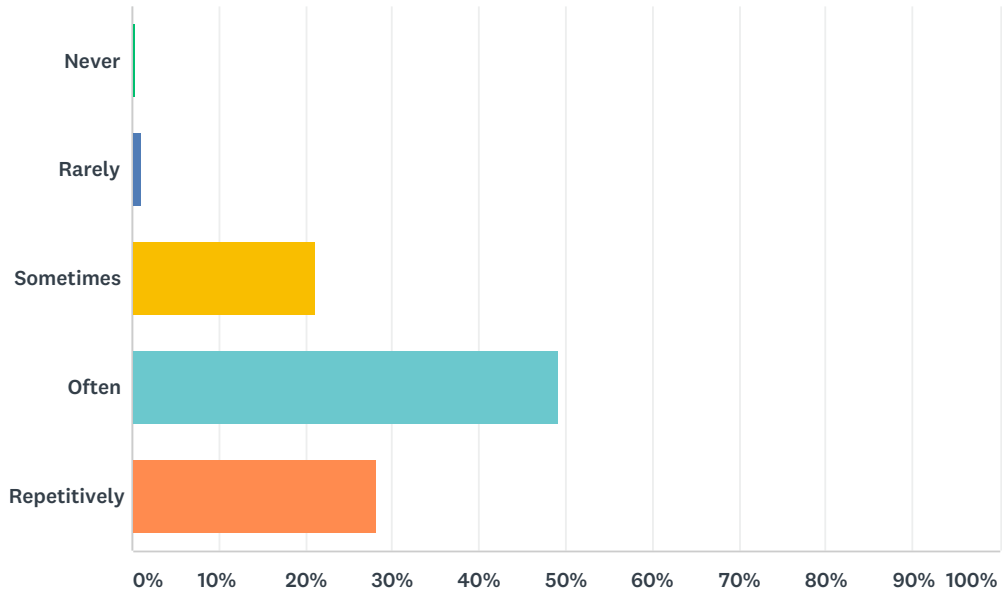


ANSWER CHOICES	RESPONSES	
Of No Importance	0.16%	1
Of Little Importance	0.65%	4
Moderately Important	12.94%	80
Substantially Important	38.35%	237
Extremely Important	47.90%	296
TOTAL		618

Q7 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 618 Skipped: 410

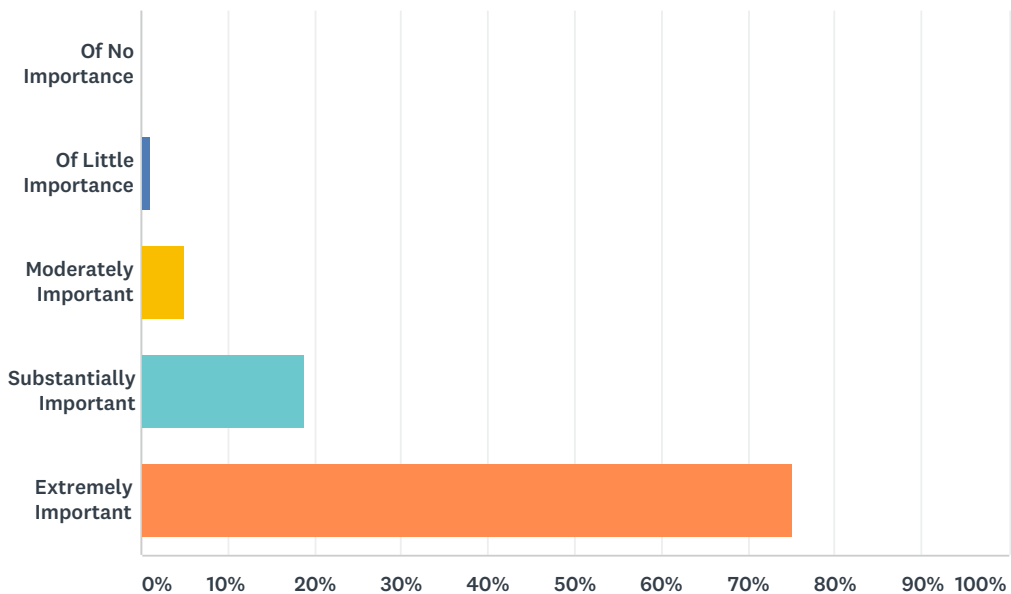
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	0.32% 2
Rarely	1.13% 7
Sometimes	21.04% 130
Often	49.19% 304
Repetitively	28.32% 175
TOTAL	618

Q8 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 617 Skipped: 411

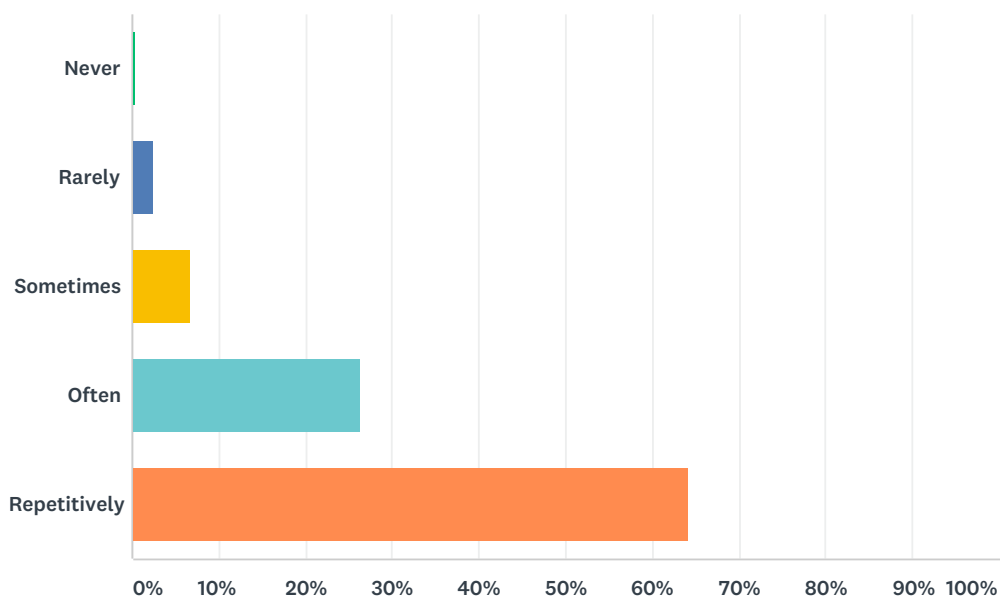


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	0.16%	1
Of Little Importance	0.97%	6
Moderately Important	5.02%	31
Substantially Important	18.80%	116
Extremely Important	75.04%	463
TOTAL		617

Q9 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 619 Skipped: 409

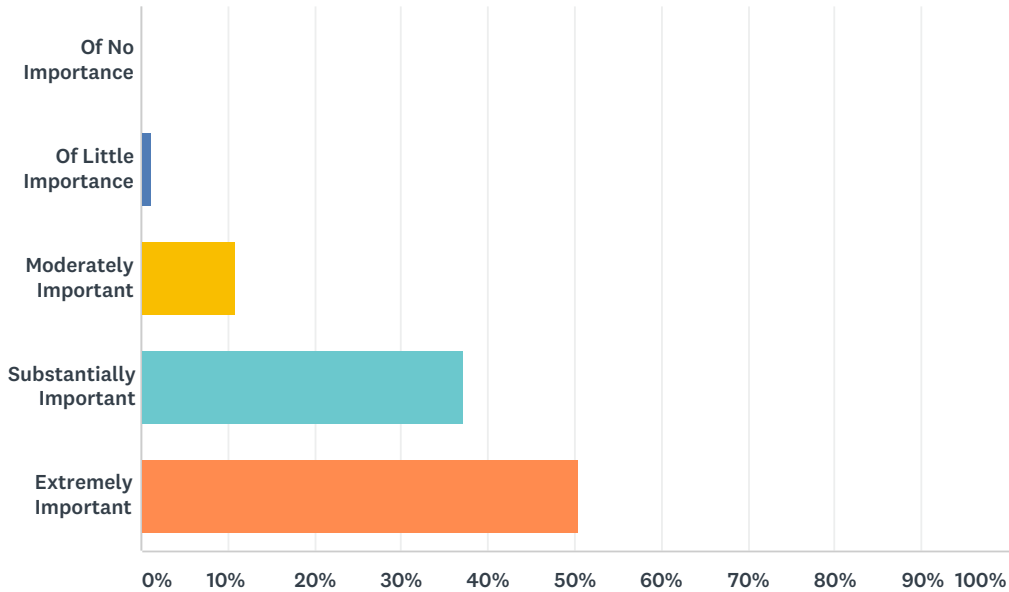


ANSWER CHOICES	RESPONSES	
Never	0.32%	2
Rarely	2.42%	15
Sometimes	6.62%	41
Often	26.33%	163
Repetitively	64.30%	398
TOTAL		619

Q10 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 592 Skipped: 436

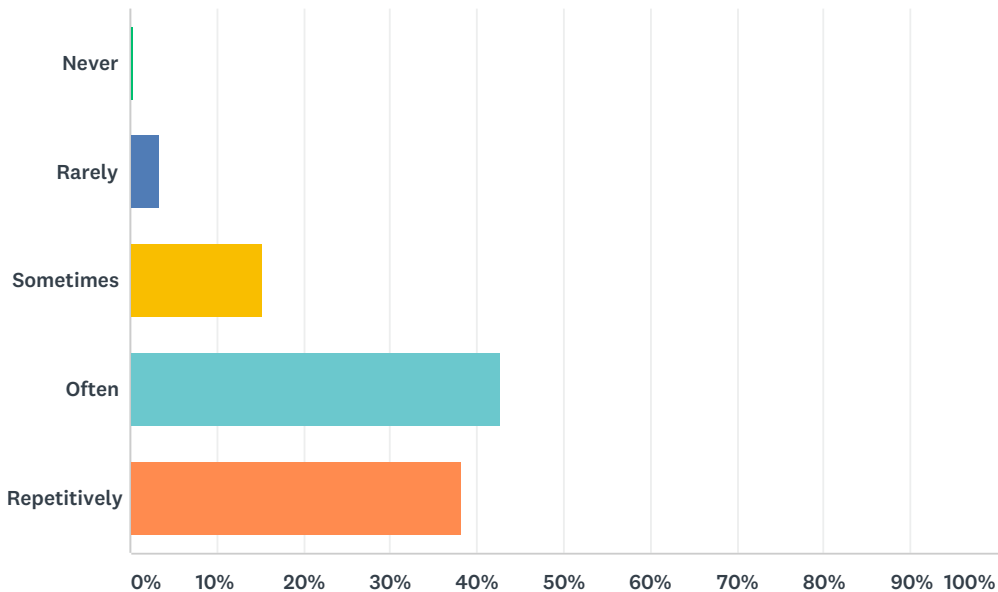
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Of No Importance	0.17% 1
Of Little Importance	1.18% 7
Moderately Important	10.81% 64
Substantially Important	37.33% 221
Extremely Important	50.51% 299
TOTAL	592

Q11 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 593 Skipped: 435

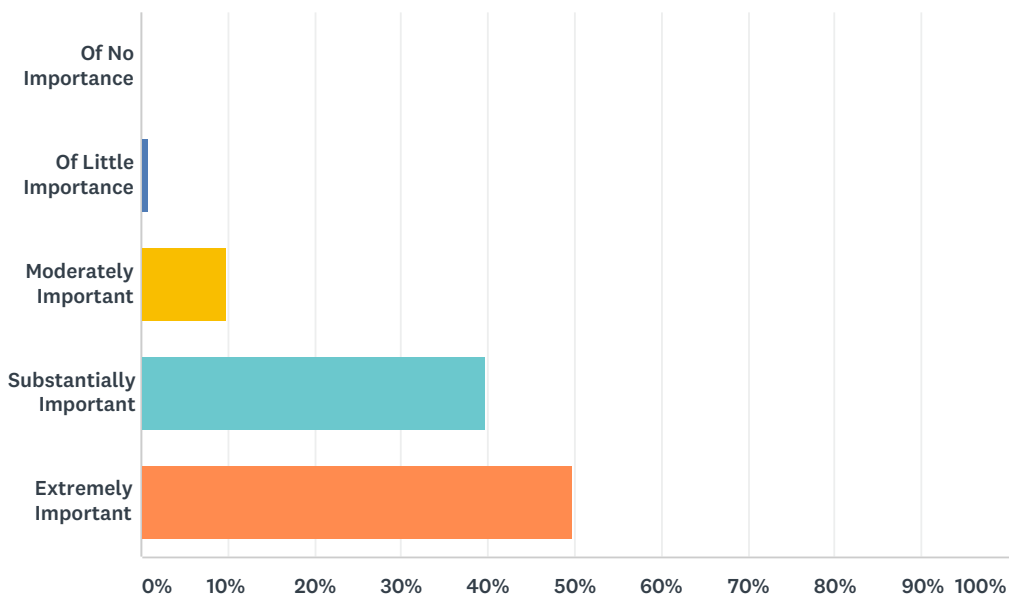


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	0.34%	2
Rarely	3.37%	20
Sometimes	15.35%	91
Often	42.66%	253
Repetitively	38.28%	227
TOTAL		593

Q12 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 595 Skipped: 433

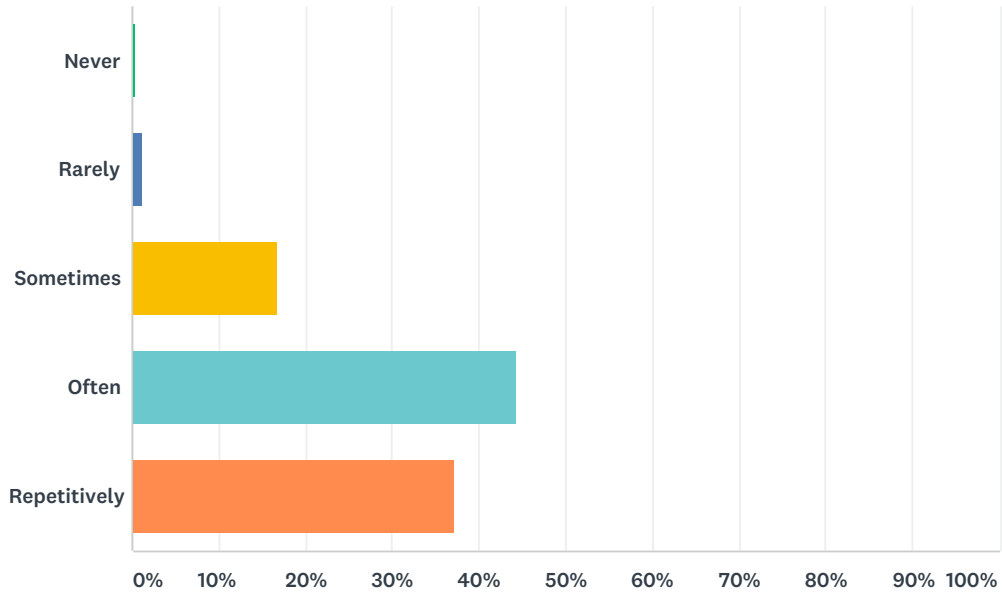


ANSWER CHOICES	RESPONSES	
Of No Importance	0.00%	0
Of Little Importance	0.84%	5
Moderately Important	9.75%	58
Substantially Important	39.66%	236
Extremely Important	49.75%	296
TOTAL		595

Q13 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 595 Skipped: 433

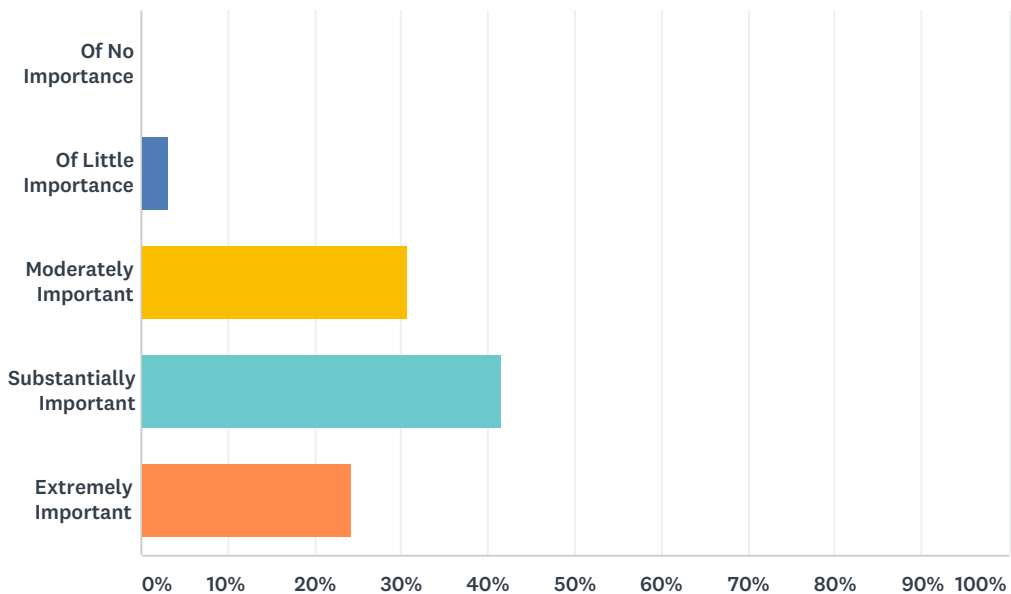
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	0.34% 2
Rarely	1.18% 7
Sometimes	16.81% 100
Often	44.37% 264
Repetitively	37.31% 222
TOTAL	595

Q14 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 595 Skipped: 433

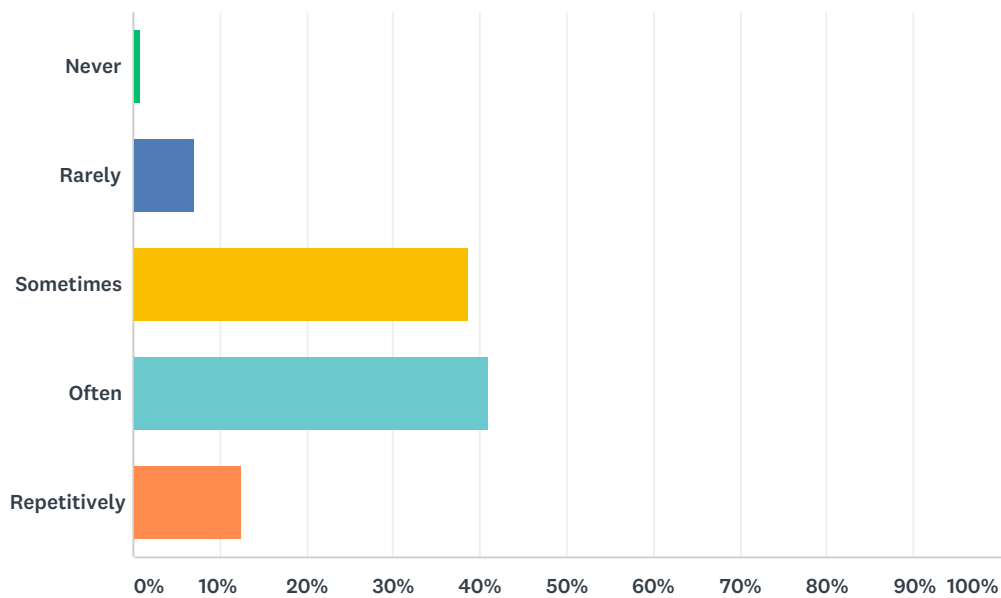


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	0.17%	1
Of Little Importance	3.19%	19
Moderately Important	30.76%	183
Substantially Important	41.68%	248
Extremely Important	24.20%	144
TOTAL		595

Q15 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 594 Skipped: 434

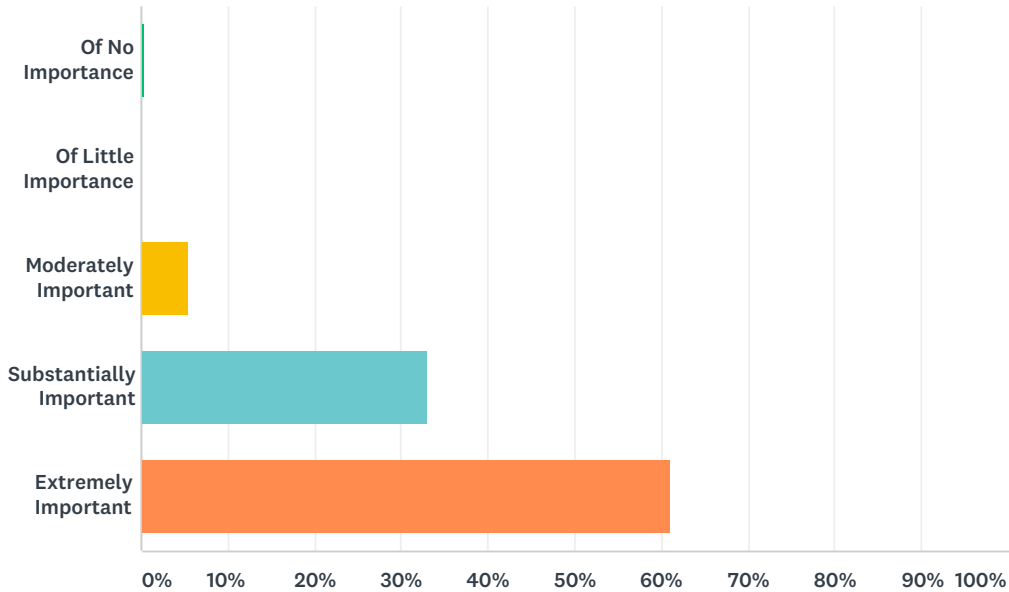


ANSWER CHOICES	RESPONSES	
Never	0.84%	5
Rarely	7.07%	42
Sometimes	38.72%	230
Often	40.91%	243
Repetitively	12.46%	74
TOTAL		594

Q16 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 578 Skipped: 450

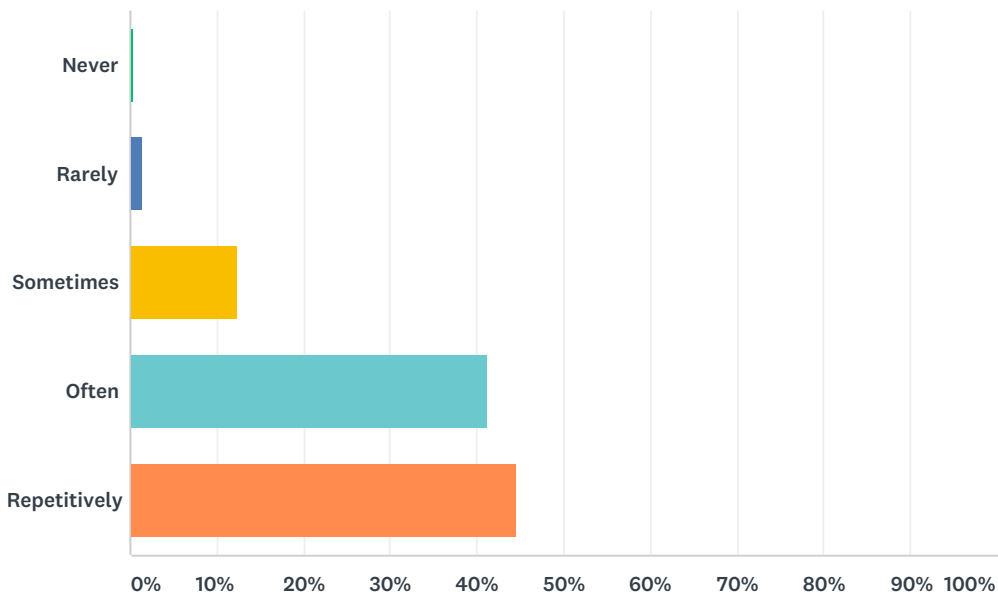
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES	
Of No Importance	0.35%	2
Of Little Importance	0.17%	1
Moderately Important	5.36%	31
Substantially Important	33.04%	191
Extremely Important	61.07%	353
TOTAL		578

Q17 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 578 Skipped: 450

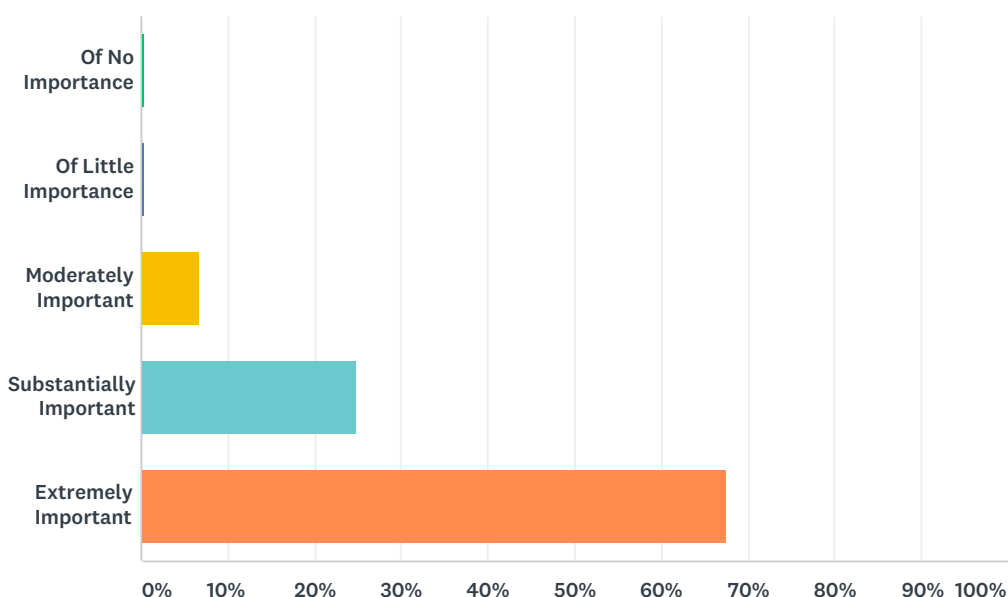


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	0.35%	2
Rarely	1.56%	9
Sometimes	12.28%	71
Often	41.18%	238
Repetitively	44.64%	258
TOTAL		578

Q18 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 576 Skipped: 452

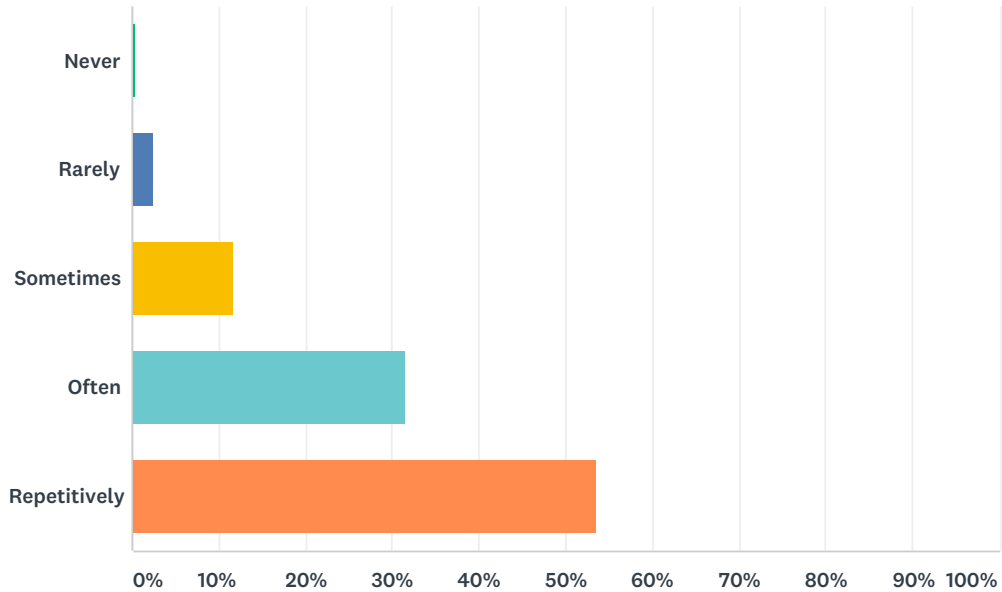


ANSWER CHOICES	RESPONSES	
Of No Importance	0.35%	2
Of Little Importance	0.52%	3
Moderately Important	6.60%	38
Substantially Important	25.00%	144
Extremely Important	67.53%	389
TOTAL		576

Q19 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 577 Skipped: 451

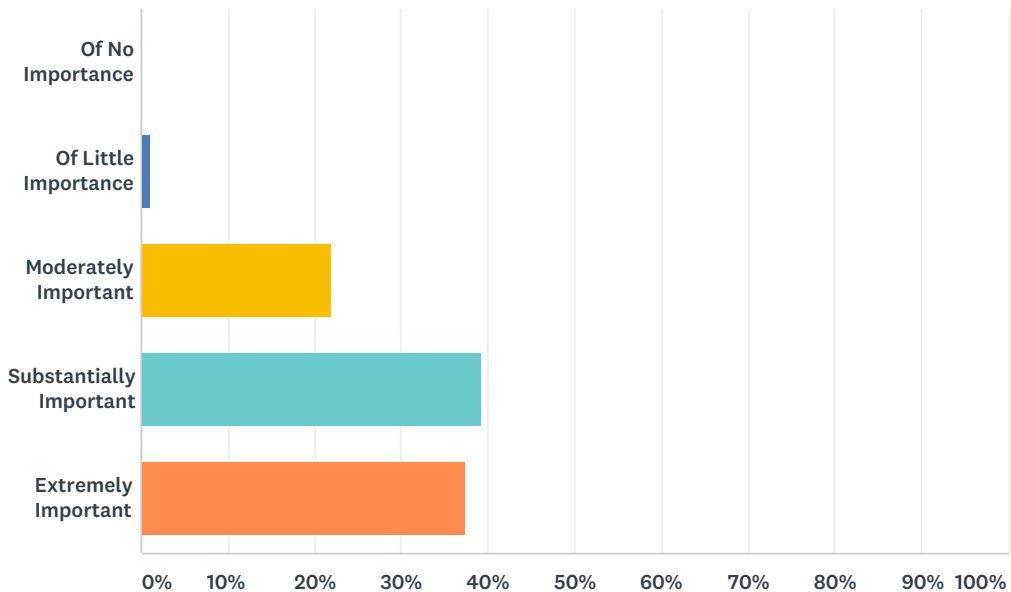
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	0.52% 3
Rarely	2.60% 15
Sometimes	11.79% 68
Often	31.54% 182
Repetitively	53.55% 309
TOTAL	577

Q20 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 576 Skipped: 452

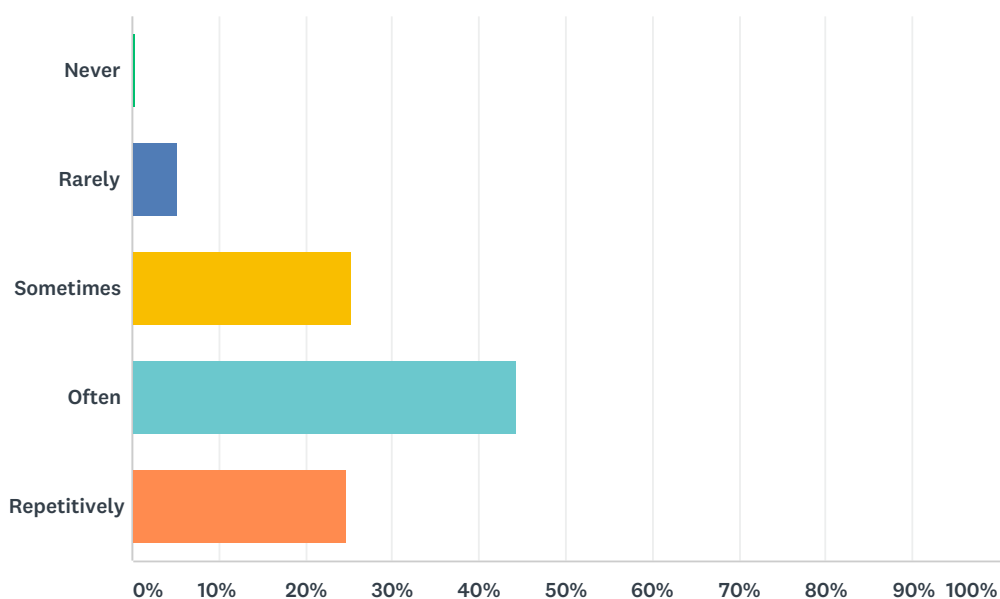


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	0.17%	1
Of Little Importance	1.04%	6
Moderately Important	21.88%	126
Substantially Important	39.41%	227
Extremely Important	37.50%	216
TOTAL		576

Q21 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 577 Skipped: 451

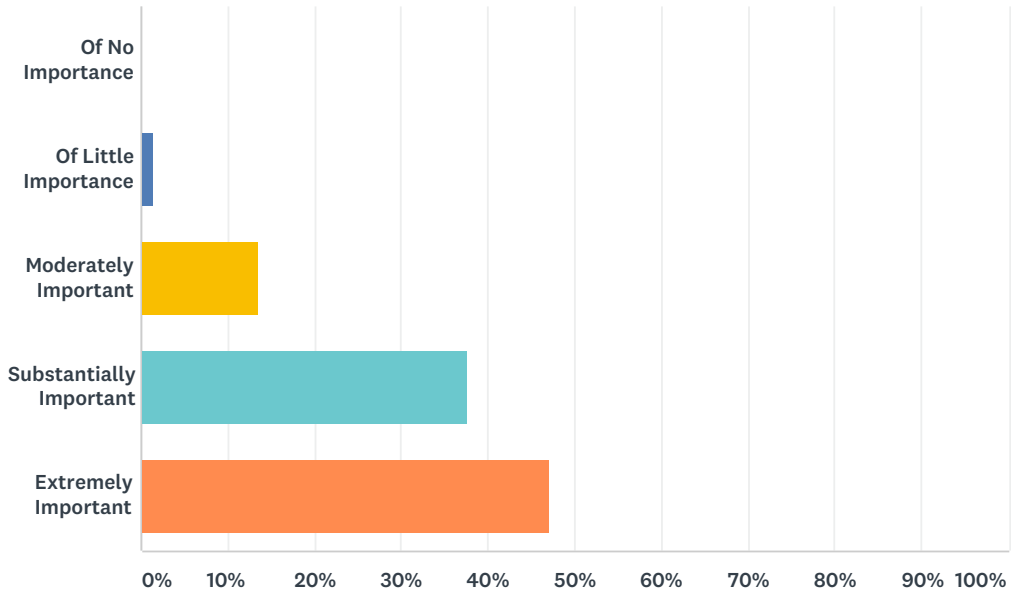


ANSWER CHOICES	RESPONSES	
Never	0.35%	2
Rarely	5.20%	30
Sometimes	25.30%	146
Often	44.37%	256
Repetitively	24.78%	143
TOTAL		577

Q22 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 554 Skipped: 474

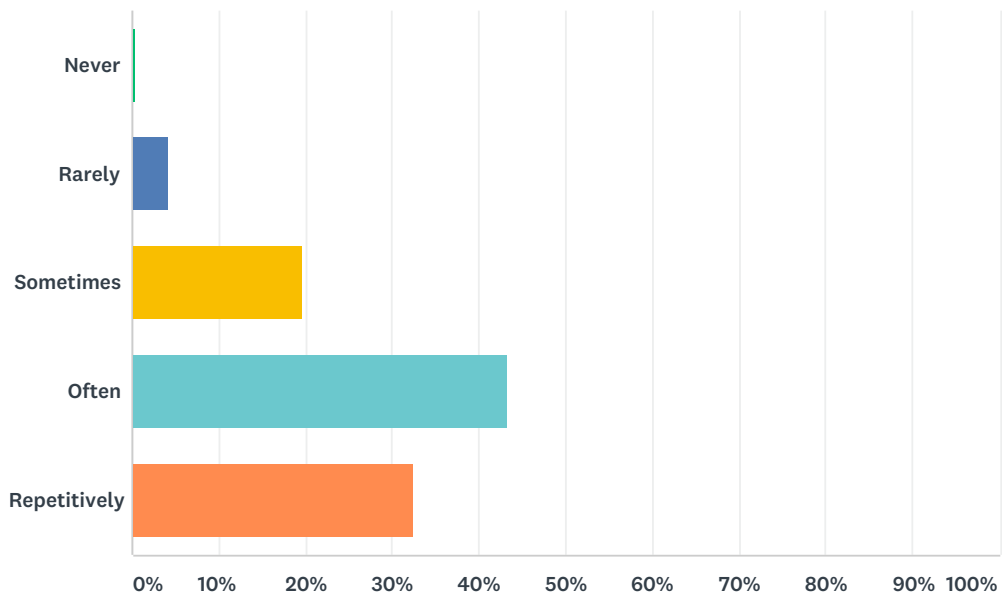
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Of No Importance	0.18% 1
Of Little Importance	1.44% 8
Moderately Important	13.54% 75
Substantially Important	37.73% 209
Extremely Important	47.11% 261
TOTAL	554

Q23 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 552 Skipped: 476

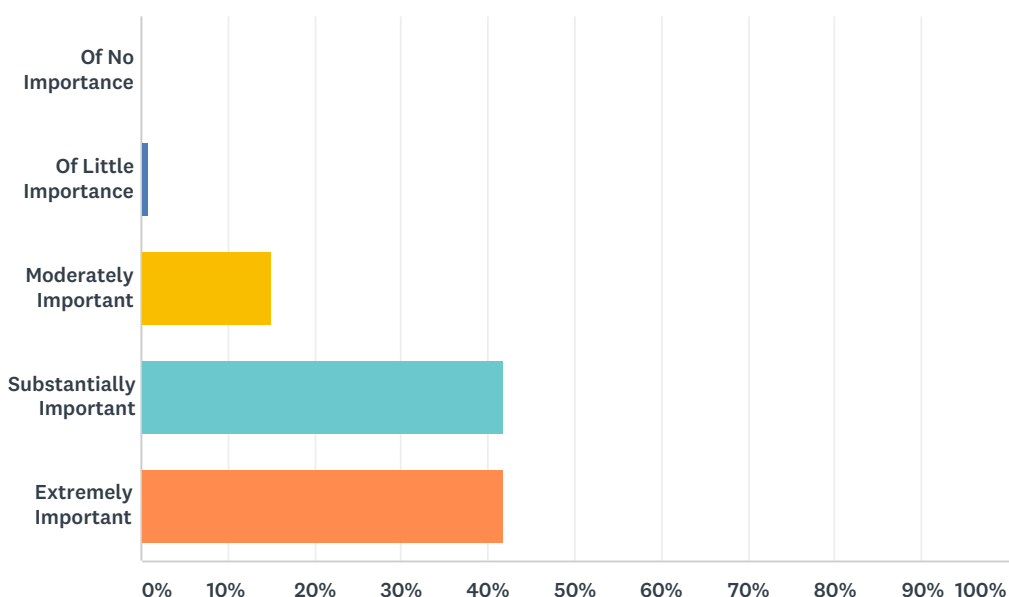


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	0.36%	2
Rarely	4.17%	23
Sometimes	19.75%	109
Often	43.30%	239
Repetitively	32.43%	179
TOTAL		552

Q24 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 556 Skipped: 472

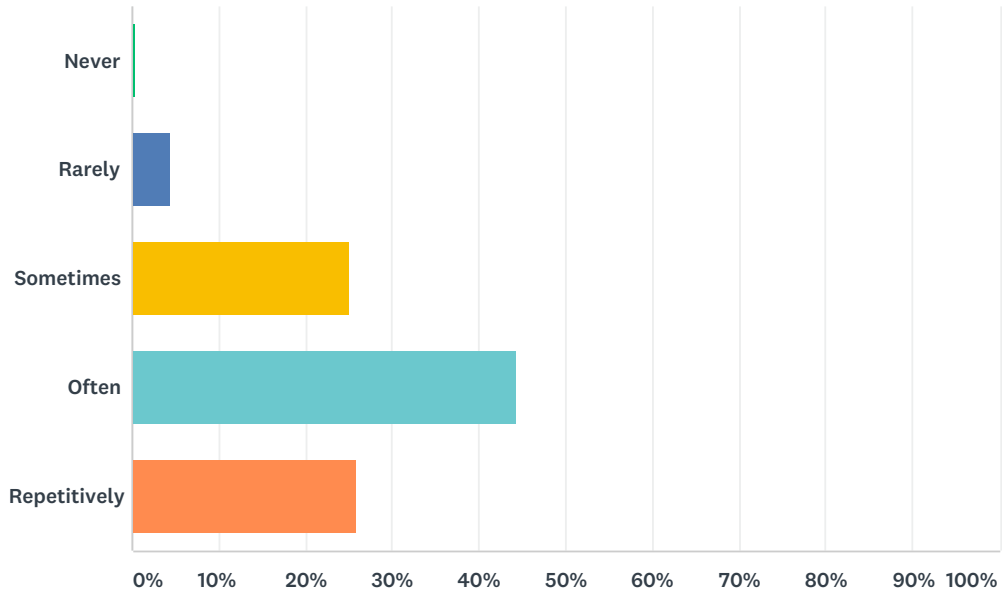


ANSWER CHOICES	RESPONSES	
Of No Importance	0.18%	1
Of Little Importance	0.90%	5
Moderately Important	15.11%	84
Substantially Important	41.91%	233
Extremely Important	41.91%	233
TOTAL		556

Q25 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 555 Skipped: 473

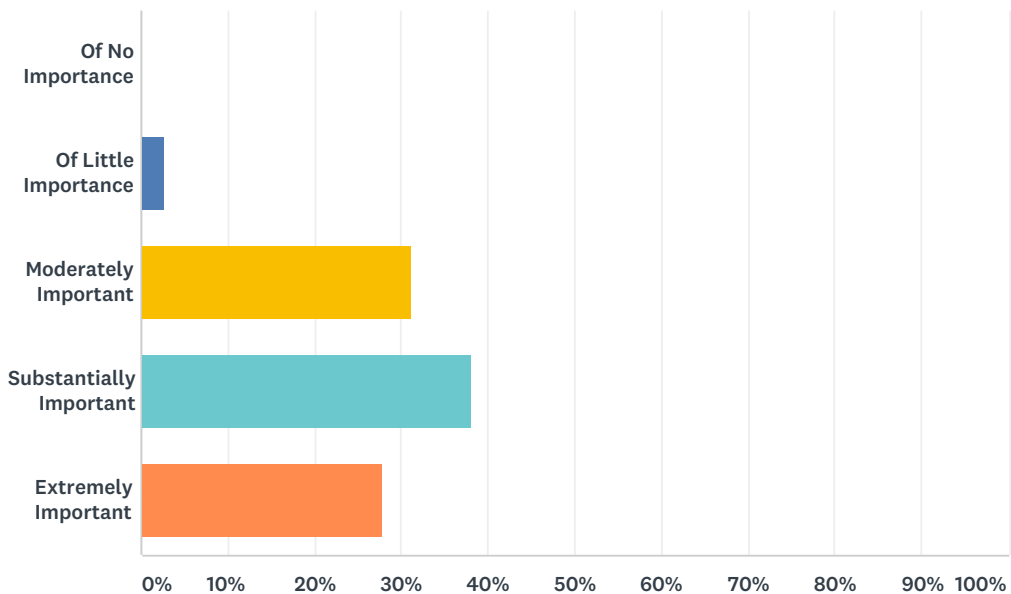
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	0.36% 2
Rarely	4.32% 24
Sometimes	25.05% 139
Often	44.32% 246
Repetitively	25.95% 144
TOTAL	555

Q26 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 556 Skipped: 472

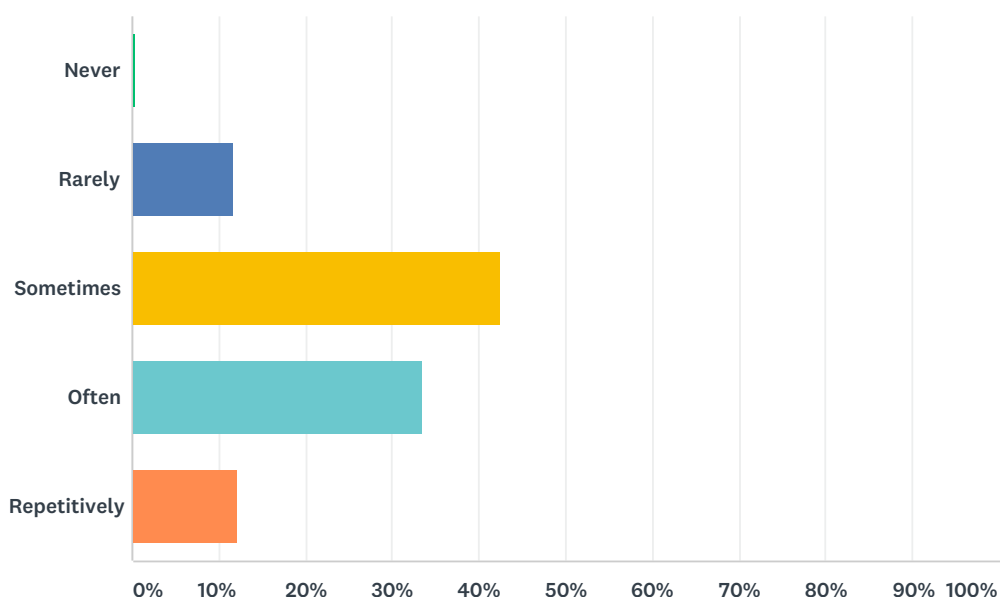


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	0.18%	1
Of Little Importance	2.70%	15
Moderately Important	31.12%	173
Substantially Important	38.13%	212
Extremely Important	27.88%	155
TOTAL		556

Q27 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 557 Skipped: 471

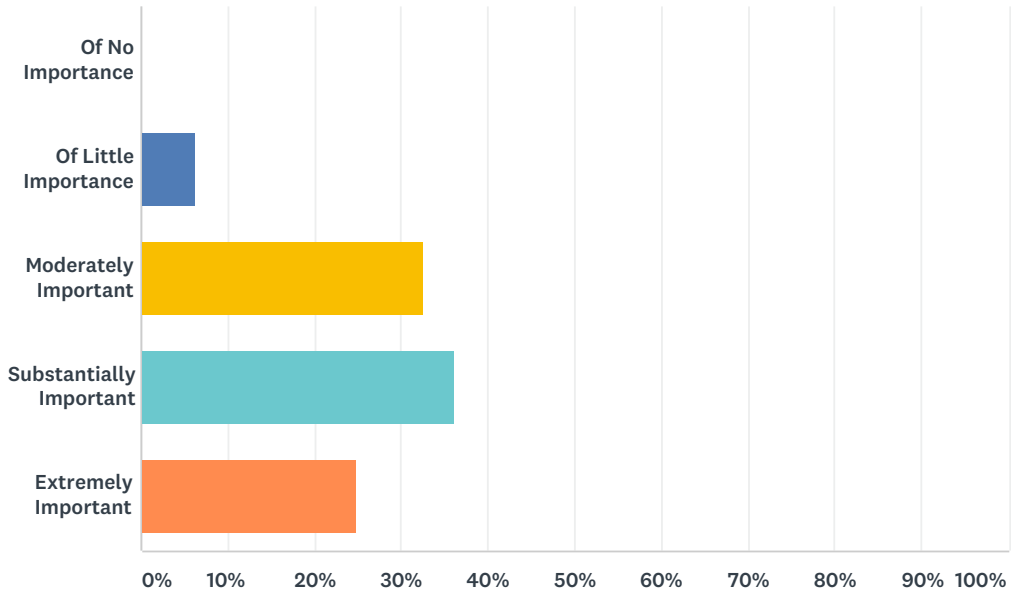


ANSWER CHOICES	RESPONSES	
Never	0.36%	2
Rarely	11.67%	65
Sometimes	42.37%	236
Often	33.39%	186
Repetitively	12.21%	68
TOTAL		557

Q28 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 548 Skipped: 480

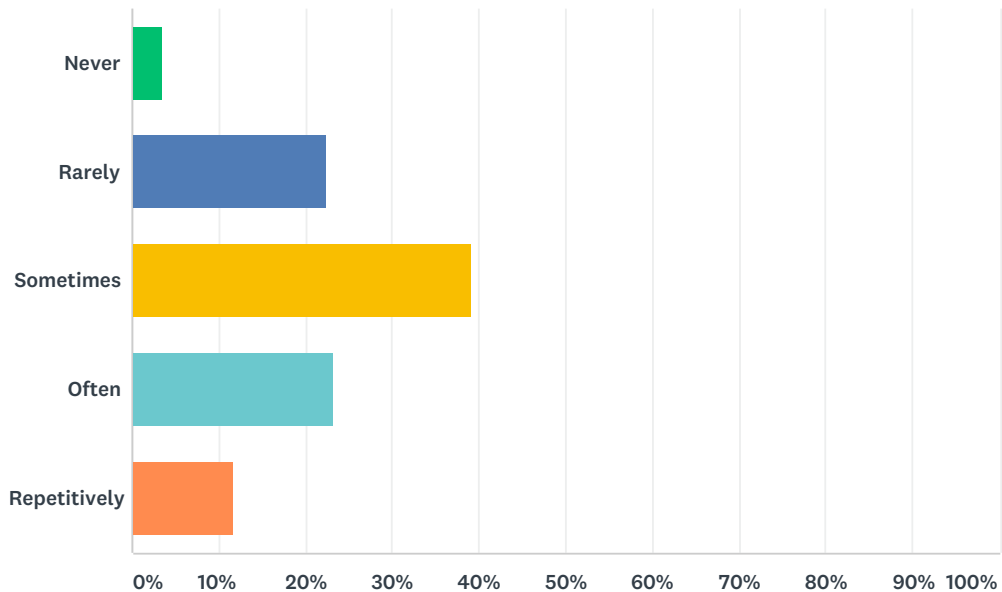
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES	
Of No Importance	0.18%	1
Of Little Importance	6.20%	34
Moderately Important	32.66%	179
Substantially Important	36.13%	198
Extremely Important	24.82%	136
TOTAL		548

Q29 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 549 Skipped: 479

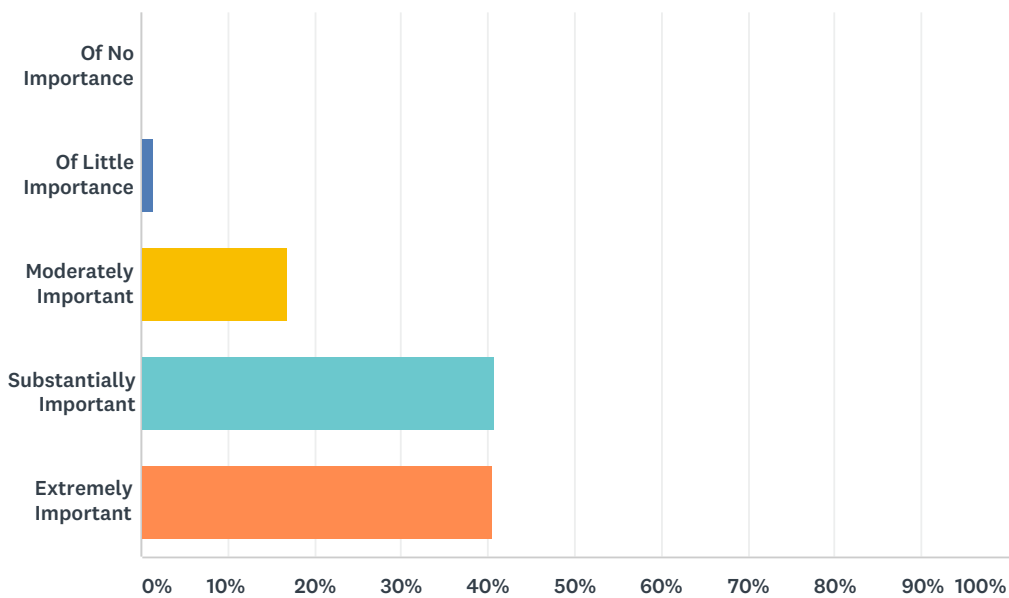


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	3.64%	20
Rarely	22.40%	123
Sometimes	39.16%	215
Often	23.13%	127
Repetitively	11.66%	64
TOTAL		549

Q30 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 549 Skipped: 479

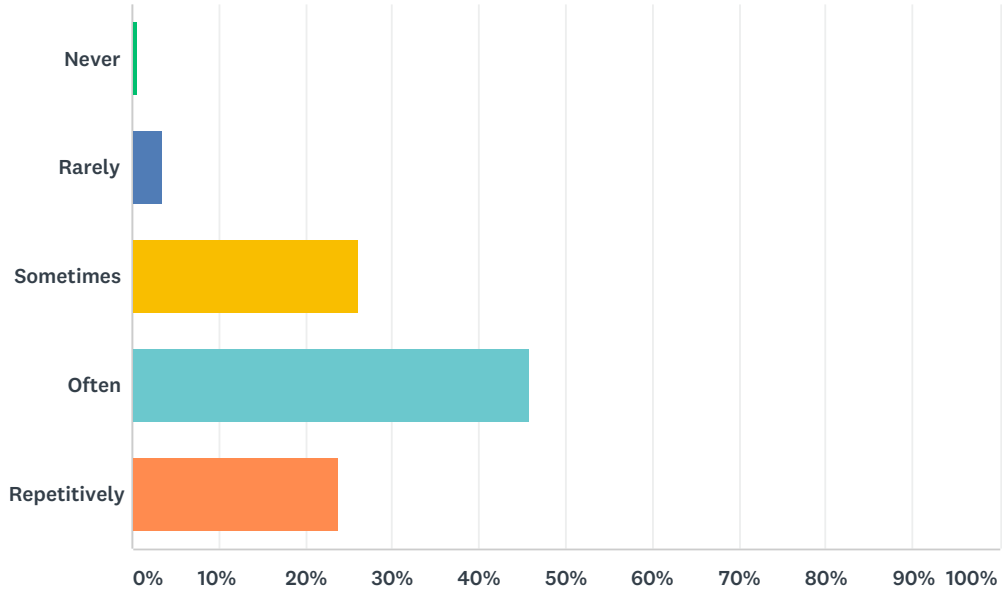


ANSWER CHOICES	RESPONSES	
Of No Importance	0.18%	1
Of Little Importance	1.46%	8
Moderately Important	16.94%	93
Substantially Important	40.80%	224
Extremely Important	40.62%	223
TOTAL		549

Q31 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 549 Skipped: 479

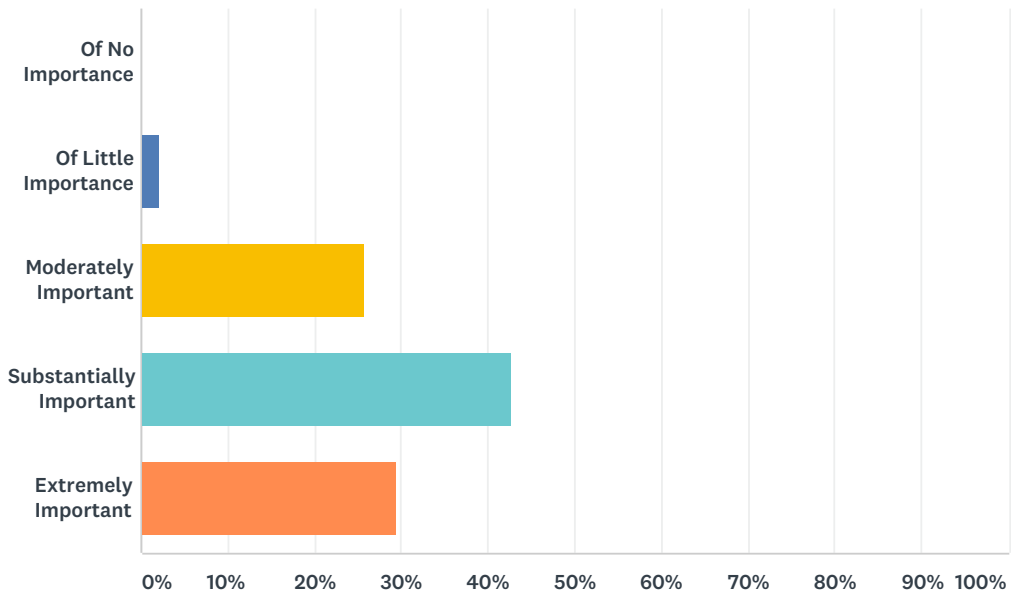
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	0.73% 4
Rarely	3.46% 19
Sometimes	26.23% 144
Often	45.72% 251
Repetitively	23.86% 131
TOTAL	549

Q32 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 547 Skipped: 481

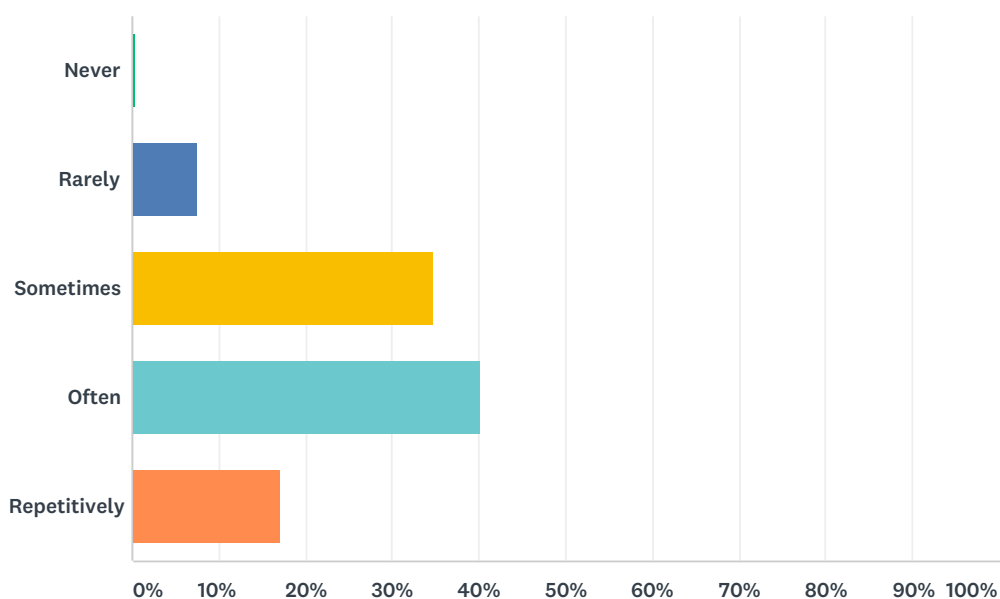


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	0.18%	1
Of Little Importance	2.01%	11
Moderately Important	25.78%	141
Substantially Important	42.60%	233
Extremely Important	29.43%	161
TOTAL		547

Q33 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 547 Skipped: 481

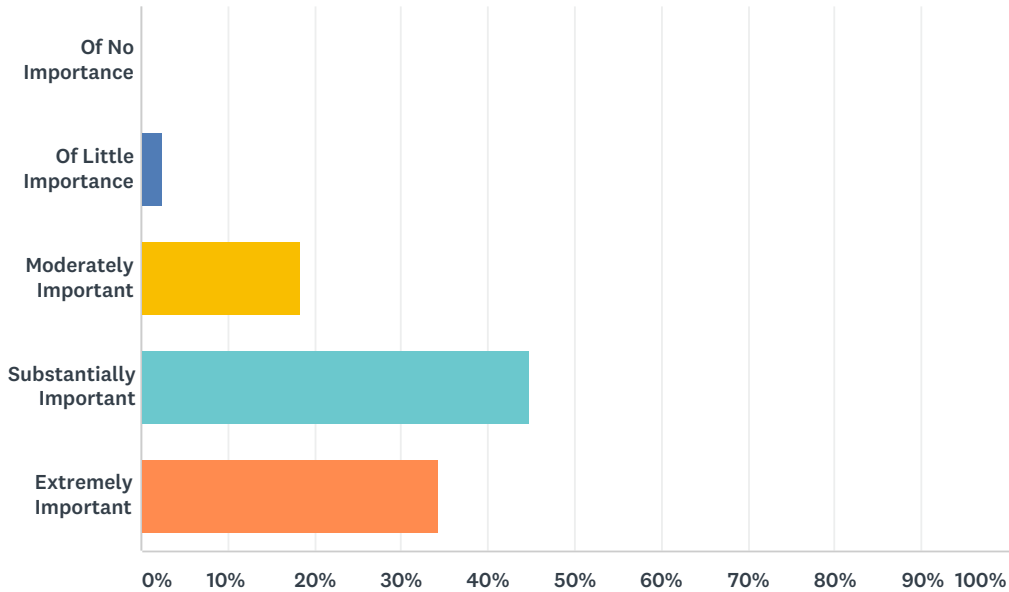


ANSWER CHOICES	RESPONSES	
Never	0.37%	2
Rarely	7.50%	41
Sometimes	34.73%	190
Often	40.22%	220
Repetitively	17.18%	94
TOTAL		547

Q34 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 539 Skipped: 489

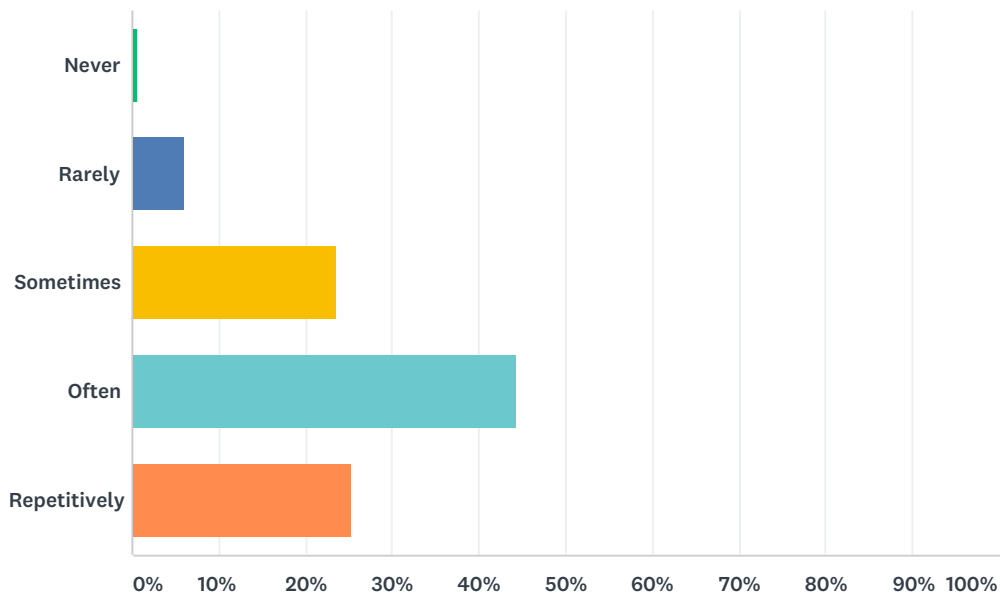
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Of No Importance	0.19% 1
Of Little Importance	2.41% 13
Moderately Important	18.37% 99
Substantially Important	44.71% 241
Extremely Important	34.32% 185
TOTAL	539

Q35 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 541 Skipped: 487

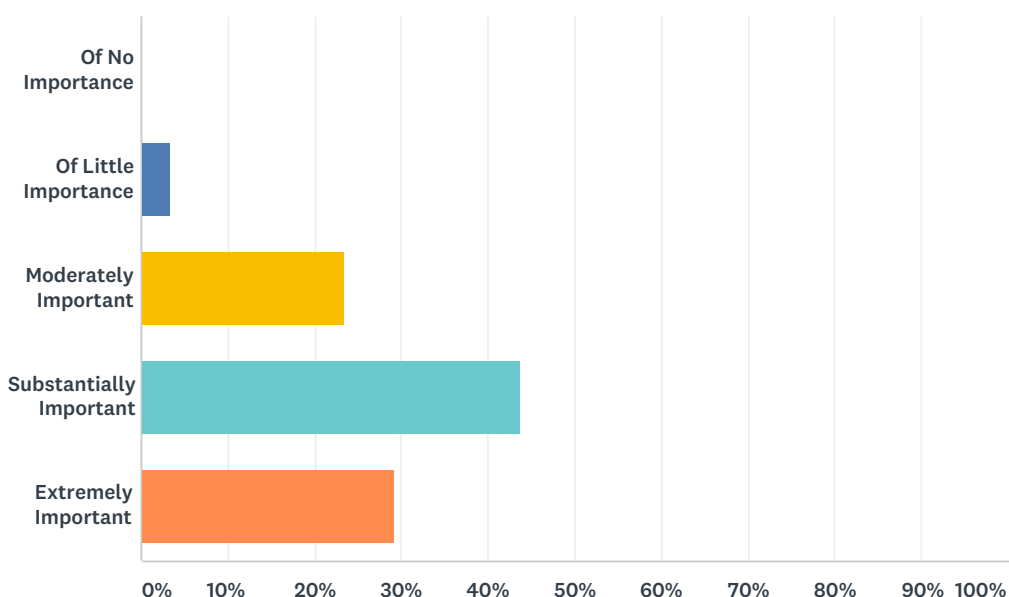


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	0.55%	3
Rarely	6.10%	33
Sometimes	23.66%	128
Often	44.36%	240
Repetitively	25.32%	137
TOTAL		541

Q36 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 537 Skipped: 491

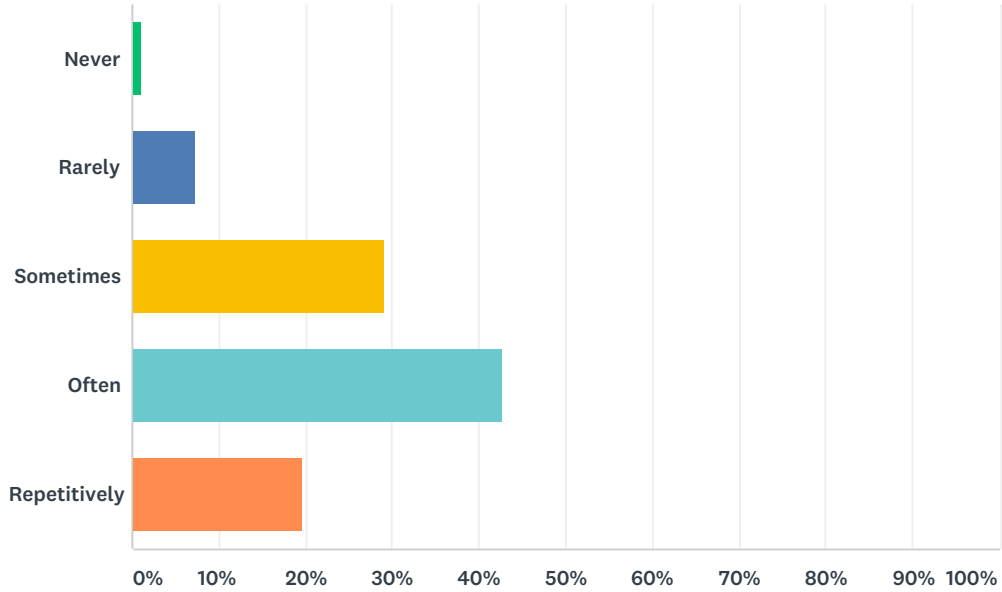


ANSWER CHOICES	RESPONSES	
Of No Importance	0.19%	1
Of Little Importance	3.35%	18
Moderately Important	23.46%	126
Substantially Important	43.76%	235
Extremely Important	29.24%	157
TOTAL		537

Q37 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 538 Skipped: 490

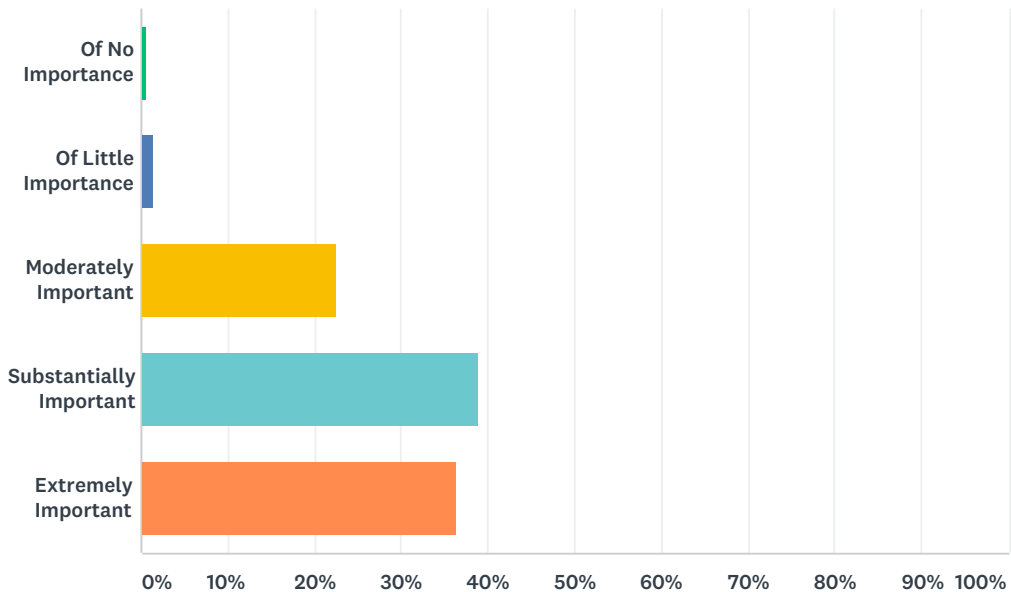
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	1.12% 6
Rarely	7.25% 39
Sometimes	29.18% 157
Often	42.75% 230
Repetitively	19.70% 106
TOTAL	538

Q38 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 539 Skipped: 489

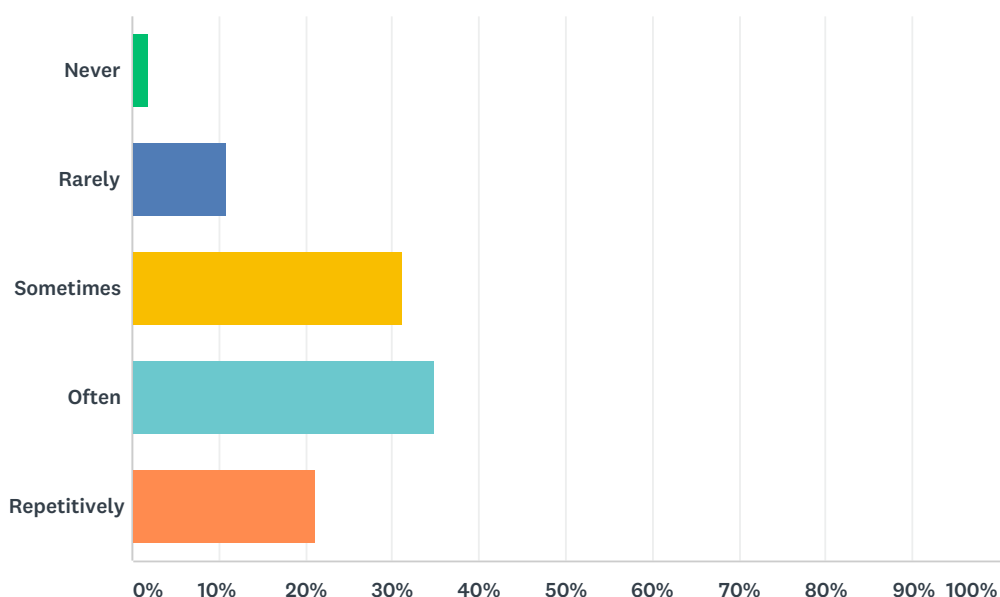


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	0.56%	3
Of Little Importance	1.48%	8
Moderately Important	22.63%	122
Substantially Important	38.96%	210
Extremely Important	36.36%	196
TOTAL		539

Q39 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 539 Skipped: 489

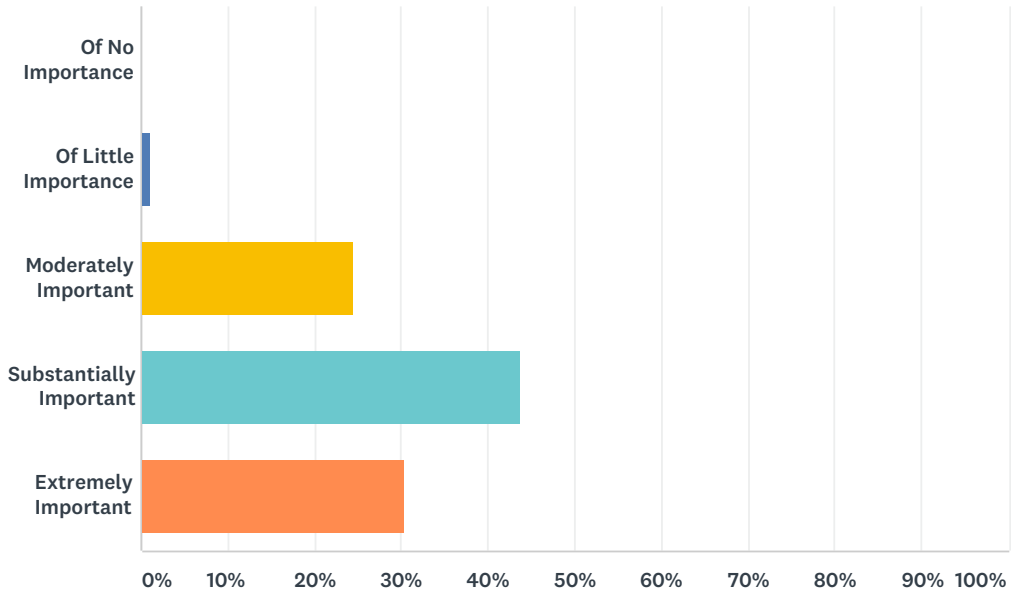


ANSWER CHOICES	RESPONSES	
Never	1.86%	10
Rarely	10.95%	59
Sometimes	31.17%	168
Often	34.88%	188
Repetitively	21.15%	114
TOTAL		539

Q40 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 529 Skipped: 499

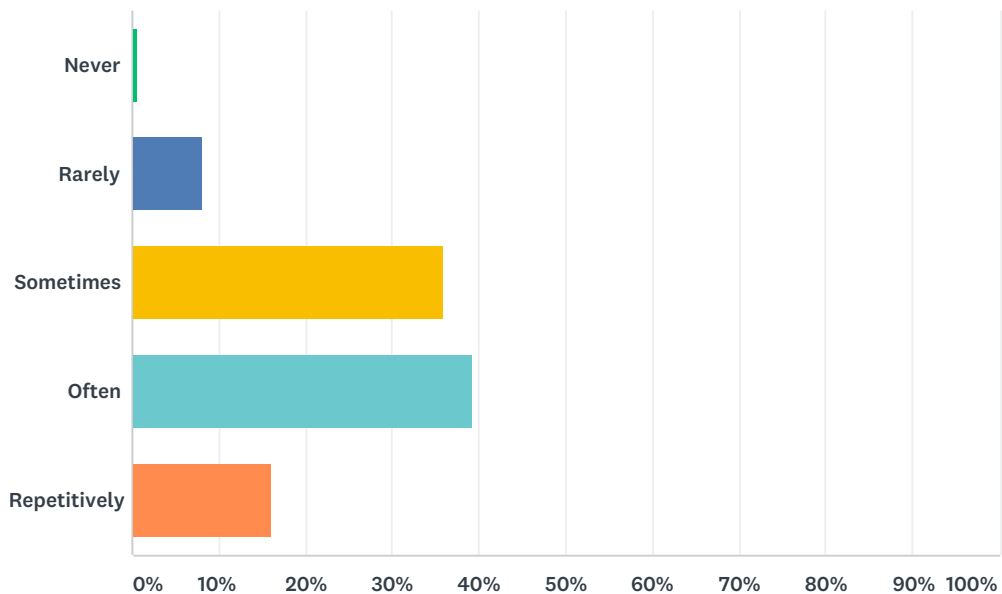
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Of No Importance	0.19% 1
Of Little Importance	1.13% 6
Moderately Important	24.57% 130
Substantially Important	43.67% 231
Extremely Important	30.43% 161
TOTAL	529

Q41 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 529 Skipped: 499

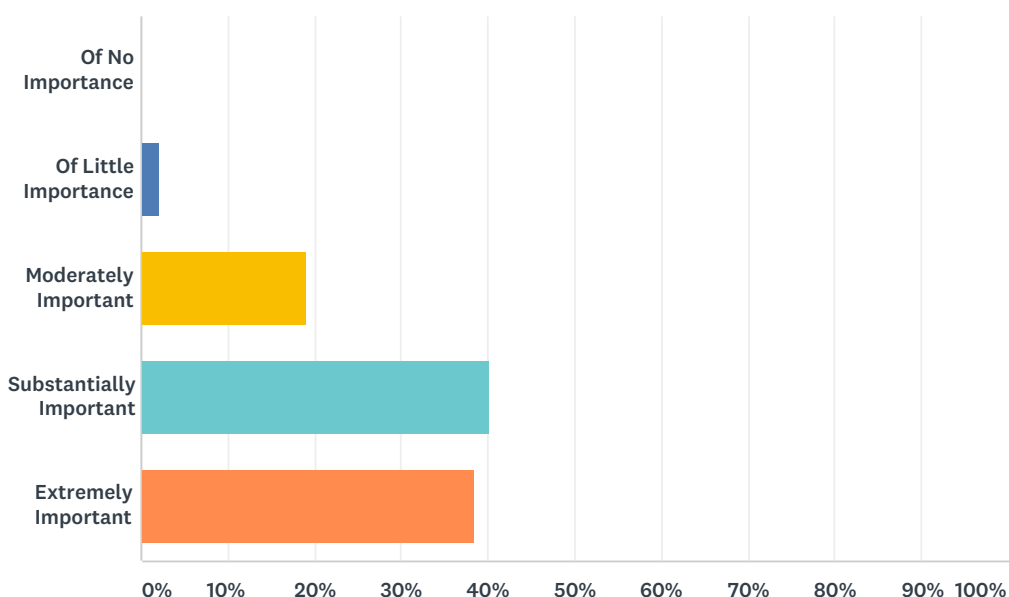


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	0.57%	3
Rarely	8.13%	43
Sometimes	35.92%	190
Often	39.32%	208
Repetitively	16.07%	85
TOTAL		529

Q42 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 526 Skipped: 502

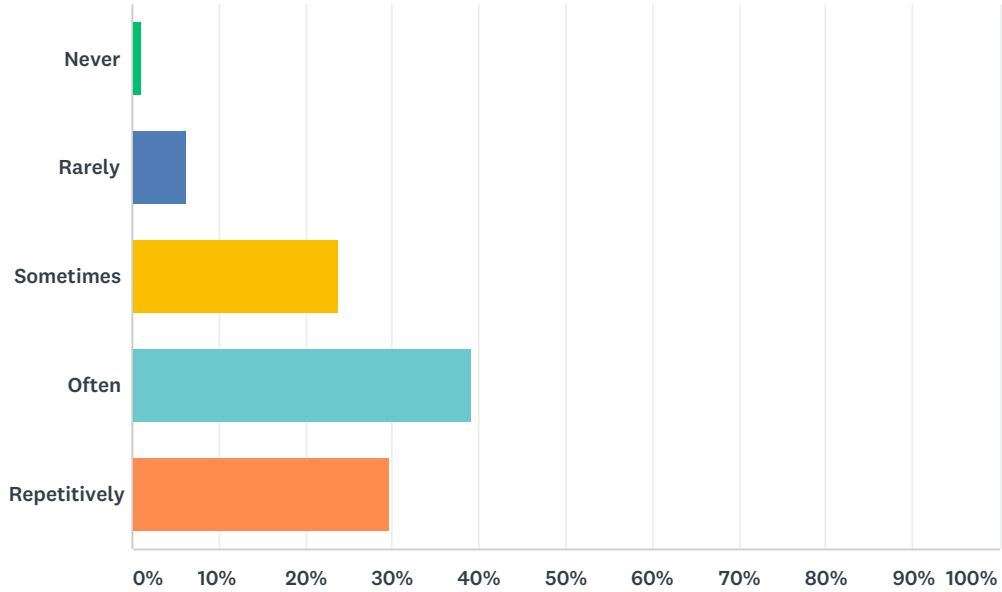


ANSWER CHOICES	RESPONSES	
Of No Importance	0.19%	1
Of Little Importance	2.09%	11
Moderately Important	19.01%	100
Substantially Important	40.11%	211
Extremely Important	38.59%	203
TOTAL		526

Q43 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 528 Skipped: 500

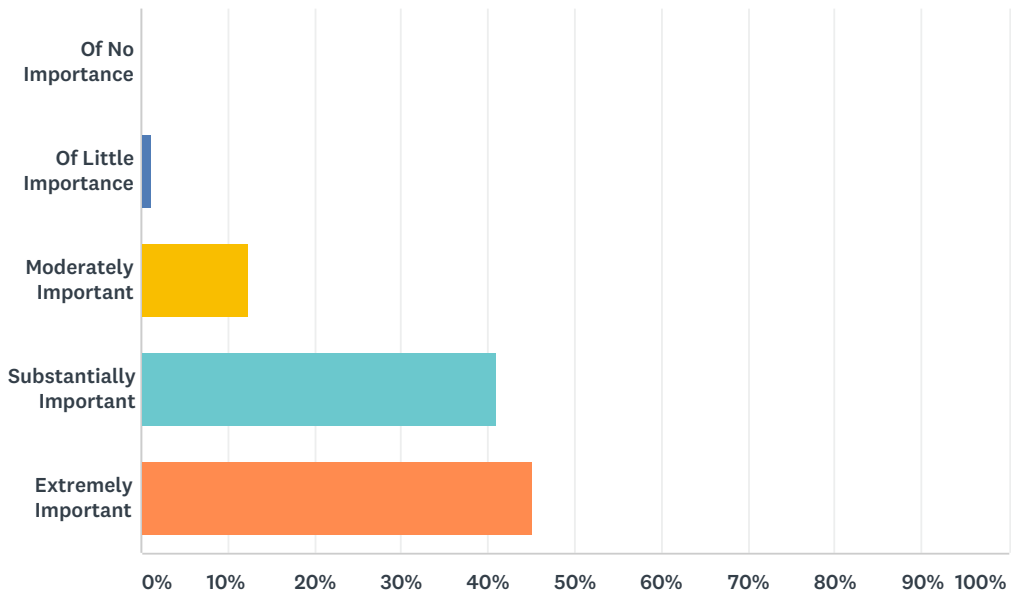
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	0.95% 5
Rarely	6.25% 33
Sometimes	23.86% 126
Often	39.20% 207
Repetitively	29.73% 157
TOTAL	528

Q44 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 530 Skipped: 498

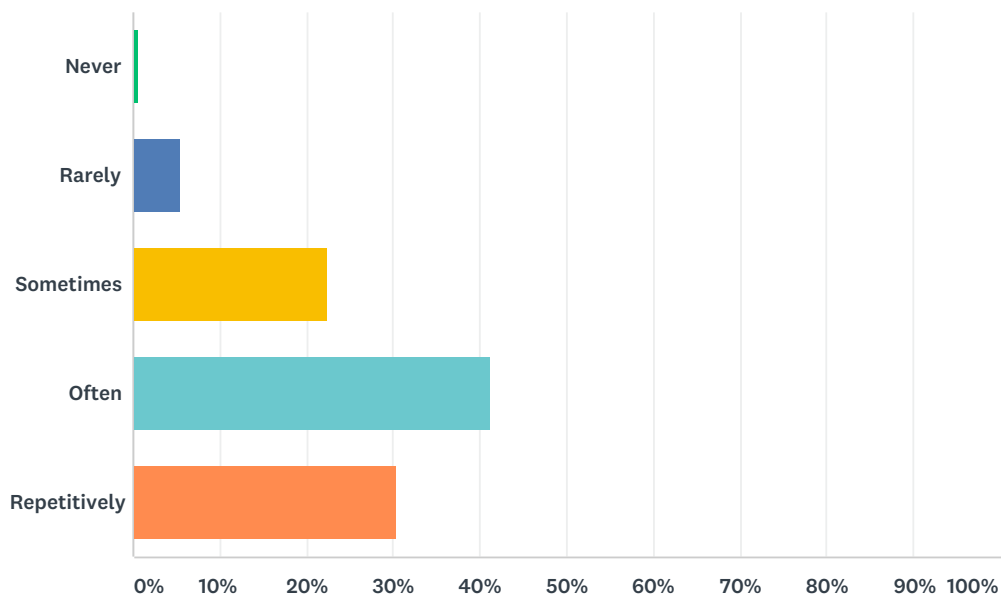


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	0.19%	1
Of Little Importance	1.32%	7
Moderately Important	12.26%	65
Substantially Important	40.94%	217
Extremely Important	45.28%	240
TOTAL		530

Q45 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 528 Skipped: 500

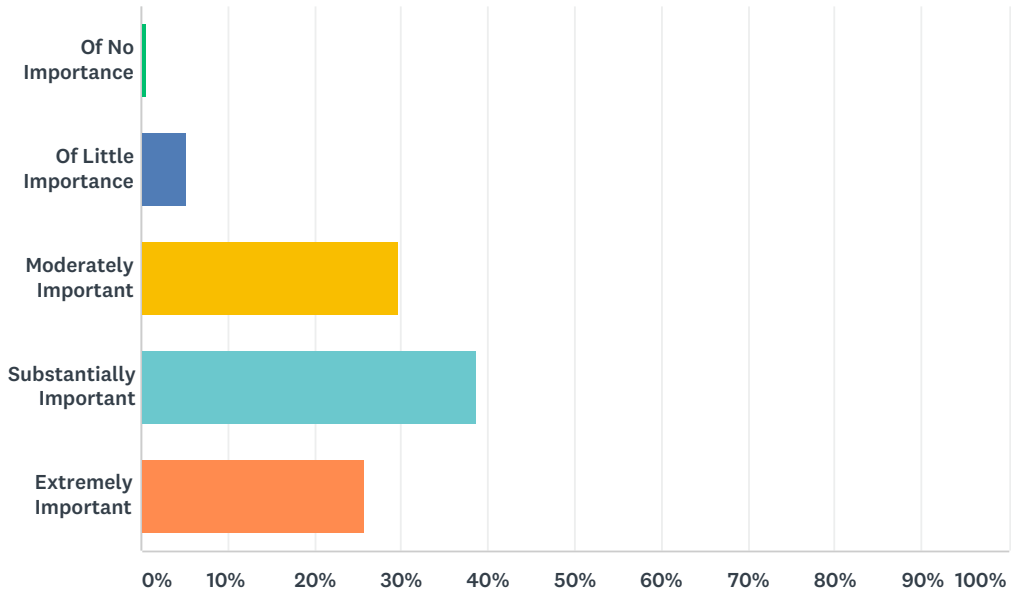


ANSWER CHOICES	RESPONSES	
Never	0.57%	3
Rarely	5.49%	29
Sometimes	22.35%	118
Often	41.29%	218
Repetitively	30.30%	160
TOTAL		528

Q46 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 520 Skipped: 508

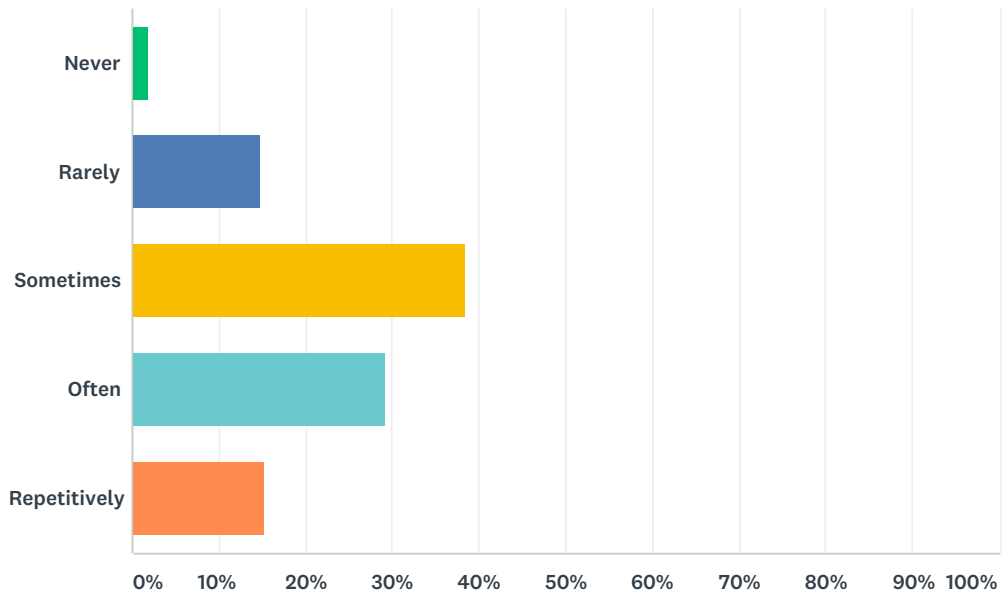
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Of No Importance	0.58% 3
Of Little Importance	5.19% 27
Moderately Important	29.81% 155
Substantially Important	38.65% 201
Extremely Important	25.77% 134
TOTAL	520

Q47 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 522 Skipped: 506

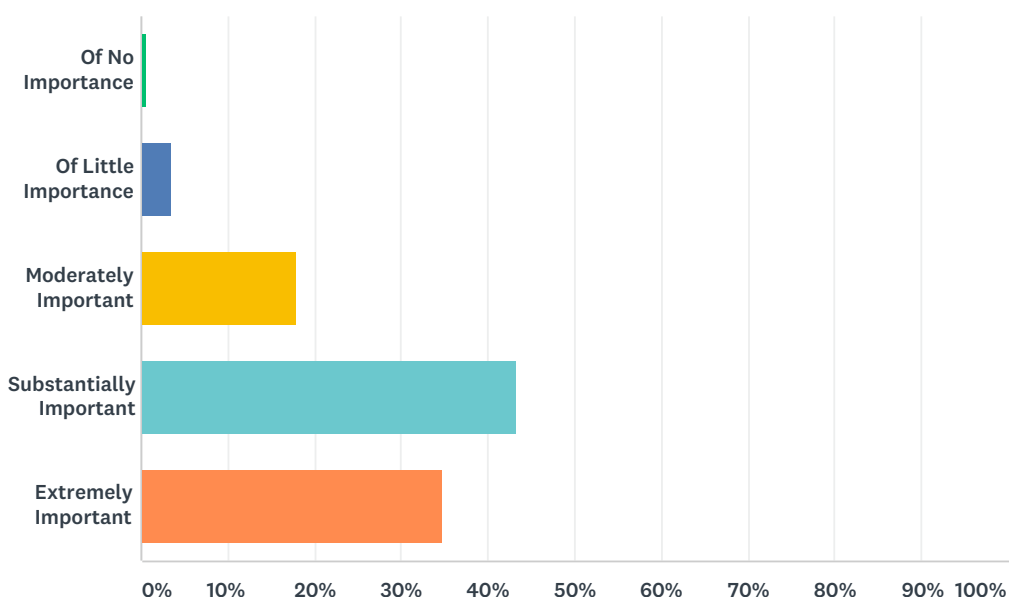


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	1.92%	10
Rarely	14.94%	78
Sometimes	38.51%	201
Often	29.31%	153
Repetitively	15.33%	80
TOTAL		522

Q48 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 519 Skipped: 509

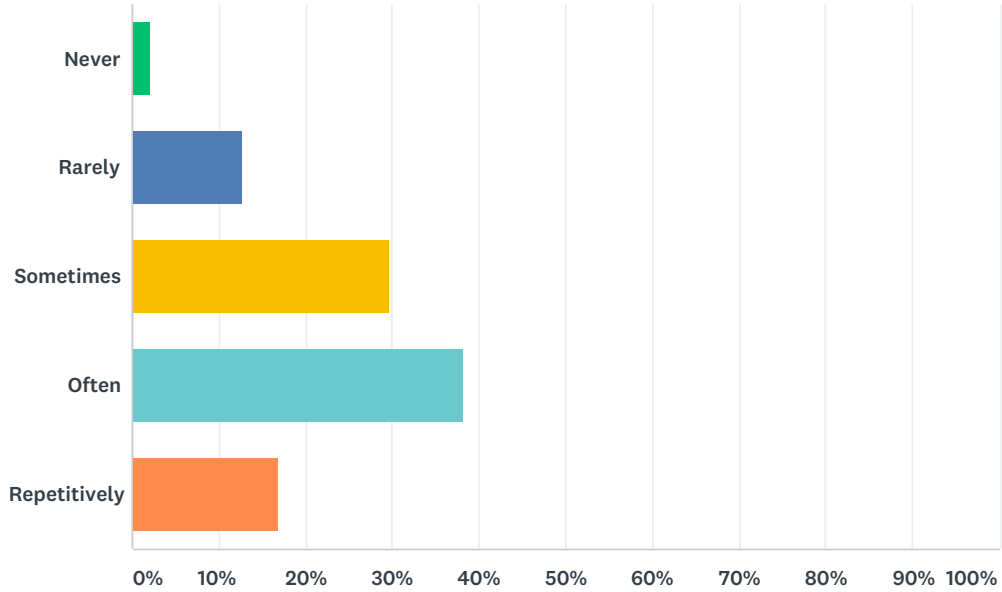


ANSWER CHOICES	RESPONSES	
Of No Importance	0.58%	3
Of Little Importance	3.47%	18
Moderately Important	17.92%	93
Substantially Important	43.35%	225
Extremely Important	34.68%	180
TOTAL		519

Q49 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 517 Skipped: 511

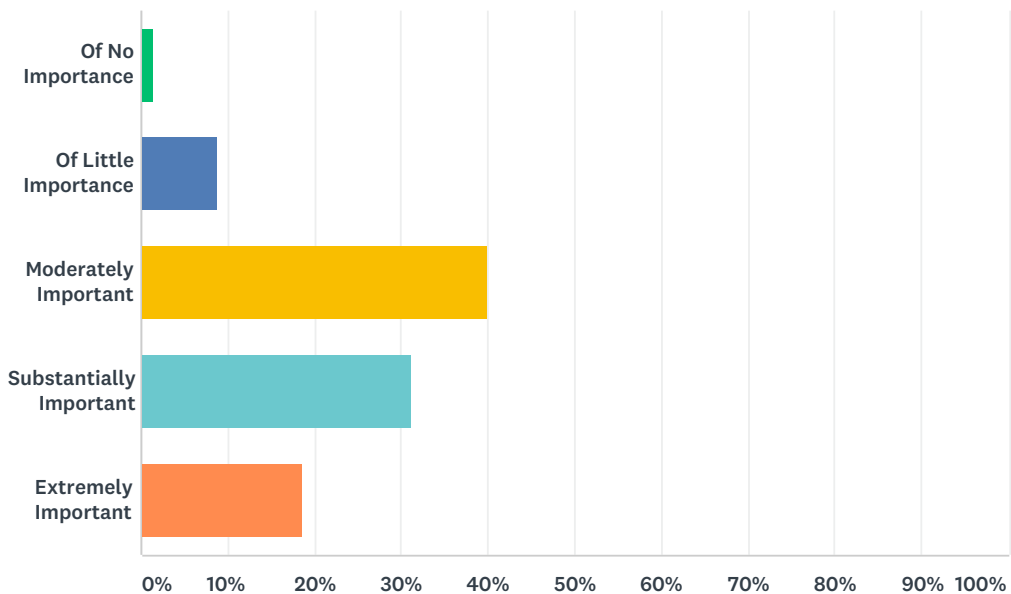
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	2.13% 11
Rarely	12.77% 66
Sometimes	29.79% 154
Often	38.30% 198
Repetitively	17.02% 88
TOTAL	517

Q50 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 518 Skipped: 510

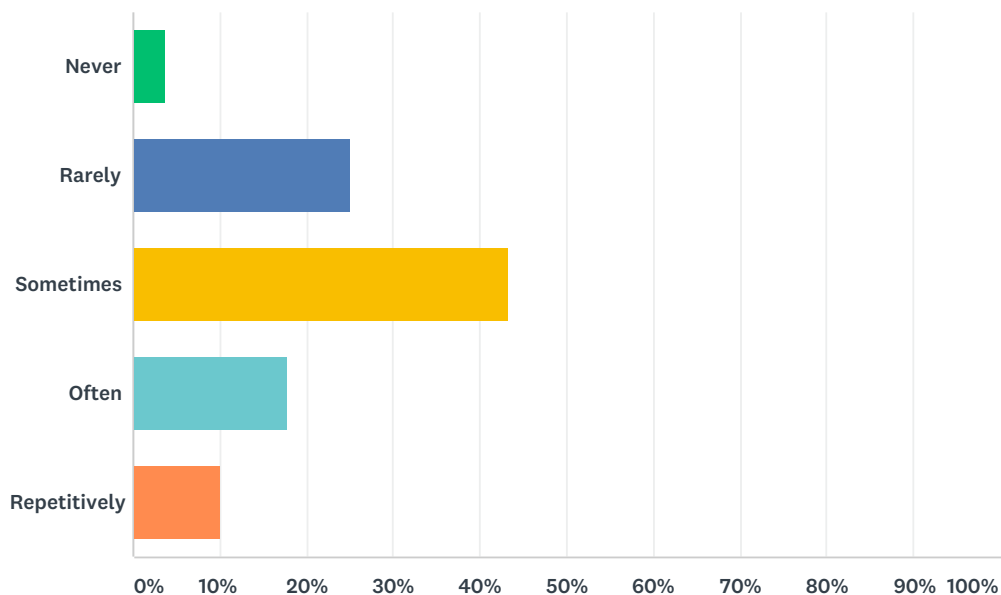


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	1.54%	8
Of Little Importance	8.69%	45
Moderately Important	39.96%	207
Substantially Important	31.27%	162
Extremely Important	18.53%	96
TOTAL		518

Q51 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 519 Skipped: 509

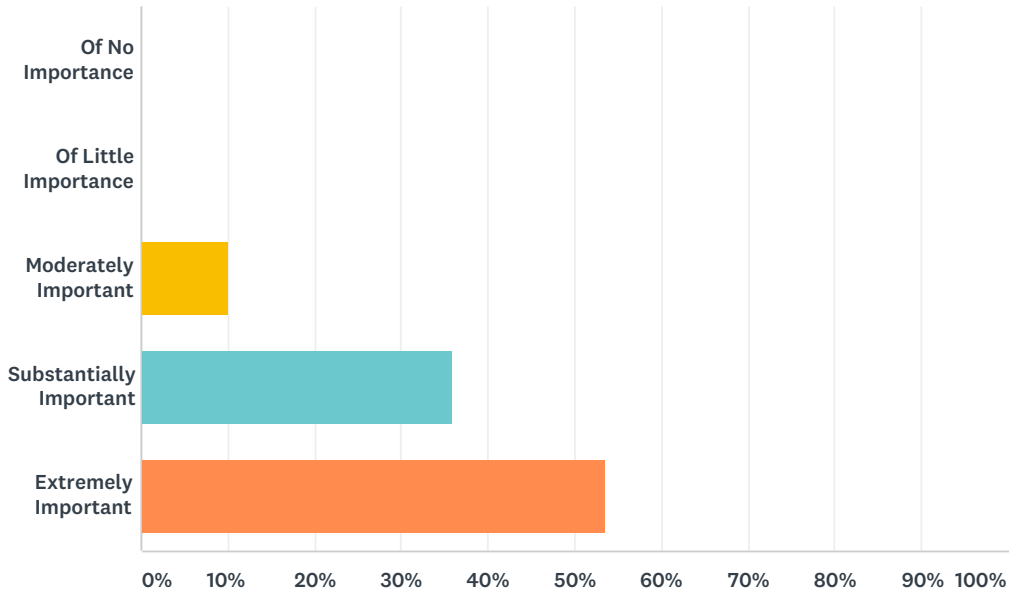


ANSWER CHOICES	RESPONSES	
Never	3.85%	20
Rarely	25.05%	130
Sometimes	43.35%	225
Often	17.73%	92
Repetitively	10.02%	52
TOTAL		519

Q52 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 520 Skipped: 508

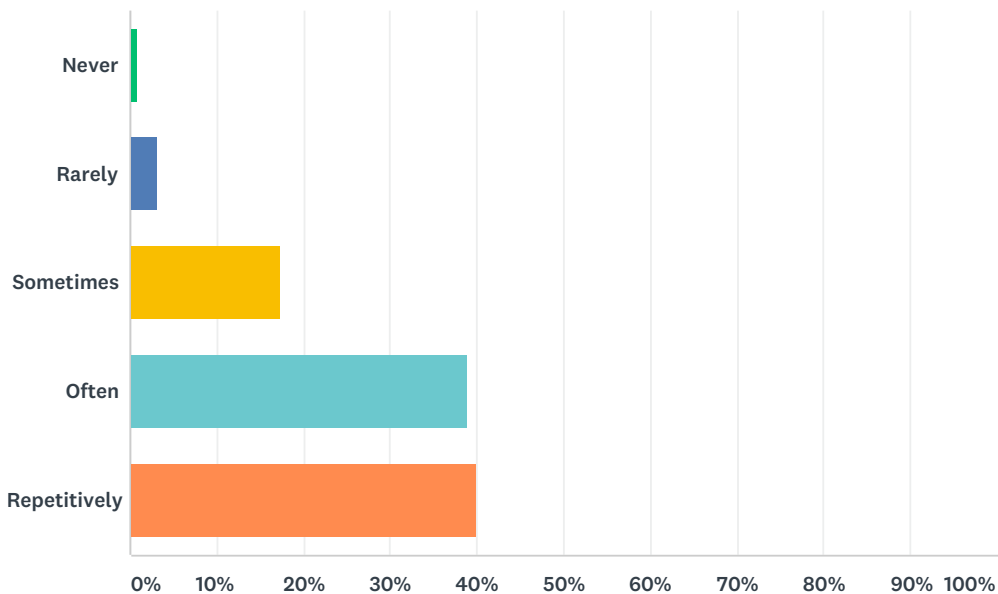
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Of No Importance	0.19% 1
Of Little Importance	0.19% 1
Moderately Important	10.00% 52
Substantially Important	35.96% 187
Extremely Important	53.65% 279
TOTAL	520

Q53 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 521 Skipped: 507

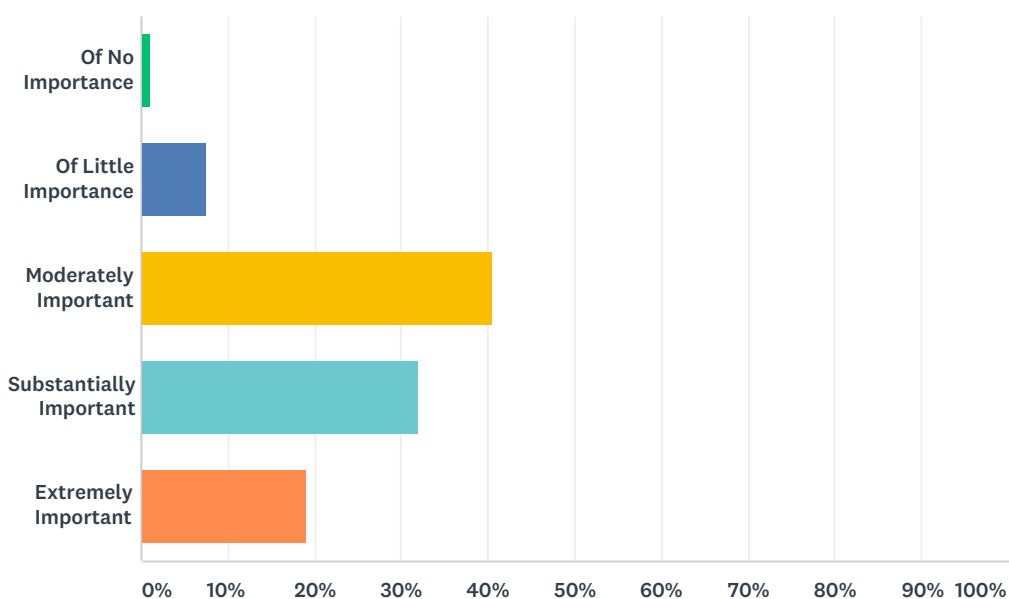


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	0.77%	4
Rarely	3.07%	16
Sometimes	17.27%	90
Often	38.96%	203
Repetitively	39.92%	208
TOTAL		521

Q54 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 516 Skipped: 512

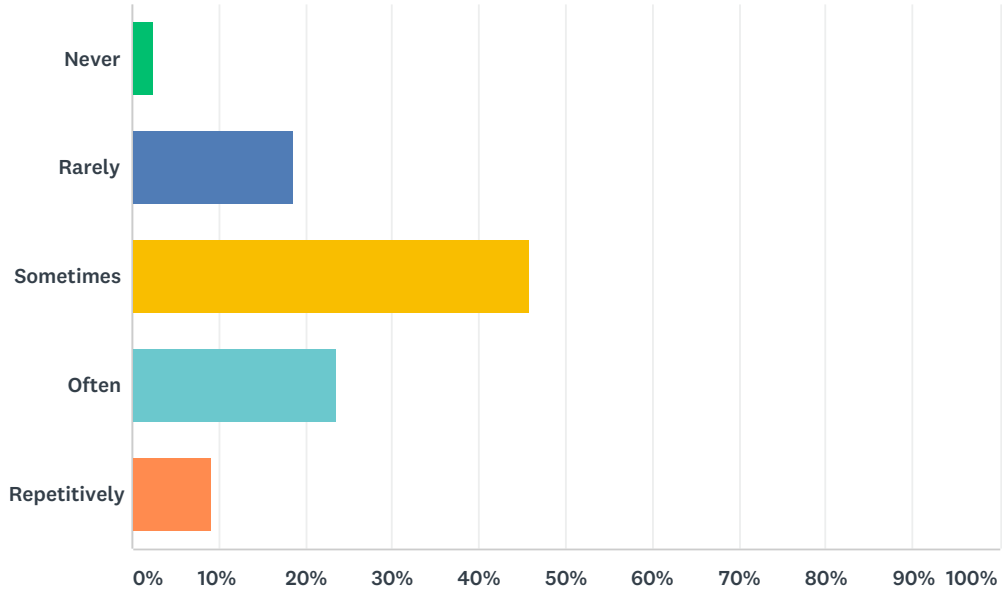


ANSWER CHOICES	RESPONSES	
Of No Importance	0.97%	5
Of Little Importance	7.56%	39
Moderately Important	40.50%	209
Substantially Important	31.98%	165
Extremely Important	18.99%	98
TOTAL		516

Q55 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 514 Skipped: 514

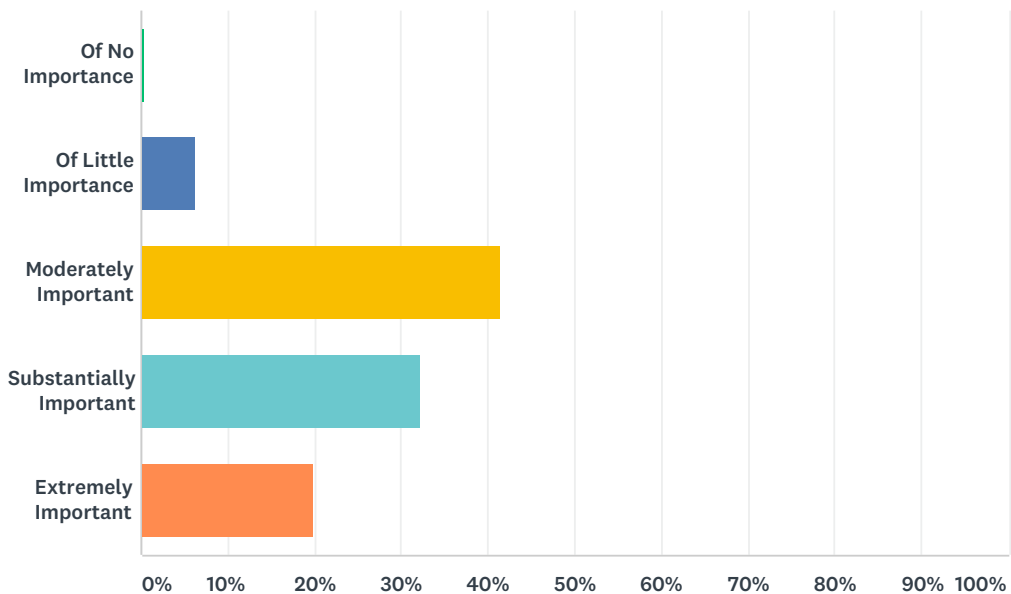
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	2.53% 13
Rarely	18.68% 96
Sometimes	45.91% 236
Often	23.74% 122
Repetitively	9.14% 47
TOTAL	514

Q56 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 515 Skipped: 513

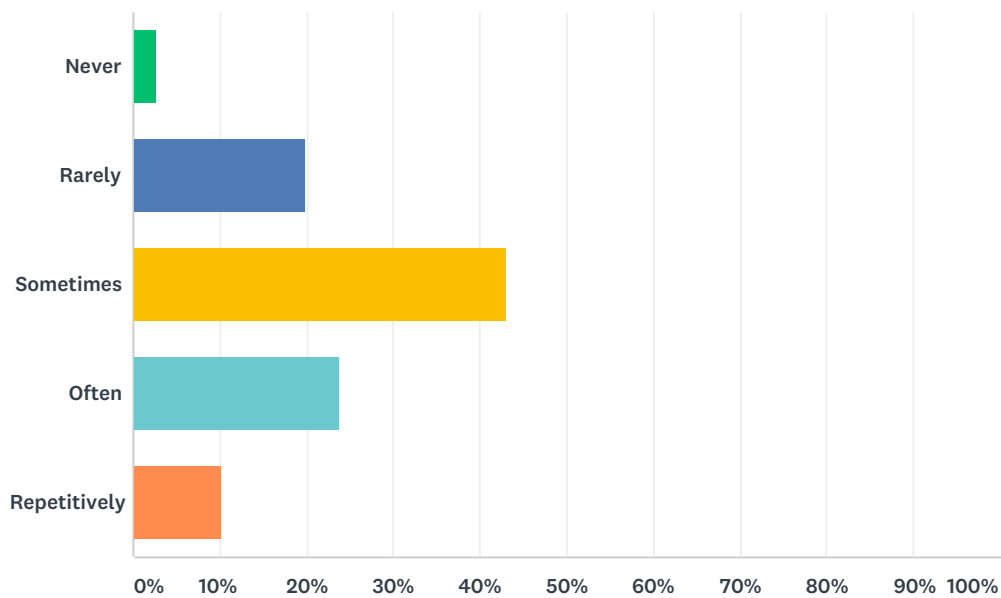


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	0.39%	2
Of Little Importance	6.21%	32
Moderately Important	41.36%	213
Substantially Important	32.23%	166
Extremely Important	19.81%	102
TOTAL		515

Q57 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 514 Skipped: 514

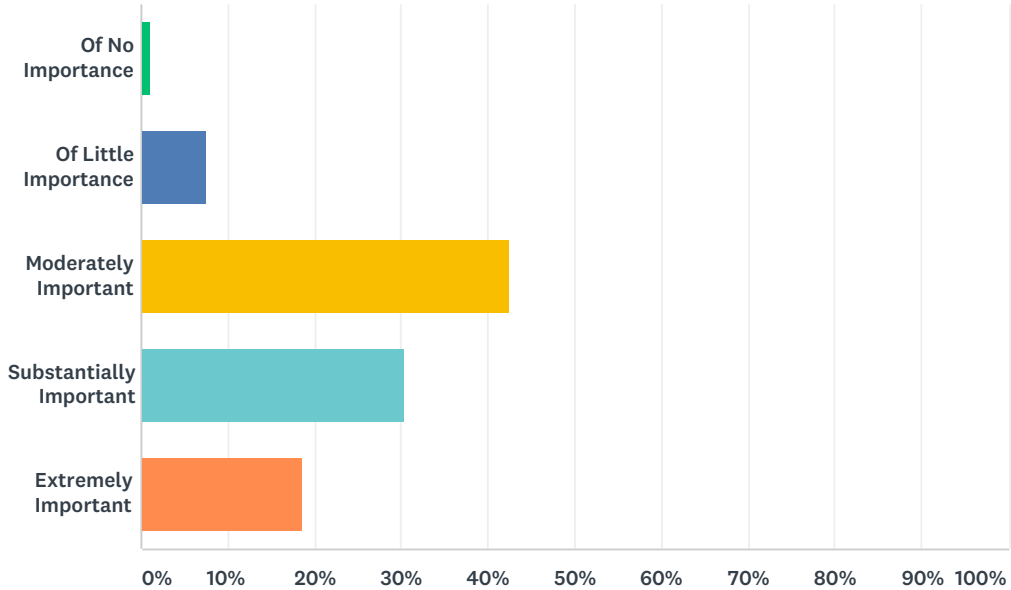


ANSWER CHOICES	RESPONSES	
Never	2.72%	14
Rarely	19.84%	102
Sometimes	43.19%	222
Often	23.93%	123
Repetitively	10.31%	53
TOTAL		514

Q58 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 513 Skipped: 515

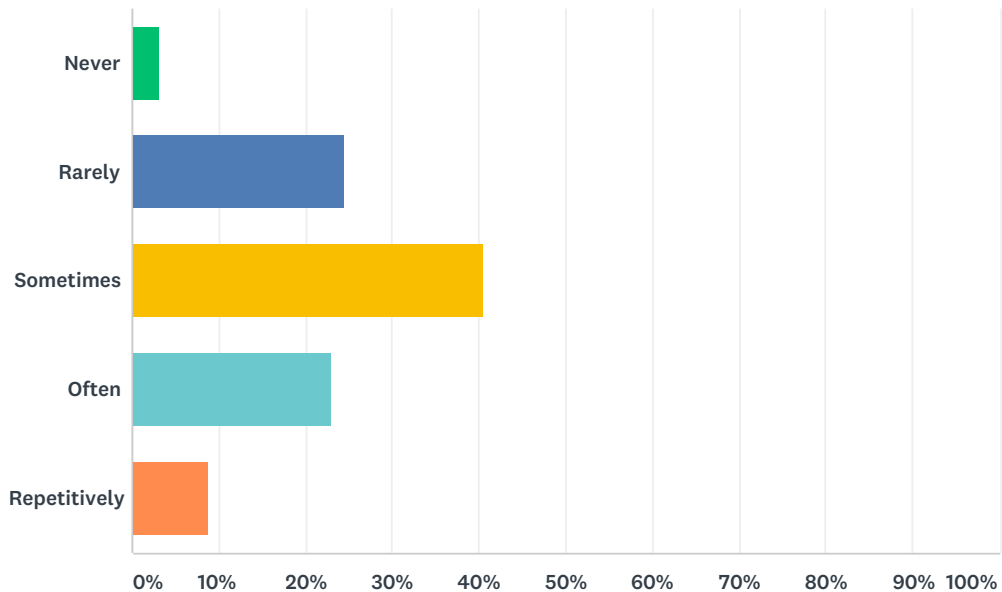
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES	
Of No Importance	0.97%	5
Of Little Importance	7.60%	39
Moderately Important	42.50%	218
Substantially Important	30.41%	156
Extremely Important	18.52%	95
TOTAL		513

Q59 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 515 Skipped: 513

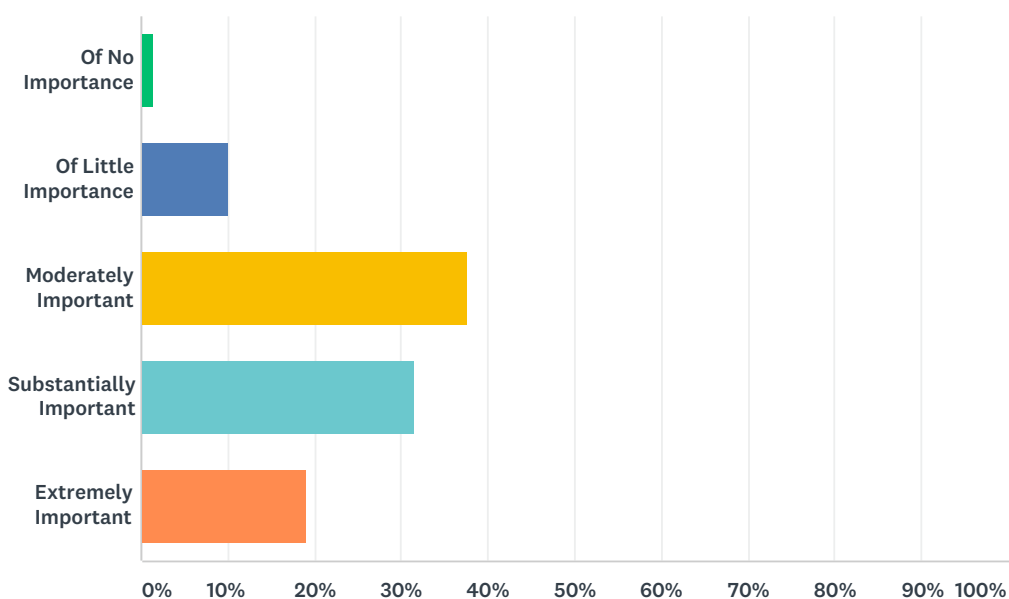


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	3.11%	16
Rarely	24.47%	126
Sometimes	40.58%	209
Often	23.11%	119
Repetitively	8.74%	45
TOTAL		515

Q60 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 518 Skipped: 510

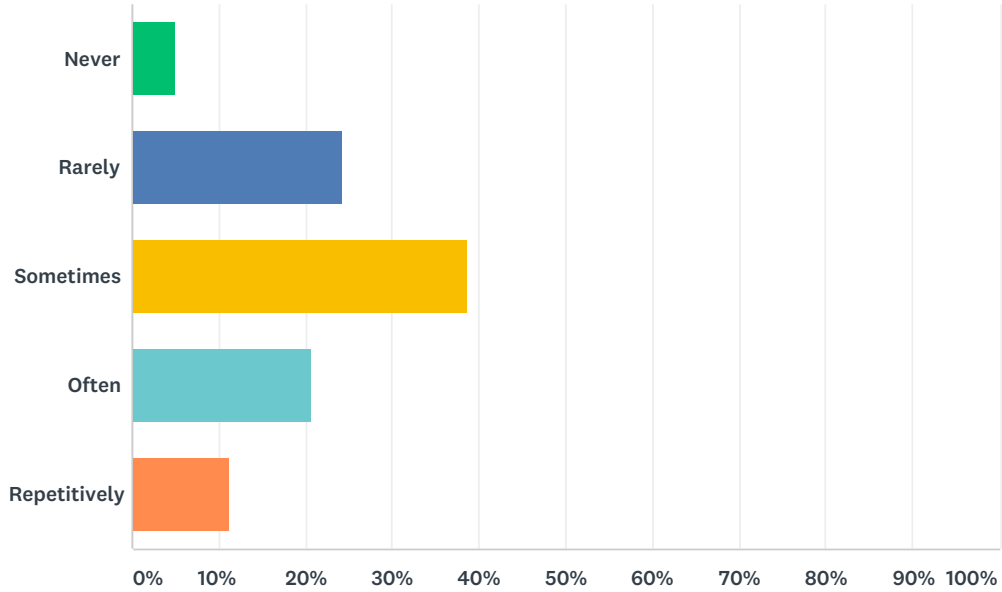


ANSWER CHOICES	RESPONSES	
Of No Importance	1.54%	8
Of Little Importance	10.04%	52
Moderately Important	37.64%	195
Substantially Important	31.66%	164
Extremely Important	19.11%	99
TOTAL		518

Q61 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 518 Skipped: 510

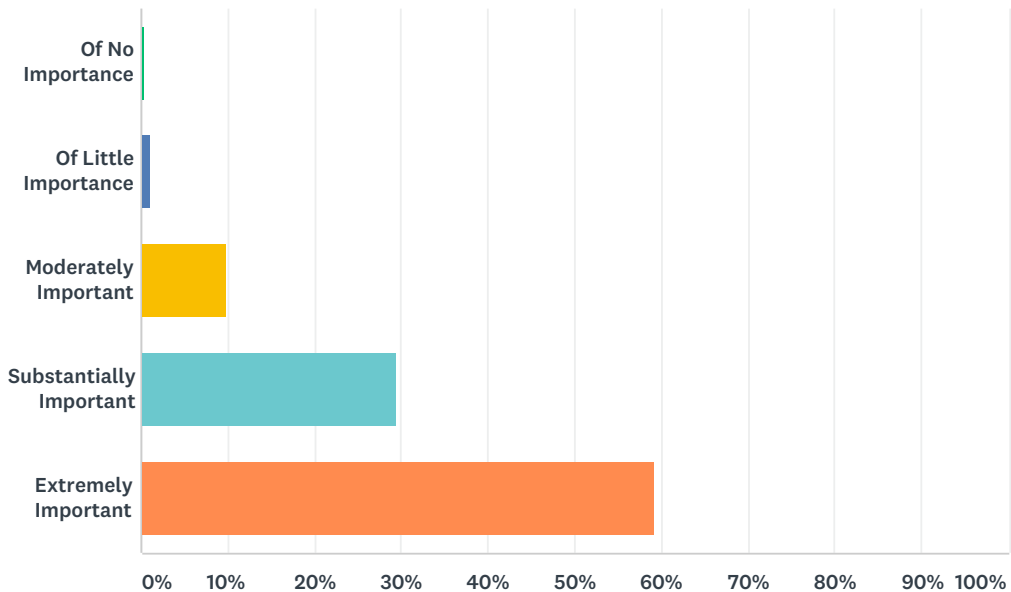
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES	
Never	5.02%	26
Rarely	24.32%	126
Sometimes	38.61%	200
Often	20.66%	107
Repetitively	11.39%	59
TOTAL		518

Q62 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 516 Skipped: 512

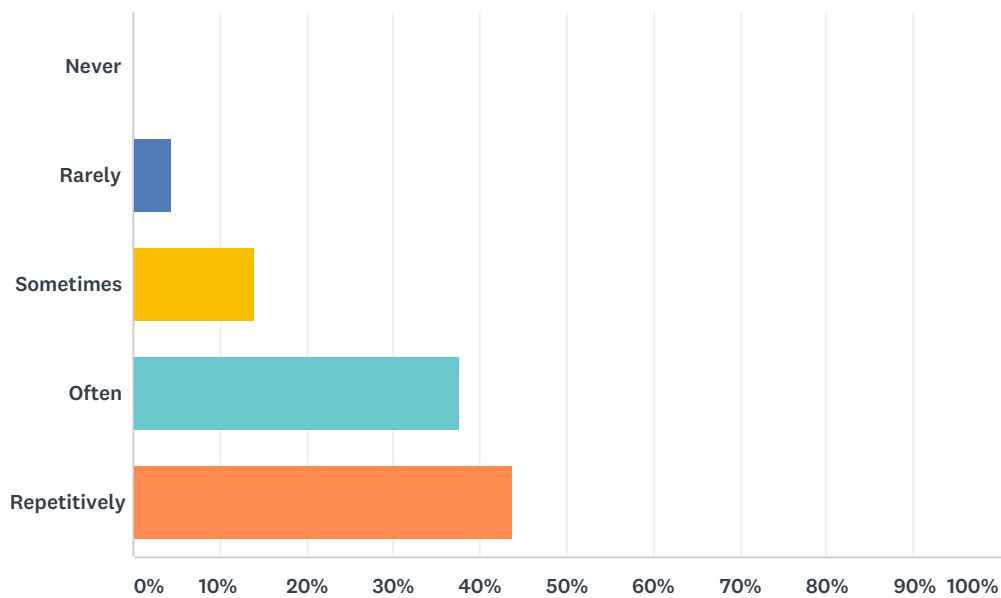


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Of No Importance	0.39%	2
Of Little Importance	0.97%	5
Moderately Important	9.88%	51
Substantially Important	29.46%	152
Extremely Important	59.30%	306
TOTAL		516

Q63 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 516 Skipped: 512

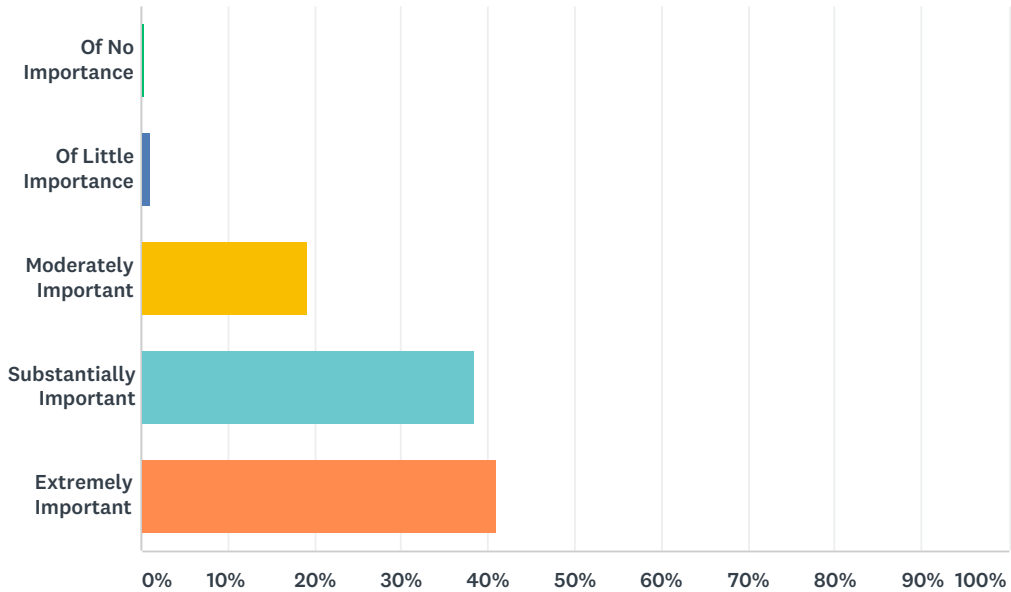


ANSWER CHOICES	RESPONSES	
Never	0.19%	1
Rarely	4.46%	23
Sometimes	13.95%	72
Often	37.60%	194
Repetitively	43.80%	226
TOTAL		516

Q64 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 515 Skipped: 513

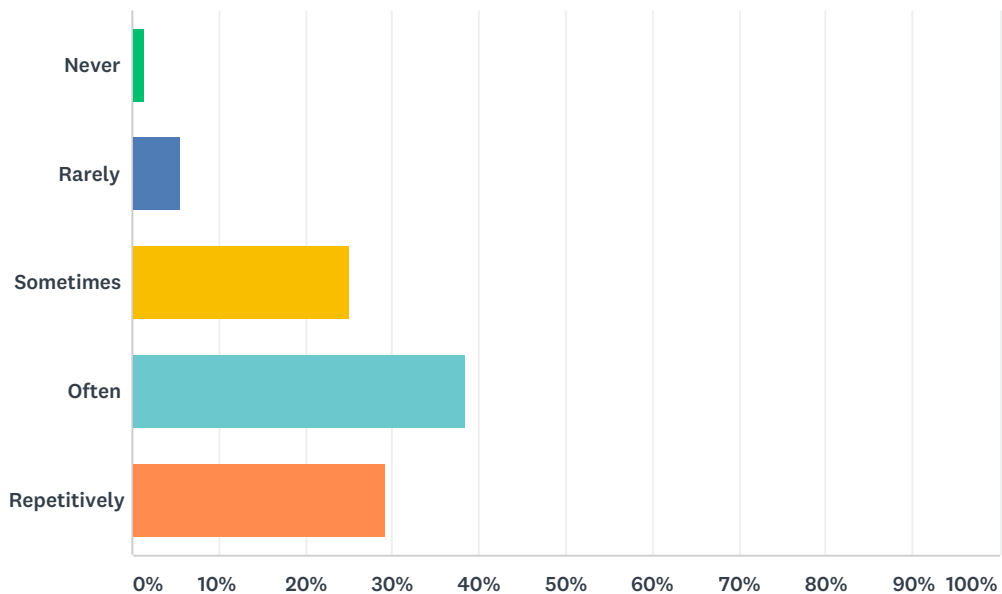
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Of No Importance	0.39% 2
Of Little Importance	0.97% 5
Moderately Important	19.22% 99
Substantially Important	38.45% 198
Extremely Important	40.97% 211
TOTAL	515

Q65 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 515 Skipped: 513

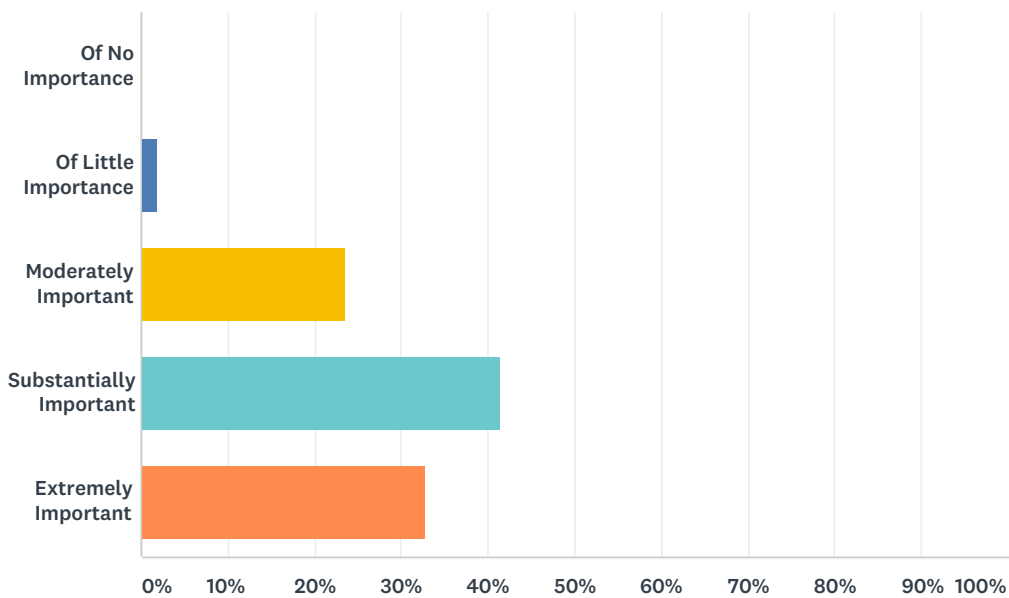


Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
Never	1.55%	8
Rarely	5.63%	29
Sometimes	25.05%	129
Often	38.45%	198
Repetitively	29.32%	151
TOTAL		515

Q66 Importance: How important is this task in the role of a minimally competent Trauma Program Manager?

Answered: 517 Skipped: 511

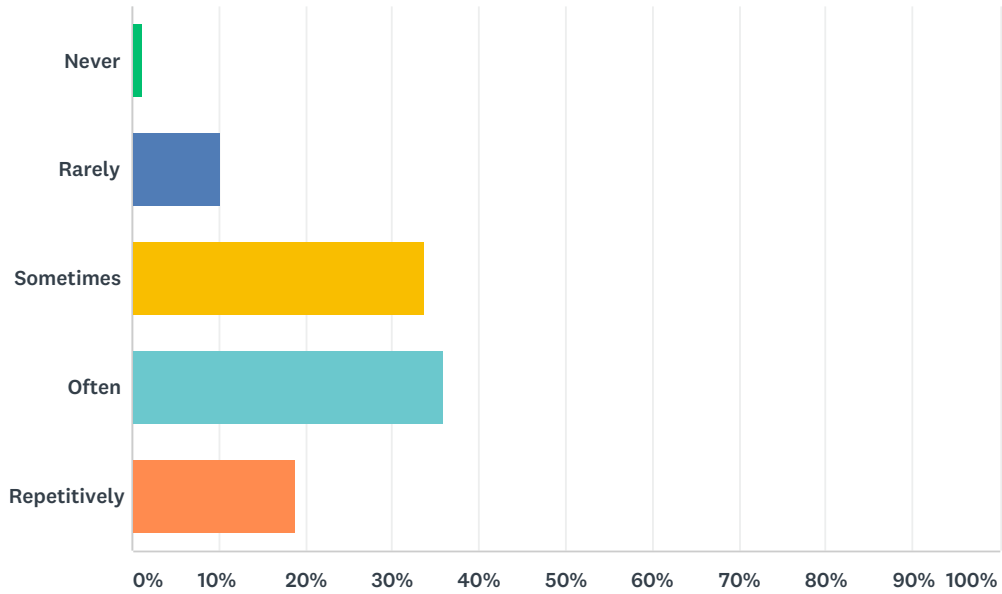


ANSWER CHOICES	RESPONSES	
Of No Importance	0.19%	1
Of Little Importance	1.93%	10
Moderately Important	23.60%	122
Substantially Important	41.39%	214
Extremely Important	32.88%	170
TOTAL		517

Q67 Frequency: How frequently does a minimally competent Trauma Program Manager use this task?

Answered: 517 Skipped: 511

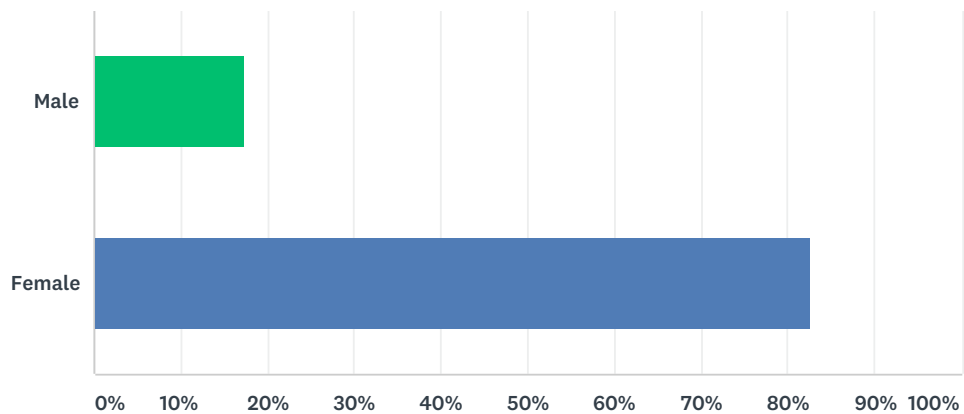
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Never	1.35% 7
Rarely	10.25% 53
Sometimes	33.66% 174
Often	35.98% 186
Repetitively	18.76% 97
TOTAL	517

Q68 1. What is your gender?

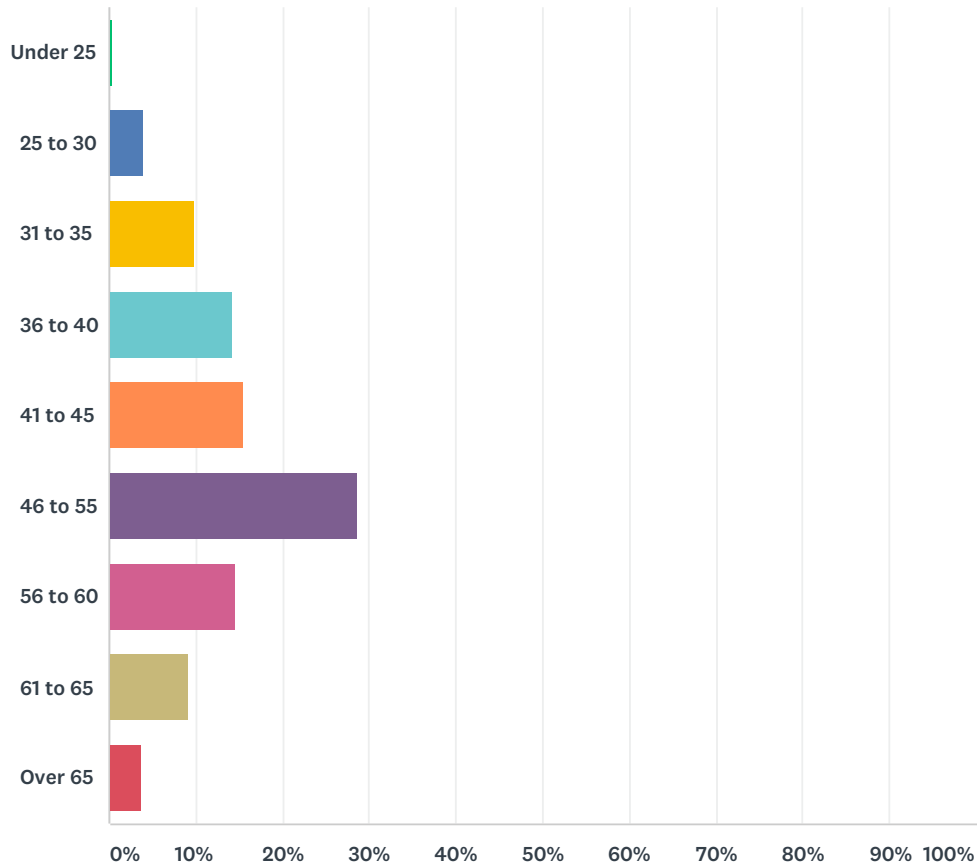
Answered: 513 Skipped: 515



ANSWER CHOICES	RESPONSES
Male	17.35% 89
Female	82.65% 424
TOTAL	513

Q69 2. What is your age?

Answered: 514 Skipped: 514

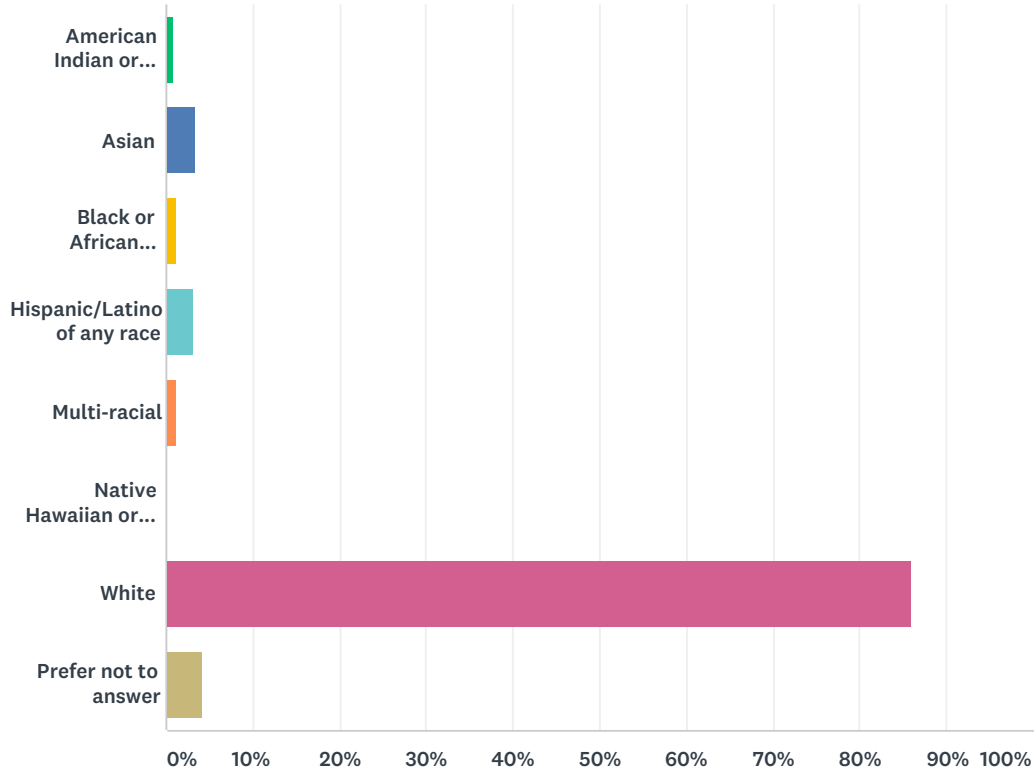


ANSWER CHOICES	RESPONSES	
Under 25	0.39%	2
25 to 30	3.89%	20
31 to 35	9.92%	51
36 to 40	14.20%	73
41 to 45	15.56%	80
46 to 55	28.60%	147
56 to 60	14.59%	75
61 to 65	9.14%	47
Over 65	3.70%	19
TOTAL		514

Q70 3. What is your Ethnicity?

Answered: 513 Skipped: 515

Appendix F: TPM Validation Survey Summary

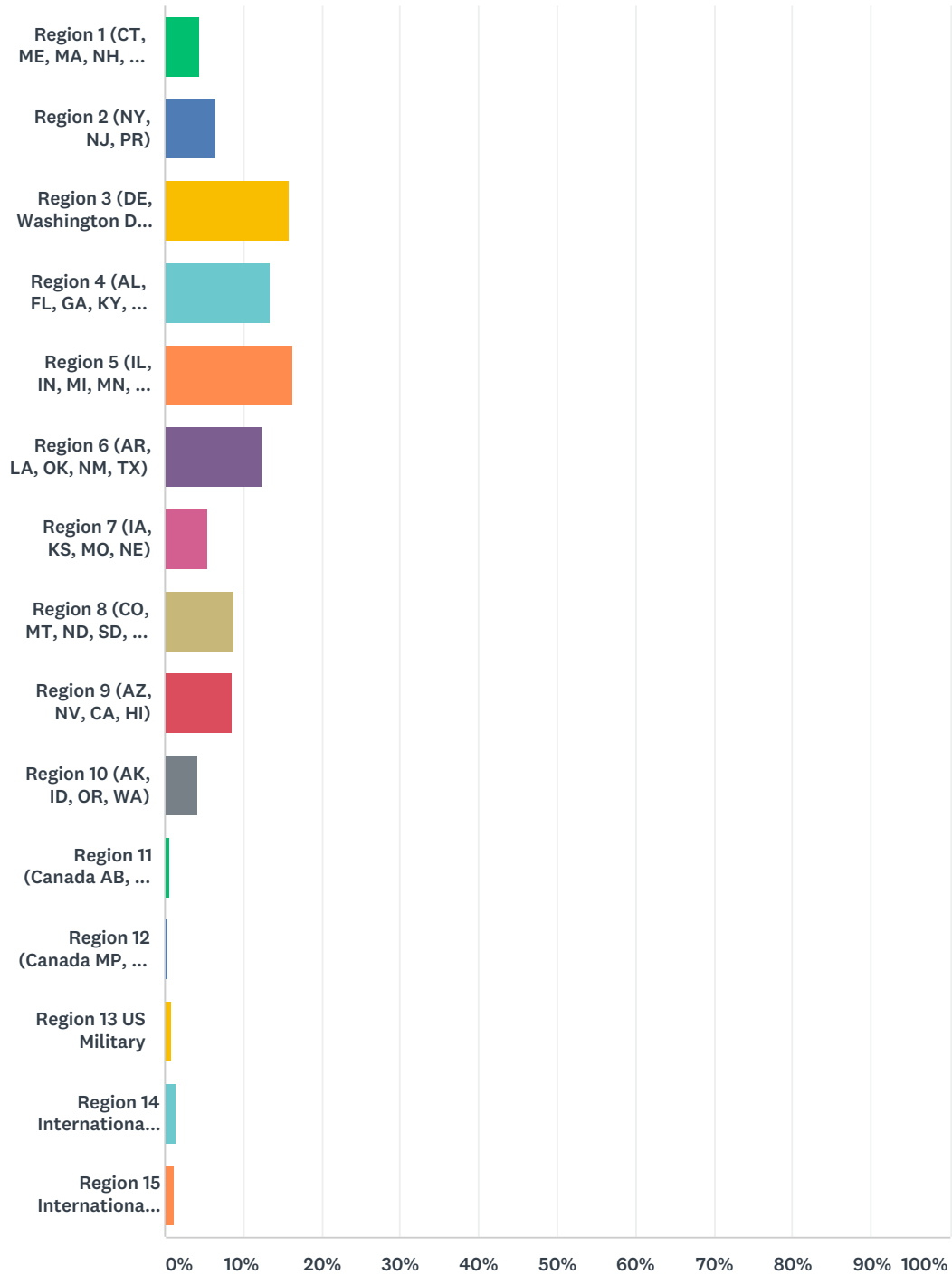


ANSWER CHOICES	RESPONSES	
American Indian or Alaska Native	0.78%	4
Asian	3.31%	17
Black or African American	1.17%	6
Hispanic/Latino of any race	3.12%	16
Multi-racial	1.17%	6
Native Hawaiian or Other Pacific Islander	0.19%	1
White	85.96%	441
Prefer not to answer	4.29%	22
TOTAL		513

Q71 4. In what region are you located?

Answered: 487 Skipped: 541

Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES	
Region 1 (CT, ME, MA, NH, RI, VT)	4.31%	21
Region 2 (NY, NJ, PR)	6.57%	32
Region 3 (DE, Washington DC, MD, PA, VA, WV, Virgin Islands)	15.81%	77
Region 4 (AL, FL, GA, KY, MS, NC, SC, TN)	13.35%	65
Region 5 (IL, IN, MI, MN, OH, WI)	16.22%	79
Region 6 (AR, LA, OK, NM, TX)	12.32%	60

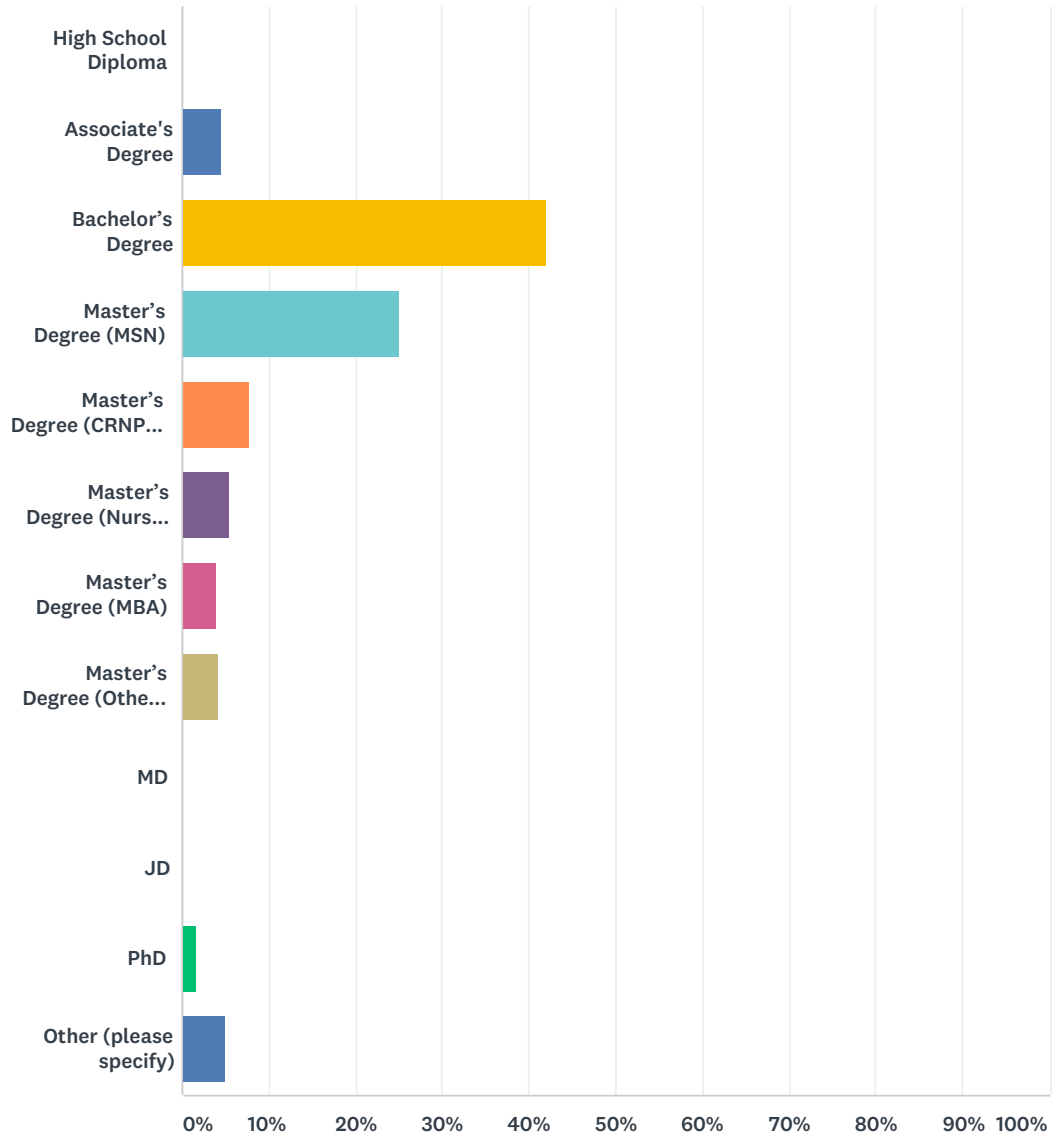
Appendix F: TPM Validation Survey Summary

Region 7 (IA, KS, MO, NE)	5.34%	26
Region 8 (CO, MT, ND, SD, UT, WY)	8.83%	43
Region 9 (AZ, NV, CA, HI)	8.62%	42
Region 10 (AK, ID, OR, WA)	4.11%	20
Region 11 (Canada AB, BC, MB, SK)	0.62%	3
Region 12 (Canada MP, NW, ON, PQ)	0.41%	2
Region 13 US Military	0.82%	4
Region 14 International (Europe)	1.44%	7
Region 15 International (China, Australia, New Zealand, Middle East)	1.23%	6
TOTAL		487

Q72 5. What is your highest level of education?

Answered: 514 Skipped: 514

Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES	
High School Diploma	0.00%	0
Associate's Degree	4.67%	24
Bachelor's Degree	42.02%	216
Master's Degree (MSN)	25.10%	129
Master's Degree (CRNP, CNS)	7.78%	40
Master's Degree (Nursing Administration)	5.45%	28
Master's Degree (MBA)	3.89%	20
Master's Degree (Other, Non-Nursing)	4.28%	22
MD	0.00%	0
JD	0.00%	0
PhD	1.75%	9
Other (please specify)	5.06%	26

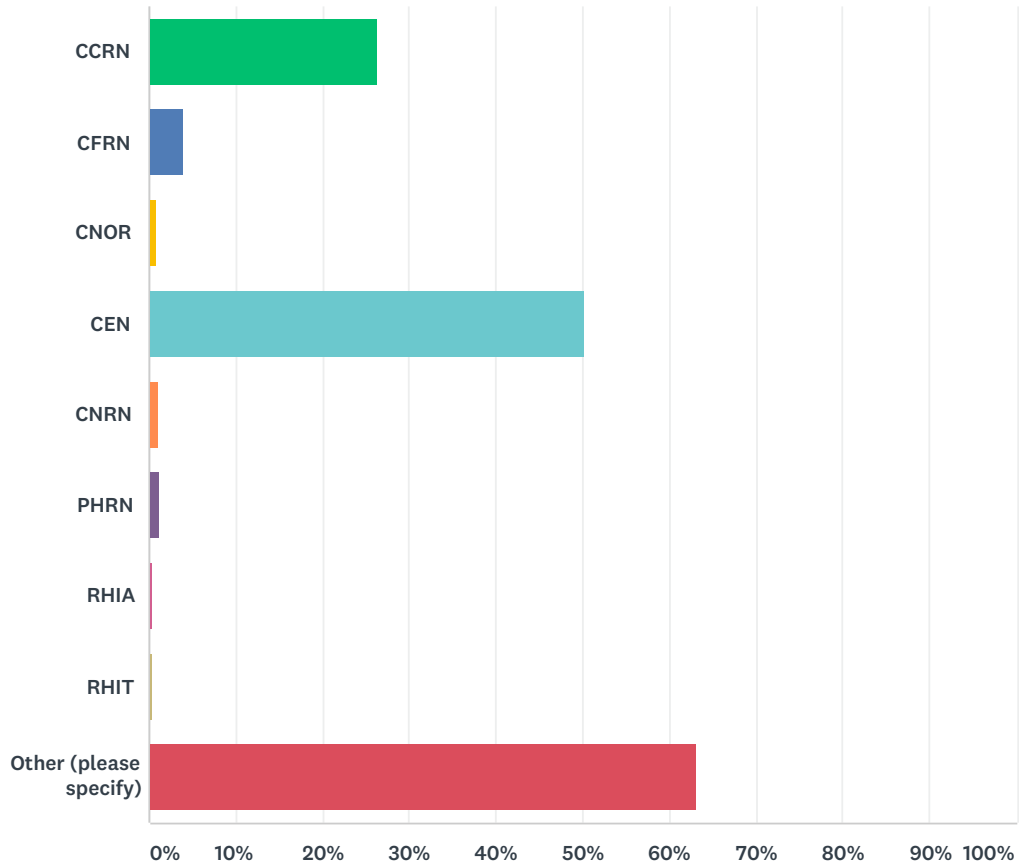
Appendix F: TPM Validation Survey Summary

TOTAL		514
#	OTHER (PLEASE SPECIFY)	DATE
1	ADN-BSN incomplete	2/12/2018 1:32 PM
2	DNP	2/9/2018 8:13 PM
3	Bachelor's of Art, Bachelor's in Law, Bachelor's in Nursing, Mater's Degree (MBA)	2/8/2018 12:34 AM
4	DNP	2/6/2018 9:48 AM
5	Master's in progress	2/6/2018 9:26 AM
6	MSN/MBA	2/5/2018 6:29 PM
7	BSN with MPH candidate	2/5/2018 10:41 AM
8	MSN/MBA	1/29/2018 10:21 PM
9	MSN IN COMMUNITY PUBLIC HEALTH/CNS PROGRAM& POST MASTERS,NURSING EDUCATION	1/29/2018 8:10 PM
10	DNP	1/29/2018 6:53 PM
11	currently in a DNP CRNA program	1/28/2018 10:37 AM
12	Licenciado en enfermería	1/24/2018 5:07 PM
13	MSN and post-master certificate ACNP	1/23/2018 4:42 PM
14	Post Masters Degree	1/23/2018 3:42 PM
15	DNP	1/23/2018 3:16 PM
16	MBA candidate	1/23/2018 2:40 PM
17	DNP	1/23/2018 12:53 PM
18	EdD	1/23/2018 11:02 AM
19	Associates Degree Nursing in Masters Bridge Program	1/23/2018 9:34 AM
20	Doctorate - CNS	1/22/2018 5:58 PM
21	Diploma Nurse	1/22/2018 3:26 PM
22	RN Diploma	1/22/2018 2:12 PM
23	DNP course in process	1/22/2018 1:37 PM
24	Educated in uk	1/22/2018 1:24 PM
25	MHA	1/22/2018 1:20 PM
26	Post Masters NP certificate	1/22/2018 1:14 PM

Q73 6. Please disclose your professional certifications. (Please select all that apply.)

Answered: 394 Skipped: 634

Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
CCRN	26.40% 104
CFRN	4.06% 16
CNOR	0.76% 3
CEN	50.25% 198
CNRN	1.02% 4
PHRN	1.27% 5
RHIA	0.51% 2
RHIT	0.51% 2
Other (please specify)	63.20% 249
Total Respondents: 394	

#	OTHER (PLEASE SPECIFY)	DATE
1	CPEN	2/19/2018 11:42 AM
2	Tcrn	2/18/2018 8:43 PM
3	TCRN	2/18/2018 4:06 AM
4	TCRN	2/17/2018 3:07 PM
5	CAISS, CSTR	2/15/2018 12:54 PM
6	Tcrn	2/15/2018 10:48 AM
7	TCRN	2/14/2018 4:29 PM

Appendix F: TPM Validation Survey Summary

8	TCRN, NEBC	2/14/2018 10:02 AM
9	TCRN, CPEN	2/13/2018 5:23 PM
10	CPEN, TCRN	2/13/2018 9:21 AM
11	TCRN	2/12/2018 11:54 PM
12	TCRN	2/12/2018 7:54 PM
13	TCRN	2/12/2018 7:51 PM
14	TCRN	2/12/2018 4:35 PM
15	TCRN	2/12/2018 3:53 PM
16	TCRN	2/12/2018 3:47 PM
17	TCRN	2/12/2018 3:23 PM
18	FNP-BC	2/12/2018 3:22 PM
19	TCRN	2/12/2018 2:52 PM
20	PCNS-BC	2/12/2018 2:26 PM
21	CPEN	2/12/2018 2:20 PM
22	none	2/12/2018 2:00 PM
23	CPEN,CPN	2/12/2018 1:57 PM
24	TCRN	2/12/2018 1:49 PM
25	TCRN	2/12/2018 1:38 PM
26	TCRN	2/12/2018 1:38 PM
27	TCRN	2/12/2018 1:32 PM
28	TCRN	2/9/2018 8:13 PM
29	CRNA	2/8/2018 9:58 AM
30	Diploma in General Nursing and Midwifery, Post Basic B.SC. Nursing, Bachelor's in Law	2/8/2018 12:34 AM
31	CPEN, ATCN	2/7/2018 9:10 PM
32	NE-BC	2/7/2018 3:40 PM
33	TCRN	2/7/2018 2:32 PM
34	TNS, TNCC instructor, ENPC Instructor	2/7/2018 9:42 AM
35	TCRN	2/6/2018 9:46 PM
36	TCRN	2/6/2018 4:41 PM
37	TCRN	2/6/2018 1:36 PM
38	TNCC	2/6/2018 12:03 PM
39	CPEN	2/6/2018 10:02 AM
40	TCRN	2/6/2018 9:48 AM
41	TCRN	2/6/2018 9:26 AM
42	TNS	2/5/2018 11:01 PM
43	TCRN, PANC (C)	2/5/2018 9:57 PM
44	TCRN	2/5/2018 8:57 PM
45	ACNS-BC	2/5/2018 8:18 PM
46	TCRN	2/5/2018 6:29 PM
47	TCRN	2/5/2018 5:39 PM

Appendix F: TPM Validation Survey Summary

48	CPEN, SANE-A,FNP-BC	2/5/2018 5:27 PM
49	CRNA FNP	2/5/2018 4:28 PM
50	Tcrn	2/5/2018 3:36 PM
51	TCRN	2/5/2018 3:06 PM
52	TCRN	2/5/2018 2:51 PM
53	CNL - Clinical Nurse Leader	2/5/2018 2:36 PM
54	AGCNS	2/5/2018 2:25 PM
55	TCRN	2/5/2018 2:08 PM
56	TCRN	2/5/2018 2:00 PM
57	TCRN	2/5/2018 1:58 PM
58	TCRN	2/5/2018 1:54 PM
59	CNL, TCRN	2/5/2018 1:45 PM
60	Paramedic	2/5/2018 1:35 PM
61	RNC-OB, C-EFM	2/5/2018 1:35 PM
62	CPEN	2/5/2018 1:34 PM
63	Crna	2/5/2018 1:20 PM
64	TCRN	2/5/2018 1:20 PM
65	TCRN	2/5/2018 1:19 PM
66	CPN, CPST, currently preparing for TCRN	2/5/2018 1:13 PM
67	ATLS, TNCC, ACLS, PALS, PHTC	2/5/2018 10:13 AM
68	TCRN	2/3/2018 12:02 PM
69	TCRN, RN-BC, CCEMT-P, NREMT-P	2/2/2018 7:54 AM
70	TCRN, NE-BC	2/1/2018 4:56 PM
71	TCRN	2/1/2018 4:37 PM
72	TCRN, CCRN-K, ACCNS-AG	2/1/2018 3:07 PM
73	TCRN	1/31/2018 6:24 PM
74	TCRN	1/31/2018 6:20 PM
75	TCRN; ACNP-BC	1/31/2018 3:41 PM
76	NEA-BC	1/31/2018 3:36 PM
77	RN-BC, TCRN, WCC	1/31/2018 1:15 PM
78	CPEN	1/31/2018 6:31 AM
79	BC medical-surgical nursing	1/30/2018 8:02 PM
80	HOPEFUL TCRN EXAMINEE	1/30/2018 5:32 PM
81	CCNS , TCRN	1/30/2018 5:21 PM
82	CPEN	1/30/2018 4:50 PM
83	ATCN, TNCC	1/30/2018 2:56 PM
84	TCRN	1/30/2018 2:18 PM
85	tcrn	1/30/2018 1:04 PM
86	TNS	1/30/2018 9:15 AM
87	TCRN	1/30/2018 7:43 AM
88	ACNP, ANP, CCNS	1/29/2018 11:29 PM

Appendix F: TPM Validation Survey Summary

89	TCRN	1/29/2018 11:10 PM
90	TCRN	1/29/2018 9:59 PM
91	TCRN	1/29/2018 8:15 PM
92	POSTMASTERS CERTIFICATE	1/29/2018 8:10 PM
93	TCRN, CCNS	1/29/2018 6:53 PM
94	NEA-BC	1/29/2018 5:34 PM
95	TCRN, CSTR, CAISS	1/29/2018 4:56 PM
96	SCRN	1/29/2018 4:36 PM
97	TCRN	1/29/2018 4:12 PM
98	public health nurse (PHN)	1/29/2018 3:43 PM
99	TCRN	1/29/2018 3:38 PM
100	TCRN	1/29/2018 3:25 PM
101	TNS	1/29/2018 3:20 PM
102	CPEN	1/29/2018 3:16 PM
103	TCRN, CFN	1/29/2018 3:03 PM
104	TCRN, NEA-BC, FACHE	1/29/2018 3:02 PM
105	TCRN	1/29/2018 2:44 PM
106	CSTR, CAISS	1/29/2018 2:39 PM
107	TCRN, CTRN	1/29/2018 2:37 PM
108	TCRN, CPEN, EMT	1/29/2018 2:31 PM
109	CRNP PNP-BC	1/29/2018 2:22 PM
110	VA-BC, ECG-BC, ATCN, TNCC	1/29/2018 2:04 PM
111	TCRN	1/29/2018 1:53 PM
112	TCRN, CPEN, ATLS	1/29/2018 1:51 PM
113	TNS	1/29/2018 1:45 PM
114	TCRN	1/29/2018 1:37 PM
115	TCRN	1/29/2018 1:33 PM
116	TCRN	1/29/2018 1:27 PM
117	TCRN, CPEN, PHN	1/29/2018 1:25 PM
118	FNP-C	1/29/2018 1:21 PM
119	TCRN	1/29/2018 1:17 PM
120	CAISS	1/29/2018 1:12 PM
121	TCRN	1/29/2018 12:32 AM
122	CRNP	1/28/2018 12:47 PM
123	TCRN, CVN	1/27/2018 1:12 PM
124	TCRN, NRP	1/26/2018 1:31 PM
125	TCRN	1/26/2018 12:11 PM
126	TCRN	1/26/2018 7:35 AM
127	TCRN	1/25/2018 9:29 PM
128	NREMT	1/25/2018 5:04 PM
129	TCRN	1/25/2018 4:04 PM

Appendix F: TPM Validation Survey Summary

130	TCN	1/25/2018 3:29 PM
131	TCRN	1/25/2018 2:25 PM
132	Disaster Healthcare certification	1/25/2018 12:29 PM
133	ACNP	1/25/2018 11:50 AM
134	TCRN	1/25/2018 10:49 AM
135	TNS	1/25/2018 10:49 AM
136	TCRN	1/25/2018 10:48 AM
137	TCRN	1/25/2018 9:48 AM
138	TCRN	1/25/2018 9:11 AM
139	TCRN, CPEN	1/25/2018 12:08 AM
140	NP	1/24/2018 5:33 PM
141	Education specialist	1/24/2018 5:07 PM
142	TCRN	1/24/2018 4:56 PM
143	AANC Medical Surgical	1/24/2018 2:45 PM
144	TCRN	1/24/2018 2:11 PM
145	CAPA CPAN	1/24/2018 1:10 PM
146	TNCC	1/24/2018 9:57 AM
147	TCRN	1/24/2018 9:36 AM
148	CPEN	1/23/2018 6:32 PM
149	NE-BC	1/23/2018 5:41 PM
150	ACNP-BC, TCRN	1/23/2018 4:42 PM
151	CPEN TCRN	1/23/2018 4:34 PM
152	APRN	1/23/2018 3:42 PM
153	ACNS, GNP	1/23/2018 3:16 PM
154	CNS	1/23/2018 2:39 PM
155	TCRN	1/23/2018 12:54 PM
156	TCRN	1/23/2018 12:35 PM
157	TCRN, CSTR	1/23/2018 12:08 PM
158	NEA-BC	1/23/2018 11:38 AM
159	TCRN, CPEN	1/23/2018 11:02 AM
160	CPEN, TCRN	1/23/2018 10:49 AM
161	NEA-BC	1/23/2018 10:30 AM
162	EMT-I	1/23/2018 10:08 AM
163	TCRN	1/23/2018 9:50 AM
164	TCRN EMT-P	1/23/2018 9:46 AM
165	TNCC Instructor	1/23/2018 9:39 AM
166	Registered RN and Midwife	1/23/2018 9:22 AM
167	RN-BC	1/23/2018 8:52 AM
168	CPEN, TCRN	1/23/2018 7:58 AM
169	TCRN	1/23/2018 7:51 AM
170	TCRN, RN-BC	1/23/2018 7:47 AM

Appendix F: TPM Validation Survey Summary

171	TCRN	1/23/2018 6:52 AM
172	TCRN, FP-C	1/22/2018 10:18 PM
173	NEA-BC	1/22/2018 9:53 PM
174	TCRN	1/22/2018 9:09 PM
175	tcrn	1/22/2018 8:54 PM
176	ATCN	1/22/2018 8:43 PM
177	TCRN	1/22/2018 7:38 PM
178	EMT-P	1/22/2018 7:34 PM
179	CPEN	1/22/2018 7:18 PM
180	TNCC, TCAR	1/22/2018 7:09 PM
181	CPHQ (certified professional in healthcare quality), RN-BC (ANCC Nsg Informatics)	1/22/2018 6:52 PM
182	TCRN	1/22/2018 6:25 PM
183	CA/CP SANE	1/22/2018 6:18 PM
184	xxx	1/22/2018 6:01 PM
185	Pubic Health Nurse certification	1/22/2018 5:58 PM
186	CPEN	1/22/2018 5:58 PM
187	CHEP	1/22/2018 5:49 PM
188	TCRN	1/22/2018 5:38 PM
189	TCRN	1/22/2018 5:01 PM
190	TCRN	1/22/2018 4:50 PM
191	TCRN, CPEN	1/22/2018 4:48 PM
192	TCRN	1/22/2018 4:44 PM
193	TNCC	1/22/2018 4:36 PM
194	TCRN, CPEN	1/22/2018 4:22 PM
195	TNS (IL-based program), TCRN	1/22/2018 4:21 PM
196	TCRN, NE-BC	1/22/2018 4:14 PM
197	TCRN	1/22/2018 4:09 PM
198	TCRN	1/22/2018 4:08 PM
199	TCRN	1/22/2018 4:00 PM
200	CPHQ	1/22/2018 3:57 PM
201	RN-BC	1/22/2018 3:48 PM
202	TCRN	1/22/2018 3:38 PM
203	TCRN	1/22/2018 3:38 PM
204	TNCC, TNS	1/22/2018 3:33 PM
205	CEN in the past	1/22/2018 3:26 PM
206	TNCC	1/22/2018 3:12 PM
207	TCRN	1/22/2018 3:11 PM
208	TCRN	1/22/2018 3:04 PM
209	Board Certified CNS	1/22/2018 2:55 PM
210	CPEN, TCRN	1/22/2018 2:55 PM
211	TCRN	1/22/2018 2:50 PM

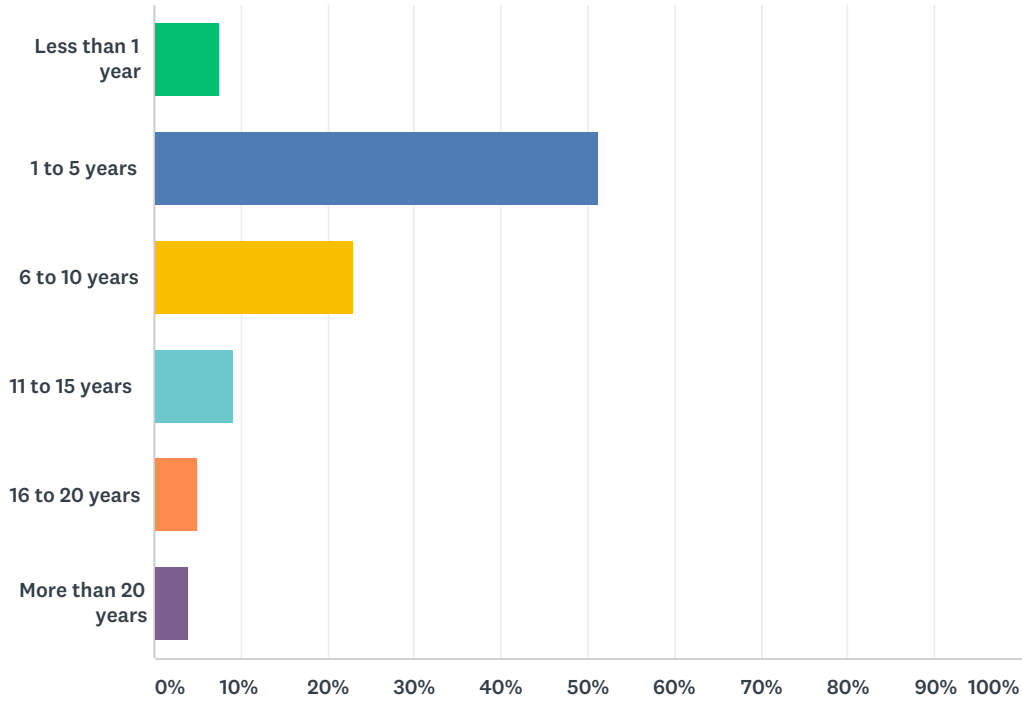
Appendix F: TPM Validation Survey Summary

212	TCRN	1/22/2018 2:45 PM
213	ATCN,CAATN	1/22/2018 2:45 PM
214	TCRN	1/22/2018 2:44 PM
215	Paramedic	1/22/2018 2:43 PM
216	TCRN, NDHP-BC	1/22/2018 2:39 PM
217	TCRN	1/22/2018 2:34 PM
218	TCRN, ACCNA-AG	1/22/2018 2:23 PM
219	TCRN	1/22/2018 2:09 PM
220	TCRN, TNS	1/22/2018 2:06 PM
221	CNML	1/22/2018 2:04 PM
222	RNC	1/22/2018 1:59 PM
223	CTRN (Certified Trauma RN)	1/22/2018 1:55 PM
224	TCRN	1/22/2018 1:55 PM
225	TCRN	1/22/2018 1:53 PM
226	TCRN	1/22/2018 1:52 PM
227	TCRN	1/22/2018 1:48 PM
228	BLS, ACLS, PALS, STABLE, NRP, ABLIS, TNCC, ATCN, ENPC.	1/22/2018 1:48 PM
229	AAAM AIS scoring, TOPIC, ATS registry	1/22/2018 1:47 PM
230	ACNPC, CCNS	1/22/2018 1:41 PM
231	CPEN, TCRN	1/22/2018 1:40 PM
232	CPN (certified pediatric nurse)	1/22/2018 1:39 PM
233	TCRN	1/22/2018 1:39 PM
234	TCRN	1/22/2018 1:37 PM
235	TCRN	1/22/2018 1:37 PM
236	TCRN	1/22/2018 1:34 PM
237	CPEN	1/22/2018 1:34 PM
238	PCCN, TCRN	1/22/2018 1:31 PM
239	TCRN	1/22/2018 1:28 PM
240	TCRN	1/22/2018 1:28 PM
241	TCRN	1/22/2018 1:24 PM
242	TCRN	1/22/2018 1:21 PM
243	TCRN	1/22/2018 1:20 PM
244	TCRN, TNS	1/22/2018 1:20 PM
245	CNL	1/22/2018 1:19 PM
246	TCRN	1/22/2018 1:18 PM
247	CPEN	1/22/2018 1:17 PM
248	TCRN, NP-C	1/22/2018 1:14 PM
249	TCRN	1/22/2018 1:12 PM

Q74 7. How long have you been a member of STN?

Appendix F: TPM Validation Survey Summary

Answered: 515 Skipped: 513

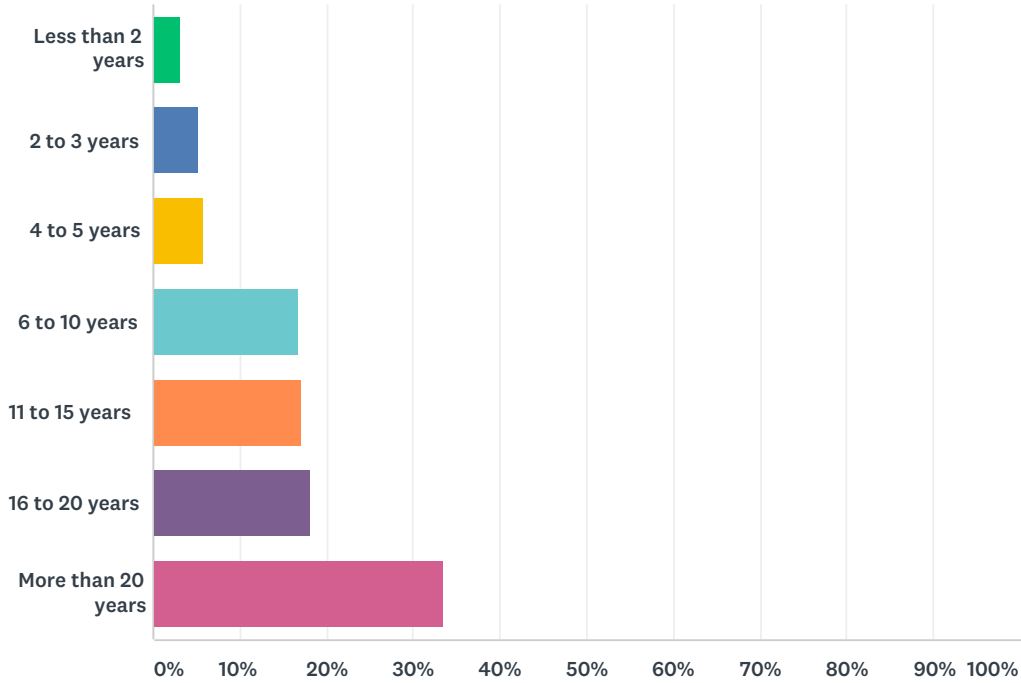


ANSWER CHOICES	RESPONSES	
Less than 1 year	7.57%	39
1 to 5 years	51.26%	264
6 to 10 years	22.91%	118
11 to 15 years	9.13%	47
16 to 20 years	5.05%	26
More than 20 years	4.08%	21
TOTAL		515

Q75 8. How long have you been a trauma nurse?

Answered: 511 Skipped: 517

Appendix F: TPM Validation Survey Summary

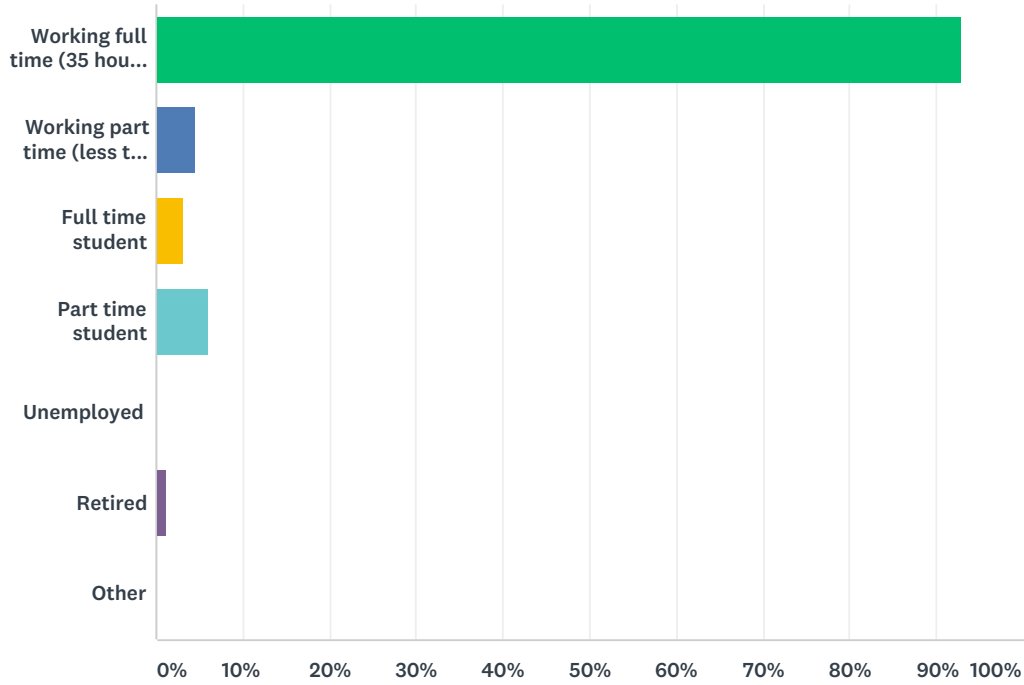


ANSWER CHOICES	RESPONSES
Less than 2 years	3.13% 16
2 to 3 years	5.28% 27
4 to 5 years	5.87% 30
6 to 10 years	16.83% 86
11 to 15 years	17.22% 88
16 to 20 years	18.20% 93
More than 20 years	33.46% 171
TOTAL	511

**Q76 9. How would you describe your current employment or study?
(Please select all that apply.)**

Answered: 516 Skipped: 512

Appendix F: TPM Validation Survey Summary

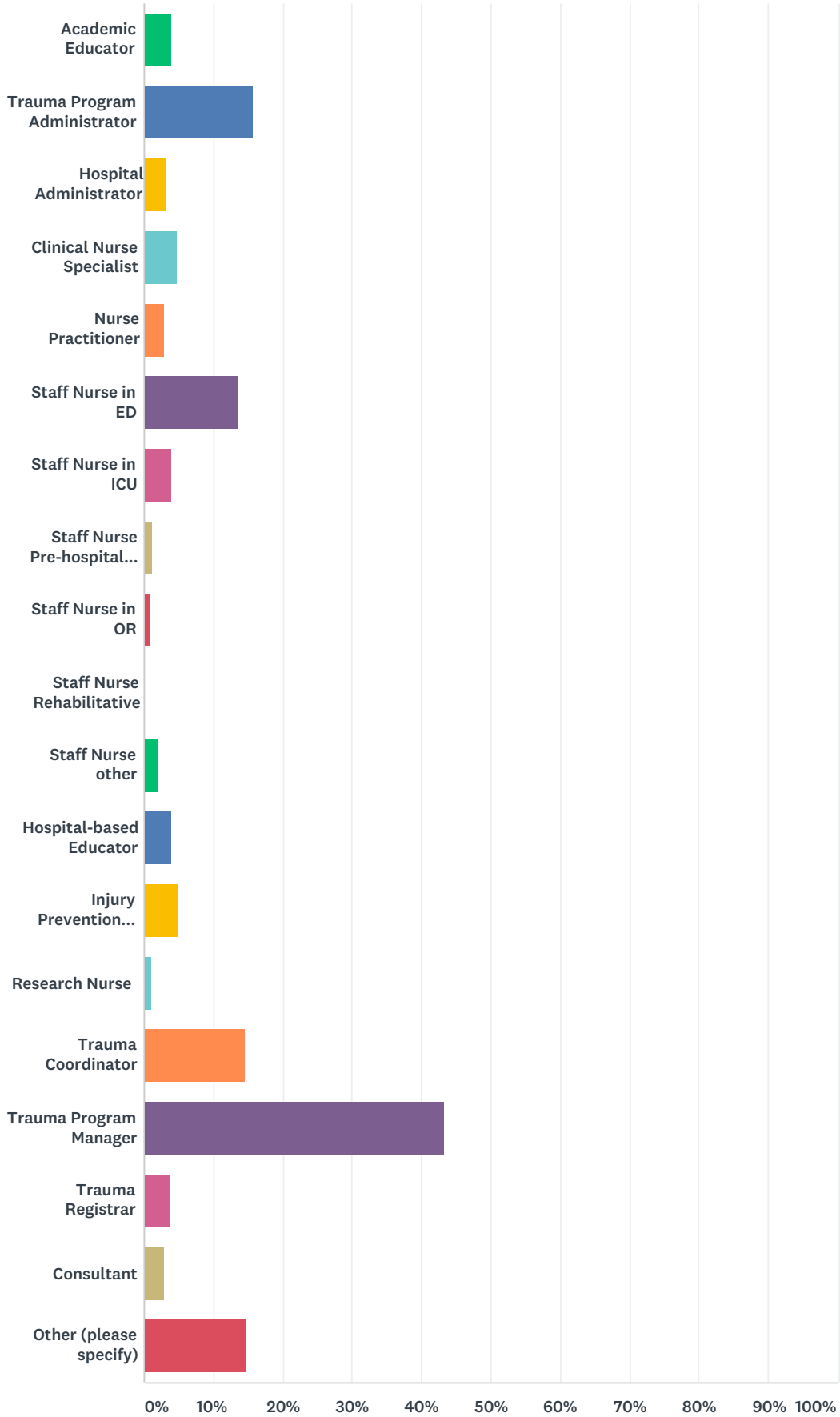


ANSWER CHOICES	RESPONSES	
Working full time (35 hours or more per week)	92.83%	479
Working part time (less than 35 hours per week)	4.65%	24
Full time student	3.10%	16
Part time student	6.01%	31
Unemployed	0.19%	1
Retired	1.16%	6
Other	0.19%	1
Total Respondents: 516		

Q77 10. What is your current role in trauma nursing? (Please select all that apply.)

Answered: 515 Skipped: 513

Appendix F: TPM Validation Survey Summary



ANSWER CHOICES

RESPONSES

Appendix F: TPM Validation Survey Summary

Academic Educator	3.88%	20
Trauma Program Administrator	15.73%	81
Hospital Administrator	3.11%	16
Clinical Nurse Specialist	4.85%	25
Nurse Practitioner	2.91%	15
Staff Nurse in ED	13.59%	70
Staff Nurse in ICU	4.08%	21
Staff Nurse Pre-hospital (ground/Aeromedical)	1.17%	6
Staff Nurse in OR	0.78%	4
Staff Nurse Rehabilitative	0.00%	0
Staff Nurse other	2.14%	11
Hospital-based Educator	3.88%	20
Injury Prevention Coordinator	5.05%	26
Research Nurse	0.97%	5
Trauma Coordinator	14.56%	75
Trauma Program Manager	43.30%	223
Trauma Registrar	3.69%	19
Consultant	2.91%	15
Other (please specify)	14.76%	76
Total Respondents: 515		

#	OTHER (PLEASE SPECIFY)	DATE
1	Flight nurse	2/18/2018 8:43 PM
2	Staff nurse trauma resuscitation	2/15/2018 10:48 AM
3	Paramedic	2/13/2018 11:51 PM
4	Outreach Trauma Educator	2/13/2018 5:23 PM
5	Program director for trauma and burn	2/12/2018 7:51 PM
6	Trauma Program Director	2/12/2018 3:53 PM
7	Trauma PI Coordinator	2/12/2018 3:31 PM
8	No longer in trauma	2/12/2018 1:36 PM
9	operational lead in the Emergency Department	2/12/2018 1:36 PM
10	I also do the registry, PI, outreach and Injury prevention, 1 man show with coders helping with the registry.	2/12/2018 1:32 PM
11	State Program Manager	2/12/2018 1:28 PM
12	Trauma Nurse Team Leader	2/6/2018 1:36 PM
13	Performance improvement and trauma education	2/6/2018 1:26 PM
14	Trauma Nurse	2/6/2018 11:49 AM
15	NP	2/5/2018 5:39 PM

Appendix F: TPM Validation Survey Summary

16	Nurse Manager	2/5/2018 3:53 PM
17	Flight RN	2/5/2018 2:51 PM
18	No longer in trauma - have moved on -	2/5/2018 2:25 PM
19	State Trauma Nurse/Section Chief	2/5/2018 2:12 PM
20	Not	2/5/2018 1:17 PM
21	EMS Educator	2/5/2018 1:16 PM
22	pediatric	2/5/2018 1:13 PM
23	ER Charge Nurse, Part time House Supervisor	2/5/2018 10:13 AM
24	ED Manager	1/31/2018 8:35 PM
25	Trauma Resource RN	1/31/2018 1:15 PM
26	Trauma Nurse Clinician	1/30/2018 8:02 PM
27	QI Manager	1/30/2018 1:04 PM
28	Trauma Performance Improvement	1/30/2018 10:56 AM
29	Just recently (2 months) left the role of Director, Nursing, Trauma and Injury Prevention	1/30/2018 9:33 AM
30	EMT-A	1/30/2018 8:25 AM
31	Trauma Program Director	1/29/2018 9:59 PM
32	ED Manager	1/29/2018 8:18 PM
33	post graduate student	1/29/2018 8:10 PM
34	Executive Director ED/Trauma - other areas as well	1/29/2018 5:34 PM
35	Senior Director, Trauma Services	1/29/2018 3:02 PM
36	Manage the stroke program also.	1/29/2018 3:01 PM
37	Trauma Registry Manager	1/29/2018 2:39 PM
38	Flight nurse	1/29/2018 2:03 PM
39	I am currently retired, but was the TPM for more than 32 years	1/29/2018 1:33 PM
40	Flight Nurse	1/29/2018 1:22 PM
41	SRNA full time currently	1/28/2018 10:37 AM
42	OR manager	1/26/2018 6:11 PM
43	Trauma PACU RN	1/25/2018 3:29 PM
44	ED Nurse Educator, ATLS Course coordinator, Special Pathogen Educator/trainer	1/25/2018 12:29 PM
45	Retired	1/25/2018 9:11 AM
46	Clinical Supervisor	1/25/2018 12:08 AM
47	ED MANAGER	1/24/2018 2:11 PM
48	transfer coordinator	1/24/2018 5:50 AM
49	Trauma PI Coordinator	1/23/2018 4:42 PM
50	State of IL TNS Course Coordinator	1/23/2018 3:58 PM
51	Clinical Nurse Educator for Emergency Services	1/23/2018 3:15 PM
52	Performance Improvement Project Manager	1/23/2018 2:40 PM
53	Director, Emergency Services (ER, Trauma Program and Emergency Preparedness)	1/23/2018 10:30 AM
54	PI Nurse	1/23/2018 9:34 AM
55	Infection control Head Nurse	1/23/2018 9:22 AM
56	Trauma nurse lead	1/23/2018 7:06 AM

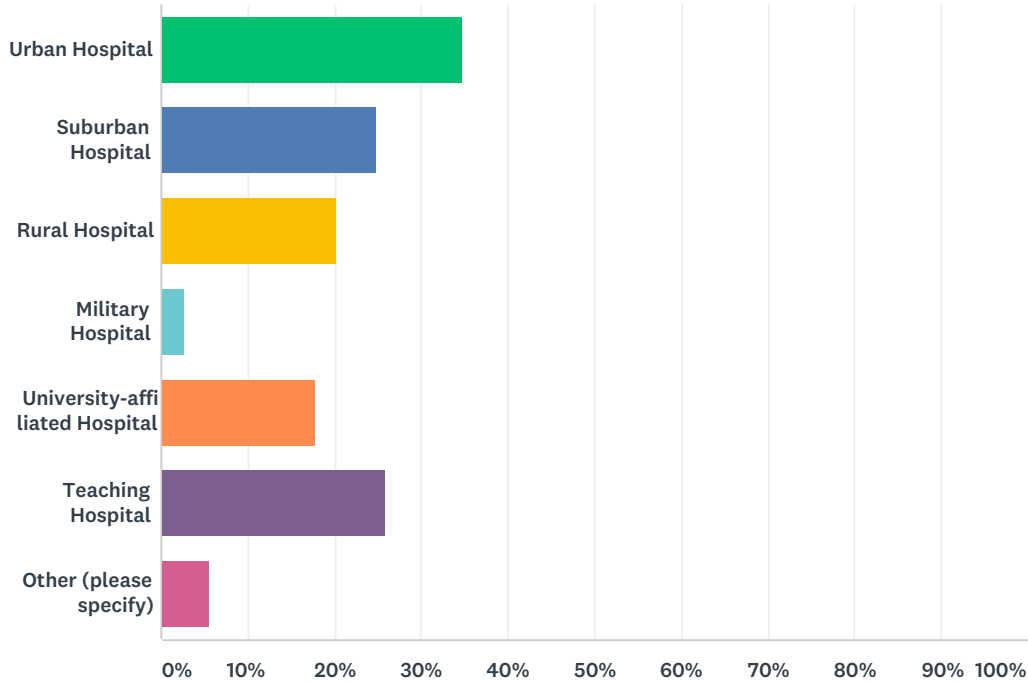
Appendix F: TPM Validation Survey Summary

57	HEMS medic/nurse	1/22/2018 10:18 PM
58	ICU /Trauma Nurse manager	1/22/2018 8:43 PM
59	Trauma Program Director	1/22/2018 7:38 PM
60	State Trauma System Manager	1/22/2018 5:41 PM
61	Flight RN	1/22/2018 5:38 PM
62	PI Coordinator	1/22/2018 4:50 PM
63	Assistant VP Trauma Services	1/22/2018 4:37 PM
64	TNS Course Coordinator	1/22/2018 4:21 PM
65	Trauma PI Coordinator	1/22/2018 3:38 PM
66	Retired Trauma Program Manager	1/22/2018 3:33 PM
67	Retired	1/22/2018 3:26 PM
68	Director with no TPM	1/22/2018 3:06 PM
69	Executive Director of state Accrediting body for trauma centers	1/22/2018 2:36 PM
70	retired	1/22/2018 2:31 PM
71	Stroke/STEMI Coordinator. Emergency Management Coordinator.	1/22/2018 1:48 PM
72	Educator	1/22/2018 1:26 PM
73	Trauma Performance Improvement Coordinator	1/22/2018 1:20 PM
74	Director of Accreditation - State	1/22/2018 1:18 PM
75	Director of Trauma and Transport	1/22/2018 1:17 PM
76	TRAUMA PI	1/22/2018 1:15 PM

Q78 11. Which of the following best describes your work setting? (Please select all that apply.)

Answered: 510 Skipped: 518

Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Urban Hospital	34.71% 177
Suburban Hospital	24.90% 127
Rural Hospital	20.20% 103
Military Hospital	2.75% 14
University-affiliated Hospital	17.84% 91
Teaching Hospital	25.88% 132
Other (please specify)	5.69% 29
Total Respondents: 510	

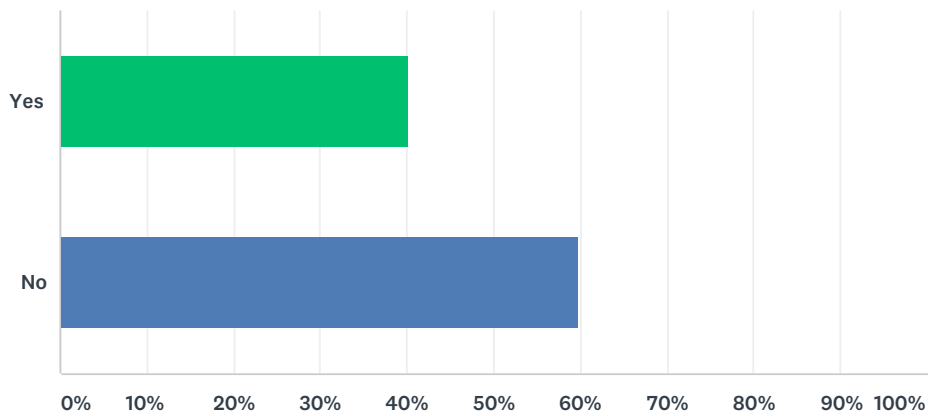
#	OTHER (PLEASE SPECIFY)	DATE
1	Office	2/12/2018 1:36 PM
2	inclusive	2/12/2018 1:28 PM
3	Retired - worked in a urban/suburban university teaching hospital	2/5/2018 11:01 PM
4	All	2/5/2018 2:51 PM
5	Local Government Agency	2/5/2018 2:41 PM
6	Health Department	2/5/2018 2:12 PM
7	Corporate Setting	2/5/2018 1:59 PM
8	Community Hospital	2/5/2018 1:49 PM
9	Not	2/5/2018 1:17 PM
10	currently working in human resources for the military	1/29/2018 11:29 PM
11	presently graduate student/adjunct	1/29/2018 8:10 PM
12	Health system	1/29/2018 3:16 PM
13	Retired, consultant	1/29/2018 1:33 PM

Appendix F: TPM Validation Survey Summary

14	Pediatric stand-alone Children's Hospital	1/29/2018 1:25 PM
15	Helicopter EMS Base	1/29/2018 1:22 PM
16	public hospital	1/27/2018 2:28 PM
17	inner city	1/25/2018 12:29 PM
18	Public Health	1/24/2018 2:45 PM
19	Air Medical	1/22/2018 6:37 PM
20	State government	1/22/2018 5:41 PM
21	community	1/22/2018 5:38 PM
22	Cover 10 hospitals- urban and rural	1/22/2018 4:37 PM
23	Aeromedical in combined wilderness and rural setting.	1/22/2018 4:08 PM
24	Was Director of Level 1 Trauma Center	1/22/2018 3:26 PM
25	Publi county teaching university affiliated	1/22/2018 3:12 PM
26	Nonprofit	1/22/2018 2:36 PM
27	State Government	1/22/2018 1:45 PM
28	County hospital	1/22/2018 1:24 PM
29	Government	1/22/2018 1:18 PM

Q79 12. Is your hospital a “critical access” hospital?

Answered: 502 Skipped: 526

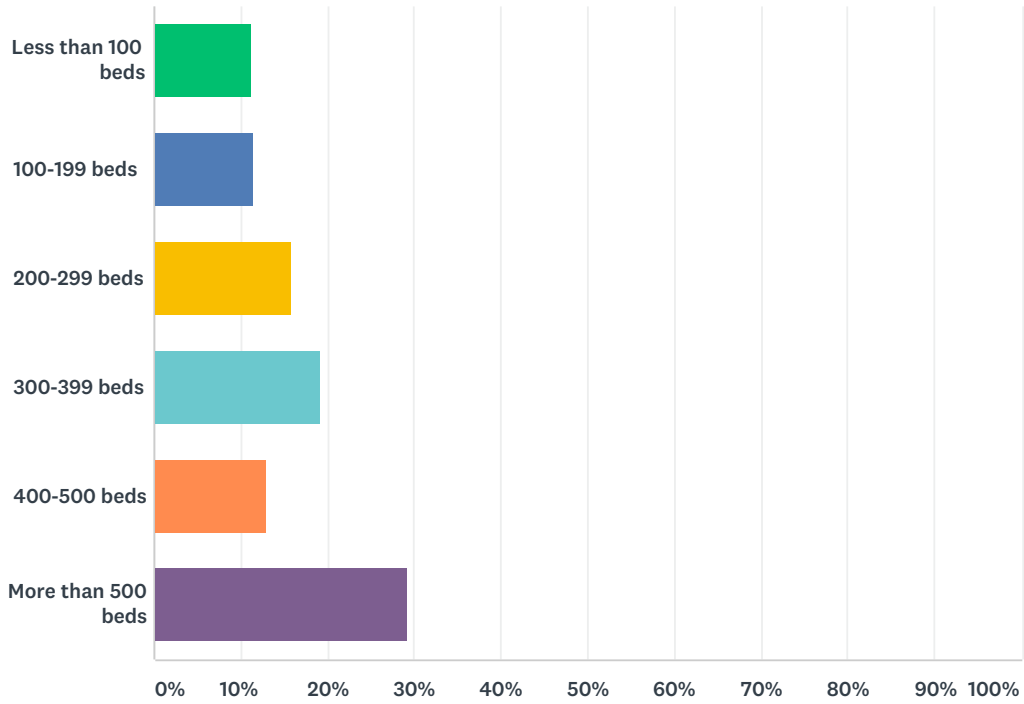


ANSWER CHOICES	RESPONSES	
Yes	40.24%	202
No	59.76%	300
TOTAL		502

Q80 13. Which of the following best describes the size of your facility?

Answered: 506 Skipped: 522

Appendix F: TPM Validation Survey Summary

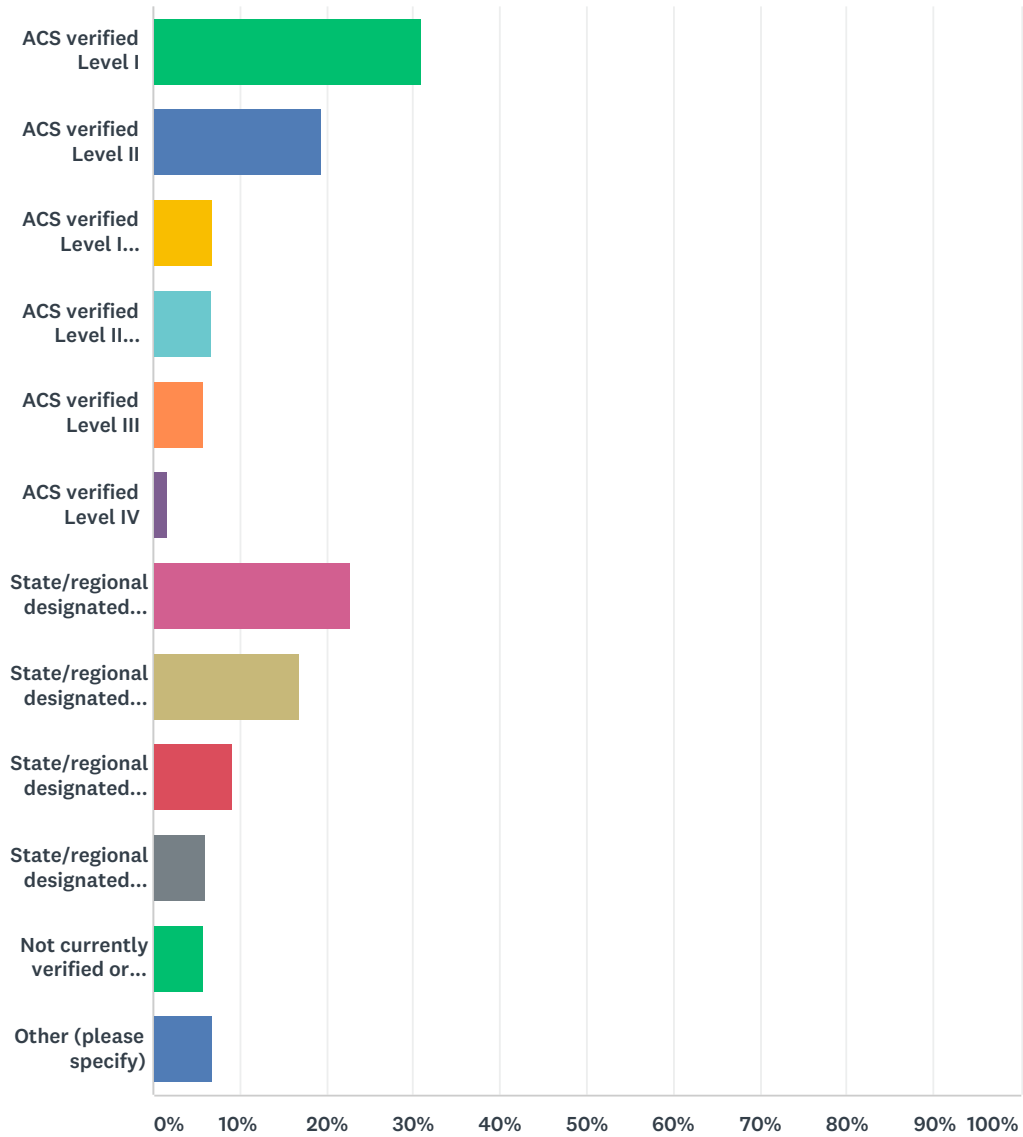


ANSWER CHOICES	RESPONSES	
Less than 100 beds	11.26%	57
100-199 beds	11.46%	58
200-299 beds	15.81%	80
300-399 beds	19.17%	97
400-500 beds	13.04%	66
More than 500 beds	29.25%	148
TOTAL		506

Q81 14. Which of the following best describes your trauma center?
(Please select all that apply.)

Answered: 514 Skipped: 514

Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES	
ACS verified Level I	30.93%	159
ACS verified Level II	19.46%	100
ACS verified Level I pediatric	6.81%	35
ACS verified Level II pediatric	6.61%	34
ACS verified Level III	5.84%	30
ACS verified Level IV	1.75%	9
State/regional designated Level I	22.76%	117
State/regional designated Level II	16.93%	87
State/regional designated Level III	9.14%	47
State/regional designated Level IV	6.03%	31
Not currently verified or designated as a trauma center	5.84%	30
Other (please specify)	6.81%	35

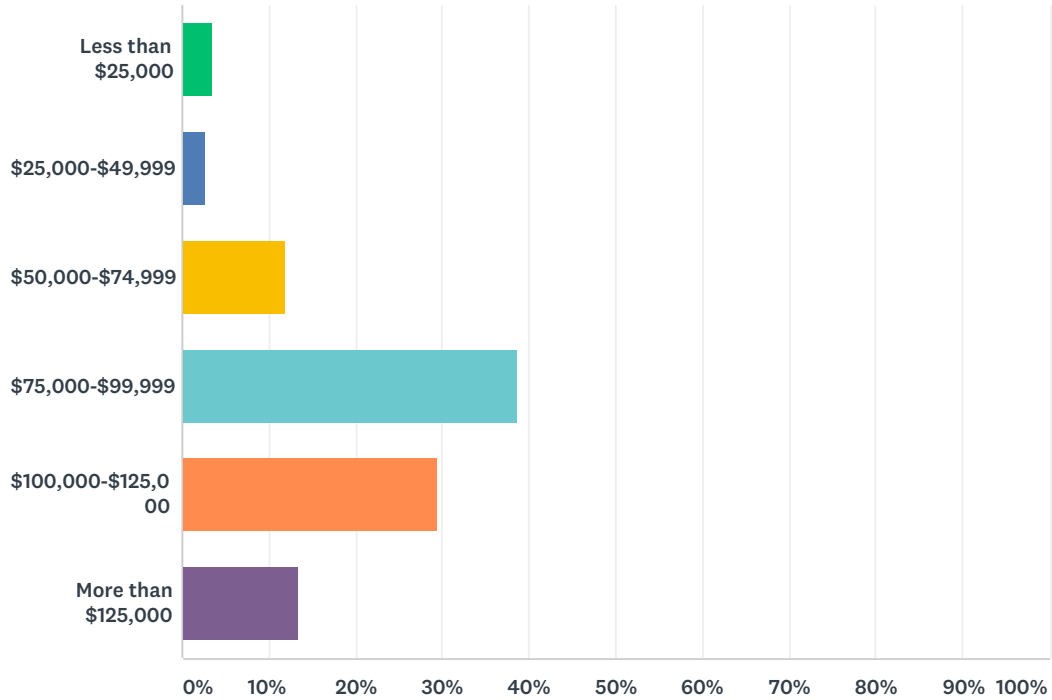
Appendix F: TPM Validation Survey Summary

Total Respondents: 514		
#	OTHER (PLEASE SPECIFY)	DATE
1	PARC	2/15/2018 10:48 AM
2	we are wisconsin level 3, illinois level 2	2/13/2018 11:51 PM
3	n/a	2/12/2018 1:28 PM
4	Provisional Status Level III	2/12/2018 1:17 PM
5	Provisional Level I adult and Level II pediatric pursuing ACS verification	2/8/2018 9:37 AM
6	Formerly was in urban Level I centers as supervision - with initial beds of > 500 downsized to 350 then transferred to another level I which had 300 beds now in a community hospital.	2/5/2018 2:25 PM
7	Department of Health	2/5/2018 2:12 PM
8	Ww have all of the above within our corporation	2/5/2018 1:59 PM
9	State designated provisional Level II, underwent ACS consultative visit 2017, expecting full accreditation spring of 2019	1/31/2018 3:41 PM
10	Awaiting level 3 survey this summer.	1/31/2018 9:32 AM
11	State accredited Level I Pediatric trauma center	1/30/2018 9:33 AM
12	N/A	1/29/2018 8:10 PM
13	Awaiting level III site visit	1/29/2018 3:01 PM
14	Canadian Site TAC Accreditation	1/29/2018 1:12 PM
15	state accredited level1 pediatric	1/28/2018 12:47 PM
16	ACS Verified Burn Center, CARFF verified acute TBI and SCI rehabilitation center	1/27/2018 2:28 PM
17	PARC	1/25/2018 3:29 PM
18	State designated pediatric level II	1/25/2018 10:48 AM
19	Public Hospital in Argentina	1/24/2018 5:07 PM
20	State Government	1/24/2018 2:45 PM
21	Accredited Level II	1/23/2018 5:41 PM
22	Have had site visit for State designated Level IV. Waiting for designation status.	1/23/2018 10:30 AM
23	In process of state designation, newly developed	1/23/2018 9:46 AM
24	International.(korea verified level 1)	1/22/2018 8:54 PM
25	CAMS Flight RN	1/22/2018 5:38 PM
26	Aeromedical organization only	1/22/2018 4:08 PM
27	n/a	1/22/2018 2:36 PM
28	In process to receive ACS Level II	1/22/2018 1:52 PM
29	adult level 1, pediatric level 2	1/22/2018 1:51 PM
30	State designated Level I pediatric trauma center	1/22/2018 1:46 PM
31	State Government	1/22/2018 1:45 PM
32	Provisional Level II Trauma Center awaiting ACS verification	1/22/2018 1:42 PM
33	Working toward pediatric verification	1/22/2018 1:39 PM
34	State Agency	1/22/2018 1:18 PM
35	Not in trauma any longer	1/22/2018 1:15 PM

Q82 15. What is your annual income from employment as a TPM?

Appendix F: TPM Validation Survey Summary

Answered: 470 Skipped: 558

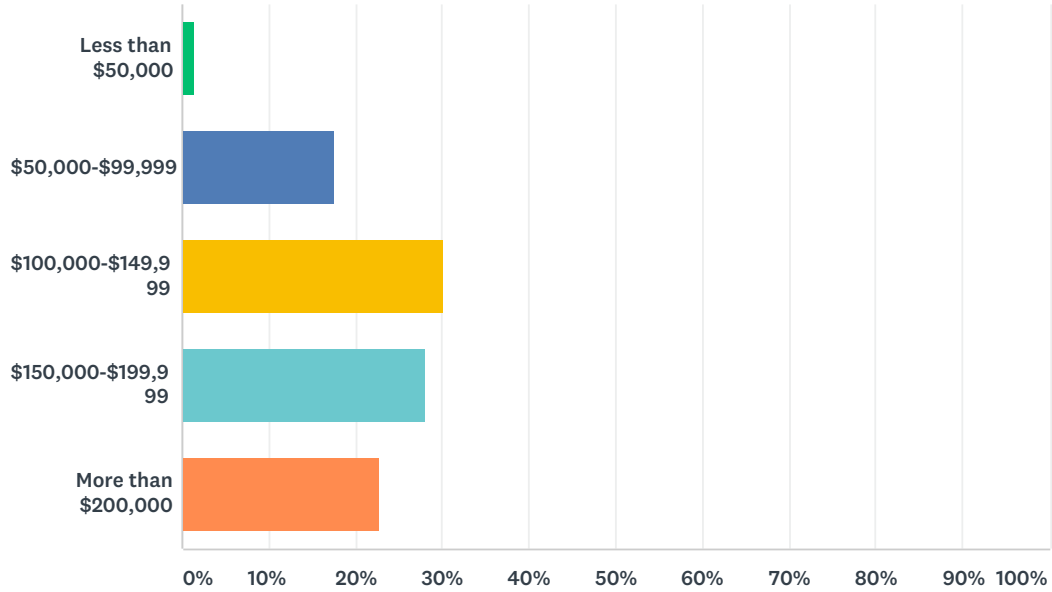


ANSWER CHOICES	RESPONSES	
Less than \$25,000	3.62%	17
\$25,000-\$49,999	2.77%	13
\$50,000-\$74,999	11.91%	56
\$75,000-\$99,999	38.72%	182
\$100,000-\$125,000	29.57%	139
More than \$125,000	13.40%	63
TOTAL		470

Q83 16. What is your annual household income?

Answered: 468 Skipped: 560

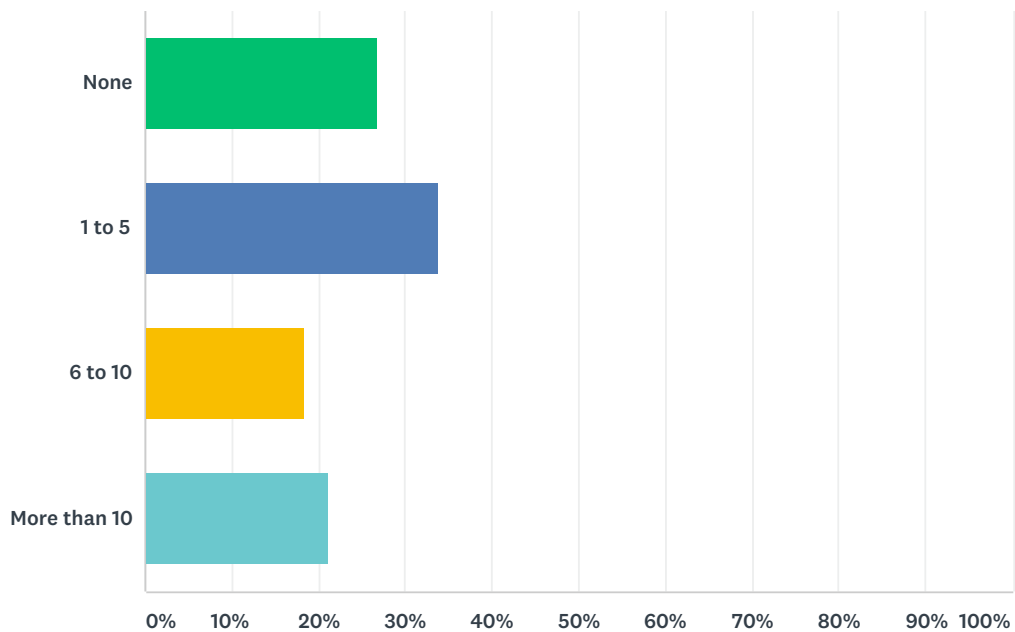
Appendix F: TPM Validation Survey Summary



ANSWER CHOICES	RESPONSES
Less than \$50,000	1.50% 7
\$50,000-\$99,999	17.52% 82
\$100,000-\$149,999	30.13% 141
\$150,000-\$199,999	27.99% 131
More than \$200,000	22.86% 107
TOTAL	468

Q84 17. How many trauma team members do you supervise?

Answered: 508 Skipped: 520



Appendix F: TPM Validation Survey Summary

ANSWER CHOICES	RESPONSES	
None	26.77%	136
1 to 5	33.86%	172
6 to 10	18.31%	93
More than 10	21.06%	107
TOTAL		508

The CORR Procedure

66 Variables:	I0101	I0102	I0103	I0104	I0105	I0106	I0107	I0201	I0202	I0203	I0204	I0205	I0206	I0207	I0208
	I0209	I0301	I0302	I0303	I0304	I0305	I0306	I0401	I0402	I0403	I0404	I0501	I0502	I0503	I0504
	I0601	I0602	I0603	F0101	F0102	F0103	F0104	F0105	F0106	F0107	F0201	F0202	F0203	F0204	F0205
	F0206	F0207	F0208	F0209	F0301	F0302	F0303	F0304	F0305	F0306	F0401	F0402	F0403	F0404	F0501
	F0502	F0503	F0504	F0601	F0602	F0603									

Cronbach Coefficient Alpha	
Variables	Alpha
Raw	0.973170
Standardized	0.973400

Cronbach Coefficient Alpha with Deleted Variable					
Deleted Variable	Raw Variables		Standardized Variables		Label
	Correlation with Total	Alpha	Correlation with Total	Alpha	
I0101	0.387963	0.973125	0.412298	0.973378	I0101
I0102	0.418889	0.973088	0.444337	0.973310	I0102
I0103	0.587875	0.972778	0.605080	0.972968	I0103
I0104	0.388470	0.973128	0.432152	0.973336	I0104
I0105	0.544349	0.972859	0.559019	0.973066	I0105
I0106	0.572630	0.972814	0.581109	0.973019	I0106
I0107	0.628144	0.972683	0.636180	0.972902	I0107
I0201	0.474930	0.972989	0.494174	0.973204	I0201
I0202	0.424771	0.973072	0.445011	0.973309	I0202
I0203	0.606110	0.972732	0.603957	0.972971	I0203
I0204	0.604717	0.972739	0.614272	0.972949	I0204
I0205	0.567812	0.972813	0.575866	0.973031	I0205
I0206	0.590672	0.972761	0.592443	0.972995	I0206
I0207	0.557553	0.972838	0.552968	0.973079	I0207
I0208	0.610199	0.972726	0.613264	0.972951	I0208
I0209	0.634276	0.972672	0.640478	0.972893	I0209
I0301	0.594840	0.972755	0.601788	0.972975	I0301
I0302	0.653620	0.972629	0.656539	0.972858	I0302
I0303	0.613028	0.972714	0.621000	0.972934	I0303
I0304	0.635828	0.972674	0.638865	0.972896	I0304
I0305	0.636677	0.972667	0.640257	0.972893	I0305
I0306	0.572924	0.972804	0.581823	0.973018	I0306
I0401	0.637359	0.972656	0.636491	0.972901	I0401
I0402	0.540410	0.972869	0.548003	0.973090	I0402
I0403	0.606581	0.972731	0.604621	0.972969	I0403
I0404	0.558842	0.972839	0.570496	0.973042	I0404
I0501	0.641851	0.972645	0.639806	0.972894	I0501
I0502	0.602580	0.972735	0.600764	0.972977	I0502
I0503	0.624641	0.972685	0.623095	0.972930	I0503

The CORR Procedure

Cronbach Coefficient Alpha with Deleted Variable					
Deleted Variable	Raw Variables		Standardized Variables		Label
	Correlation with Total	Alpha	Correlation with Total	Alpha	
I0504	0.611978	0.972721	0.609107	0.972960	I0504
I0601	0.463282	0.973012	0.481281	0.973232	I0601
I0602	0.600619	0.972742	0.608176	0.972962	I0602
I0603	0.576778	0.972791	0.582876	0.973016	I0603
F0101	0.414057	0.973112	0.433369	0.973333	F0101
F0102	0.443373	0.973069	0.451648	0.973295	F0102
F0103	0.578432	0.972792	0.580702	0.973020	F0103
F0104	0.404060	0.973127	0.434496	0.973331	F0104
F0105	0.547760	0.972852	0.557062	0.973071	F0105
F0106	0.608723	0.972731	0.614832	0.972947	F0106
F0107	0.709646	0.972508	0.705109	0.972754	F0107
F0201	0.563505	0.972820	0.572062	0.973039	F0201
F0202	0.475217	0.973004	0.491813	0.973209	F0202
F0203	0.665038	0.972599	0.657485	0.972856	F0203
F0204	0.651218	0.972629	0.649484	0.972873	F0204
F0205	0.637234	0.972661	0.634036	0.972906	F0205
F0206	0.644671	0.972642	0.631823	0.972911	F0206
F0207	0.662028	0.972602	0.646003	0.972881	F0207
F0208	0.632772	0.972671	0.628046	0.972919	F0208
F0209	0.662141	0.972604	0.660710	0.972849	F0209
F0301	0.624252	0.972686	0.620739	0.972935	F0301
F0302	0.608527	0.972722	0.604789	0.972969	F0302
F0303	0.637417	0.972662	0.631636	0.972911	F0303
F0304	0.672353	0.972580	0.662147	0.972846	F0304
F0305	0.636324	0.972659	0.633961	0.972906	F0305
F0306	0.625927	0.972682	0.626242	0.972923	F0306
F0401	0.660352	0.972603	0.647632	0.972877	F0401
F0402	0.571778	0.972826	0.564761	0.973054	F0402
F0403	0.671476	0.972575	0.656048	0.972859	F0403
F0404	0.571152	0.972804	0.571652	0.973040	F0404
F0501	0.694947	0.972519	0.681380	0.972805	F0501
F0502	0.661557	0.972599	0.649154	0.972874	F0502
F0503	0.672321	0.972572	0.658535	0.972854	F0503
F0504	0.634009	0.972683	0.622046	0.972932	F0504
F0601	0.487855	0.972985	0.495240	0.973202	F0601
F0602	0.600035	0.972748	0.599496	0.972980	F0602
F0603	0.572339	0.972815	0.567937	0.973047	F0603

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	I0101	I0102	I0103	I0104	I0105	I0106	I0107	I0201	I0202	I0203	I0204	I0205
I0101	1.00000	0.42752	0.38871	0.54760	0.43014	0.34030	0.26547	0.38414	0.41337	0.24307	0.22485	0.23220
I0101	621	617	613	612	585	588	588	571	569	569	548	549
I0102	0.42752	1.00000	0.37922	0.40178	0.36661	0.40545	0.29968	0.32226	0.34930	0.30857	0.29109	0.26329
I0102	617	622	617	615	588	591	591	574	572	572	550	553
I0103	0.38871	0.37922	1.00000	0.38533	0.39585	0.47651	0.49666	0.43898	0.33130	0.51733	0.46326	0.50878
I0103	613	617	618	615	588	591	591	574	572	572	550	553
I0104	0.54760	0.40178	0.38533	1.00000	0.47428	0.41139	0.24546	0.45519	0.53803	0.22894	0.29023	0.29699
I0104	612	615	615	617	589	591	591	575	573	573	551	553
I0105	0.43014	0.36661	0.39585	0.47428	1.00000	0.42990	0.41602	0.39975	0.46134	0.29414	0.39857	0.38783
I0105	585	588	588	589	592	592	592	576	574	574	552	554
I0106	0.34030	0.40545	0.47651	0.41139	0.42990	1.00000	0.41770	0.44978	0.31809	0.40280	0.49512	0.42003
I0106	588	591	591	591	592	595	595	578	576	576	554	556
I0107	0.26547	0.29968	0.49666	0.24546	0.41602	0.41770	1.00000	0.30565	0.27370	0.56456	0.53338	0.53336
I0107	588	591	591	591	592	595	595	578	576	576	554	556
I0201	0.38414	0.32226	0.43898	0.45519	0.39975	0.44978	0.30565	1.00000	0.41089	0.37897	0.38284	0.34428
I0201	571	574	574	575	576	578	578	578	575	575	553	555
I0202	0.41337	0.34930	0.33130	0.53803	0.46134	0.31809	0.27370	0.41089	1.00000	0.21438	0.30764	0.28390
I0202	569	572	572	573	574	576	576	575	576	573	551	553
I0203	0.24307	0.30857	0.51733	0.22894	0.29414	0.40280	0.56456	0.37897	0.21438	1.00000	0.52816	0.54118
I0203	569	572	572	573	574	576	576	575	573	576	552	554
I0204	0.22485	0.29109	0.46326	0.29023	0.39857	0.49512	0.53338	0.38284	0.30764	0.52816	1.00000	0.50793
I0204	548	550	550	551	552	554	554	553	551	552	554	553
I0205	0.23220	0.26329	0.50878	0.29699	0.38783	0.42003	0.53336	0.34428	0.28390	0.54118	0.50793	1.00000
I0205	549	553	553	553	554	556	556	555	553	554	553	556
I0206	0.18506	0.27313	0.44181	0.14537	0.37639	0.34766	0.53705	0.30822	0.19081	0.57704	0.44313	0.53444
I0206	550	553	553	554	554	556	556	555	553	554	553	555
I0207	0.16519	0.21737	0.36584	0.12639	0.24983	0.34010	0.55004	0.23321	0.10841	0.50761	0.45100	0.46640
I0207	541	544	544	545	546	548	548	547	546	546	545	547
I0208	0.24449	0.24813	0.49258	0.25516	0.35190	0.33267	0.50094	0.31590	0.22433	0.56376	0.46666	0.50184
I0208	542	546	546	546	547	549	549	548	546	547	546	549
I0209	0.27240	0.36368	0.43613	0.27477	0.34331	0.42476	0.50858	0.38099	0.34237	0.50799	0.45651	0.48140
I0209	540	543	543	544	545	547	547	546	544	546	544	546
I0301	0.26374	0.32260	0.35750	0.26425	0.34970	0.41332	0.42952	0.35881	0.30843	0.45327	0.48371	0.37528
I0301	532	535	535	536	537	539	539	538	536	537	536	538
I0302	0.29148	0.29355	0.42334	0.26983	0.40077	0.43116	0.46021	0.36241	0.26835	0.46738	0.49617	0.43895
I0302	530	533	533	534	535	537	537	536	534	535	534	536
I0303	0.35153	0.29320	0.45114	0.31916	0.38106	0.38874	0.44337	0.36884	0.24205	0.41233	0.48460	0.44499
I0303	532	535	535	536	537	539	539	538	536	537	536	538
I0304	0.22813	0.31182	0.50106	0.19450	0.36938	0.37064	0.52168	0.33630	0.27708	0.54857	0.49266	0.46645
I0304	522	525	525	526	528	529	529	528	526	527	526	528
I0305	0.27842	0.32270	0.42263	0.25203	0.35202	0.42774	0.49368	0.32779	0.23243	0.53542	0.52468	0.47986
I0305	519	522	522	523	524	526	526	525	523	525	523	525
I0306	0.29947	0.33648	0.45408	0.28243	0.37949	0.41494	0.42740	0.36126	0.28579	0.42002	0.44496	0.41075
I0306	523	526	526	527	528	530	530	529	527	528	527	529

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	I0101	I0102	I0103	I0104	I0105	I0106	I0107	I0201	I0202	I0203	I0204	I0205
I0401	0.18388	0.22567	0.44966	0.18235	0.41708	0.37188	0.49743	0.32737	0.25473	0.47487	0.46368	0.46583
I0401	515	517	517	518	519	520	520	519	518	518	517	519
I0402	0.31833	0.30722	0.37613	0.27842	0.41015	0.40701	0.36996	0.37869	0.34572	0.34827	0.33162	0.33834
I0402	514	517	517	517	518	519	519	518	516	517	516	519
I0403	0.20075	0.22178	0.39958	0.19085	0.37233	0.31427	0.53463	0.27499	0.19578	0.46814	0.38289	0.42940
I0403	513	515	515	516	517	518	518	517	515	516	515	517
I0404	0.28471	0.35072	0.41591	0.31146	0.36860	0.43895	0.39632	0.46834	0.30941	0.36501	0.44554	0.43635
I0404	515	517	517	518	519	520	520	519	517	518	517	519
I0501	0.22386	0.33730	0.43324	0.26314	0.34470	0.37939	0.51132	0.28939	0.27867	0.39577	0.39282	0.38471
I0501	511	513	514	514	515	516	516	515	513	514	513	515
I0502	0.25203	0.32179	0.39685	0.25963	0.31548	0.35547	0.46679	0.25107	0.28263	0.35392	0.33422	0.36360
I0502	510	512	513	513	514	515	515	514	512	513	512	514
I0503	0.21541	0.29511	0.41330	0.23969	0.36034	0.37609	0.48286	0.24846	0.27188	0.38919	0.42472	0.37052
I0503	508	511	512	511	512	513	513	512	511	511	510	513
I0504	0.23472	0.18658	0.39573	0.21721	0.34341	0.34048	0.48812	0.23942	0.21091	0.47232	0.39115	0.41380
I0504	513	515	515	516	517	518	518	517	515	516	515	517
I0601	0.35455	0.39859	0.24530	0.39442	0.42663	0.35496	0.27069	0.39252	0.55486	0.22997	0.33986	0.26658
I0601	511	513	513	514	515	516	516	515	513	514	514	515
I0602	0.32513	0.31900	0.37670	0.30696	0.45837	0.36454	0.44277	0.31806	0.36410	0.41733	0.43396	0.39009
I0602	510	512	512	513	514	515	515	514	512	513	512	514
I0603	0.29975	0.35010	0.40450	0.26834	0.39693	0.36275	0.44224	0.32371	0.26860	0.42877	0.37855	0.42293
I0603	512	514	514	515	516	517	517	516	514	515	514	516
F0101	0.53254	0.28844	0.26059	0.38848	0.37394	0.23008	0.19834	0.32753	0.32292	0.15738	0.18424	0.13226
F0101	618	614	610	609	583	586	586	569	567	567	546	547
F0102	0.19203	0.51227	0.21987	0.21916	0.22443	0.27088	0.21623	0.21213	0.20134	0.17036	0.24450	0.15397
F0102	615	619	616	614	589	592	592	575	573	573	551	554
F0103	0.19699	0.22822	0.58791	0.23062	0.25998	0.30169	0.37080	0.29996	0.23912	0.33006	0.34255	0.32763
F0103	612	616	616	613	588	591	591	574	572	572	550	553
F0104	0.37605	0.24368	0.21044	0.63818	0.36476	0.27183	0.14672	0.29692	0.38226	0.08070	0.15117	0.17031
F0104	614	617	616	616	590	593	593	576	574	574	552	554
F0105	0.25273	0.23170	0.27052	0.31767	0.61856	0.31990	0.29145	0.27545	0.32332	0.19988	0.30199	0.26061
F0105	586	589	589	589	591	593	593	576	574	574	552	554
F0106	0.24942	0.27711	0.32878	0.28231	0.31799	0.64017	0.33255	0.35219	0.23212	0.29437	0.38515	0.29866
F0106	588	591	591	591	592	595	595	578	576	576	554	556
F0107	0.17426	0.20040	0.38680	0.19144	0.31988	0.33036	0.61740	0.28430	0.25174	0.39220	0.43002	0.34219
F0107	587	590	590	590	591	594	594	577	575	575	553	555
F0201	0.22843	0.24956	0.29155	0.30244	0.29697	0.30051	0.21574	0.55897	0.26444	0.23837	0.29470	0.22323
F0201	571	574	574	575	576	578	578	578	575	575	553	555
F0202	0.29035	0.25071	0.22256	0.46846	0.40033	0.27847	0.16613	0.34633	0.66537	0.07425	0.24200	0.17244
F0202	570	573	573	574	575	577	577	576	575	574	552	554
F0203	0.18248	0.21515	0.33209	0.18654	0.26422	0.32003	0.38384	0.26387	0.19096	0.59716	0.37424	0.32505
F0203	570	573	573	574	575	577	577	576	574	575	553	555
F0204	0.17216	0.20740	0.34127	0.25002	0.30826	0.38470	0.37614	0.27035	0.26529	0.34367	0.67388	0.32724
F0204	546	548	548	549	551	552	552	551	549	550	552	551

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	I0101	I0102	I0103	I0104	I0105	I0106	I0107	I0201	I0202	I0203	I0204	I0205
F0205	0.18204	0.20235	0.34190	0.26325	0.30592	0.33430	0.36275	0.22064	0.23954	0.35503	0.39294	0.59363
F0205	548	552	552	552	553	555	555	554	552	553	552	555
F0206	0.10485	0.17684	0.32031	0.13496	0.26995	0.29563	0.37558	0.18602	0.12925	0.39221	0.31773	0.35802
F0206	550	553	553	554	555	557	557	556	554	555	554	556
F0207	0.15665	0.15908	0.33003	0.12553	0.21118	0.31178	0.40709	0.17529	0.11275	0.41157	0.33266	0.35300
F0207	542	545	545	546	547	549	549	548	546	547	546	548
F0208	0.16726	0.19930	0.38014	0.19358	0.28722	0.27913	0.36856	0.23788	0.17361	0.41682	0.35242	0.37287
F0208	542	546	546	546	547	549	549	548	546	547	546	549
F0209	0.22111	0.26947	0.33642	0.22349	0.22943	0.32253	0.38180	0.31245	0.29869	0.38499	0.32229	0.29558
F0209	540	543	543	544	545	547	547	546	544	545	544	546
F0301	0.22355	0.25650	0.23771	0.22412	0.28212	0.27649	0.26137	0.25759	0.23504	0.30154	0.33623	0.24597
F0301	534	537	537	538	539	541	541	540	538	539	538	540
F0302	0.23190	0.21534	0.30367	0.16900	0.30715	0.29808	0.31187	0.23746	0.18398	0.32063	0.34584	0.27465
F0302	531	534	534	535	536	538	538	537	535	536	535	537
F0303	0.25455	0.15295	0.38742	0.18043	0.24947	0.30002	0.33864	0.26837	0.14375	0.34844	0.35351	0.31048
F0303	532	535	535	536	537	539	539	538	536	537	536	538
F0304	0.15379	0.15729	0.38019	0.14196	0.26057	0.31500	0.41138	0.24139	0.15021	0.42614	0.39684	0.32349
F0304	522	525	525	526	528	529	529	528	526	527	526	528
F0305	0.18692	0.23970	0.30436	0.23329	0.26852	0.35656	0.34338	0.24259	0.20361	0.37819	0.39845	0.35200
F0305	521	524	524	525	526	528	528	527	525	526	525	527
F0306	0.24294	0.27168	0.36057	0.24731	0.29348	0.37456	0.33185	0.28160	0.25083	0.32703	0.34519	0.29304
F0306	521	524	524	525	526	528	528	527	525	526	525	527
F0401	0.11263	0.13952	0.35746	0.09405	0.30491	0.27996	0.38805	0.22496	0.16286	0.35321	0.35922	0.35353
F0401	517	519	519	520	521	522	522	521	519	520	519	521
F0402	0.22040	0.20811	0.28045	0.14246	0.27141	0.29712	0.27200	0.20079	0.17485	0.27477	0.22478	0.22420
F0402	512	515	515	515	516	517	517	516	514	515	514	517
F0403	0.14409	0.16694	0.33038	0.09359	0.28689	0.28944	0.41863	0.19063	0.13573	0.37631	0.32914	0.32231
F0403	515	517	517	518	518	519	519	518	516	517	516	518
F0404	0.18787	0.23788	0.25890	0.20294	0.20498	0.32772	0.23606	0.25074	0.25567	0.24911	0.30811	0.23236
F0404	516	518	518	519	520	521	521	520	518	519	518	520
F0501	0.14113	0.22370	0.33781	0.17266	0.27601	0.31104	0.42409	0.21291	0.17634	0.33997	0.31167	0.31506
F0501	509	511	512	512	513	514	514	513	511	512	511	513
F0502	0.14233	0.23910	0.32975	0.17083	0.25736	0.30289	0.37428	0.18248	0.18148	0.33112	0.28716	0.31050
F0502	509	511	512	512	513	514	514	513	511	512	511	513
F0503	0.16925	0.20298	0.30668	0.15206	0.26710	0.29484	0.41146	0.17042	0.21130	0.30783	0.30577	0.28250
F0503	510	513	514	513	514	515	515	514	512	513	512	515
F0504	0.15727	0.13890	0.32392	0.15766	0.24498	0.30982	0.37743	0.15747	0.18974	0.34697	0.28913	0.26681
F0504	513	515	515	516	517	518	518	517	515	516	515	517
F0601	0.23009	0.24418	0.16708	0.30674	0.34238	0.27995	0.15795	0.26307	0.46517	0.12688	0.21443	0.14134
F0601	511	513	513	514	515	516	516	515	513	514	514	515
F0602	0.27614	0.19545	0.27221	0.24047	0.36768	0.28436	0.33642	0.18245	0.24633	0.28955	0.26347	0.25990
F0602	510	512	512	513	514	515	515	514	512	513	512	514
F0603	0.17348	0.23730	0.26887	0.15713	0.25659	0.25989	0.27430	0.17094	0.19794	0.26429	0.26203	0.25378
F0603	512	514	514	515	516	517	517	516	514	515	514	516

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	I0206	I0207	I0208	I0209	I0301	I0302	I0303	I0304	I0305	I0306	I0401	I0402
I0101	0.18506	0.16519	0.24449	0.27240	0.26374	0.29148	0.35153	0.22813	0.27842	0.29947	0.18388	0.31833
I0101	550	541	542	540	532	530	532	522	519	523	515	514
I0102	0.27313	0.21737	0.24813	0.36368	0.32260	0.29355	0.29320	0.31182	0.32270	0.33648	0.22567	0.30722
I0102	553	544	546	543	535	533	535	525	522	526	517	517
I0103	0.44181	0.36584	0.49258	0.43613	0.35750	0.42334	0.45114	0.50106	0.42263	0.45408	0.44966	0.37613
I0103	553	544	546	543	535	533	535	525	522	526	517	517
I0104	0.14537	0.12639	0.25516	0.27477	0.26425	0.26983	0.31916	0.19450	0.25203	0.28243	0.18235	0.27842
I0104	554	545	546	544	536	534	536	526	523	527	518	517
I0105	0.37639	0.24983	0.35190	0.34331	0.34970	0.40077	0.38106	0.36938	0.35202	0.37949	0.41708	0.41015
I0105	554	546	547	545	537	535	537	528	524	528	519	518
I0106	0.34766	0.34010	0.33267	0.42476	0.41332	0.43116	0.38874	0.37064	0.42774	0.41494	0.37188	0.40701
I0106	556	548	549	547	539	537	539	529	526	530	520	519
I0107	0.53705	0.55004	0.50094	0.50858	0.42952	0.46021	0.44337	0.52168	0.49368	0.42740	0.49743	0.36996
I0107	556	548	549	547	539	537	539	529	526	530	520	519
I0201	0.30822	0.23321	0.31590	0.38099	0.35881	0.36241	0.36884	0.33630	0.32779	0.36126	0.32737	0.37869
I0201	555	547	548	546	538	536	538	528	525	529	519	518
I0202	0.19081	0.10841	0.22433	0.34237	0.30843	0.26835	0.24205	0.27708	0.23243	0.28579	0.25473	0.34572
I0202	553	546	546	544	536	534	536	526	523	527	518	516
I0203	0.57704	0.50761	0.56376	0.50799	0.45327	0.46738	0.41233	0.54857	0.53542	0.42002	0.47487	0.34827
I0203	554	546	547	546	537	535	537	527	525	528	518	517
I0204	0.44313	0.45100	0.46666	0.45651	0.48371	0.49617	0.48460	0.49266	0.52468	0.44496	0.46368	0.33162
I0204	553	545	546	544	536	534	536	526	523	527	517	516
I0205	0.53444	0.46640	0.50184	0.48140	0.37528	0.43895	0.44499	0.46645	0.47986	0.41075	0.46583	0.33834
I0205	555	547	549	546	538	536	538	528	525	529	519	519
I0206	1.00000	0.61438	0.53949	0.51629	0.42054	0.46057	0.44832	0.51281	0.50639	0.43523	0.51786	0.41474
I0206	556	547	548	546	538	536	538	528	525	529	519	518
I0207	0.61438	1.00000	0.53416	0.49881	0.42666	0.44907	0.40193	0.49810	0.48388	0.36992	0.49626	0.34900
I0207	547	548	547	545	537	535	537	527	524	528	518	517
I0208	0.53949	0.53416	1.00000	0.51623	0.40974	0.47208	0.43135	0.54027	0.50933	0.50511	0.50848	0.37318
I0208	548	547	549	546	538	536	538	528	525	529	519	519
I0209	0.51629	0.49881	0.51623	1.00000	0.50024	0.46325	0.46286	0.50183	0.46359	0.40448	0.48351	0.38099
I0209	546	545	546	547	537	535	537	527	525	528	518	517
I0301	0.42054	0.42666	0.40974	0.50024	1.00000	0.55082	0.48774	0.47103	0.45308	0.46946	0.46115	0.43822
I0301	538	537	538	537	539	536	537	526	523	527	517	516
I0302	0.46057	0.44907	0.47208	0.46325	0.55082	1.00000	0.57355	0.53264	0.51230	0.50771	0.49305	0.47501
I0302	536	535	536	535	536	537	536	525	522	526	516	515
I0303	0.44832	0.40193	0.43135	0.46286	0.48774	0.57355	1.00000	0.54763	0.46434	0.48908	0.47006	0.43446
I0303	538	537	538	537	537	536	539	527	524	528	518	517
I0304	0.51281	0.49810	0.54027	0.50183	0.47103	0.53264	0.54763	1.00000	0.59404	0.52004	0.53765	0.39960
I0304	528	527	528	527	526	525	527	529	524	528	519	518
I0305	0.50639	0.48388	0.50933	0.46359	0.45308	0.51230	0.46434	0.59404	1.00000	0.55573	0.49564	0.34787
I0305	525	524	525	525	523	522	524	524	526	525	515	514
I0306	0.43523	0.36992	0.50511	0.40448	0.46946	0.50771	0.48908	0.52004	0.55573	1.00000	0.45518	0.37588
I0306	529	528	529	528	527	526	528	528	525	530	519	518

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	I0206	I0207	I0208	I0209	I0301	I0302	I0303	I0304	I0305	I0306	I0401	I0402
I0401	0.51786	0.49626	0.50848	0.48351	0.46115	0.49305	0.47006	0.53765	0.49564	0.45518	1.00000	0.51888
I0401	519	518	519	518	517	516	518	519	515	519	520	517
I0402	0.41474	0.34900	0.37318	0.38099	0.43822	0.47501	0.43446	0.39960	0.34787	0.37588	0.51888	1.00000
I0402	518	517	519	517	516	515	517	518	514	518	517	519
I0403	0.52970	0.47155	0.47030	0.45042	0.39286	0.44821	0.42388	0.50127	0.46329	0.34553	0.55981	0.56826
I0403	517	516	517	516	515	514	516	517	513	517	516	515
I0404	0.36708	0.31589	0.41731	0.42644	0.42440	0.41768	0.37589	0.41429	0.52793	0.47843	0.44395	0.44729
I0404	519	518	519	518	517	516	518	519	515	519	519	517
I0501	0.46725	0.40044	0.42522	0.49333	0.39663	0.46178	0.43574	0.44309	0.45247	0.40188	0.47250	0.45932
I0501	515	514	515	514	513	512	514	515	511	515	514	513
I0502	0.43342	0.38864	0.36983	0.46461	0.41760	0.41663	0.41809	0.42573	0.40260	0.35333	0.42142	0.44767
I0502	514	513	514	513	512	511	513	514	510	514	513	512
I0503	0.45684	0.39483	0.38373	0.45603	0.43440	0.43967	0.43282	0.42943	0.42421	0.38690	0.43387	0.45927
I0503	512	511	513	511	510	509	511	512	508	512	511	511
I0504	0.50062	0.47083	0.43989	0.51871	0.40959	0.45704	0.48453	0.49012	0.45822	0.34472	0.51092	0.40611
I0504	517	516	517	516	515	514	516	517	513	517	516	515
I0601	0.20292	0.16541	0.24599	0.38645	0.37596	0.36672	0.31097	0.32573	0.31911	0.29146	0.26565	0.39591
I0601	515	514	515	514	513	512	514	515	511	515	514	513
I0602	0.38654	0.36398	0.41208	0.41965	0.38663	0.44469	0.41942	0.42485	0.45154	0.32971	0.46290	0.38512
I0602	514	513	514	513	512	511	513	514	510	514	513	512
I0603	0.45412	0.33581	0.42896	0.48410	0.41427	0.38036	0.40282	0.43782	0.42142	0.36875	0.44616	0.38278
I0603	516	515	516	515	514	513	515	516	512	516	515	514
F0101	0.13866	0.06790	0.15853	0.17178	0.20401	0.20838	0.26195	0.11678	0.14310	0.18745	0.13816	0.21009
F0101	548	539	540	538	530	528	530	520	517	521	513	512
F0102	0.13970	0.12430	0.14156	0.22537	0.20077	0.18430	0.16817	0.17862	0.16945	0.16491	0.19412	0.16474
F0102	554	545	547	544	536	534	536	526	523	527	517	517
F0103	0.30504	0.22028	0.31269	0.29271	0.20903	0.24930	0.29440	0.34946	0.27109	0.22997	0.28411	0.23264
F0103	553	544	546	543	536	534	536	525	522	526	516	516
F0104	0.04936	0.05953	0.17999	0.16900	0.17278	0.20867	0.23160	0.14999	0.15342	0.14922	0.12890	0.18355
F0104	555	546	547	545	537	535	537	527	524	528	519	518
F0105	0.22277	0.18372	0.27036	0.26176	0.24704	0.35963	0.32052	0.28388	0.23145	0.24608	0.26934	0.25185
F0105	554	546	547	545	537	535	537	528	524	528	519	518
F0106	0.28721	0.31524	0.26424	0.35082	0.31442	0.29986	0.29583	0.32502	0.34351	0.27032	0.30866	0.32809
F0106	556	548	549	547	539	537	539	529	526	530	520	519
F0107	0.35738	0.38456	0.39186	0.42897	0.33925	0.40826	0.35804	0.43910	0.37544	0.29914	0.40426	0.26825
F0107	555	547	548	546	538	536	538	528	525	529	519	518
F0201	0.19739	0.19629	0.23467	0.29842	0.30202	0.33539	0.33601	0.27388	0.25447	0.28263	0.25955	0.24491
F0201	555	547	548	546	538	536	538	528	525	529	519	518
F0202	0.07937	0.03014	0.19026	0.25090	0.25388	0.21378	0.20360	0.17195	0.17443	0.19516	0.14966	0.20731
F0202	554	547	547	545	537	535	537	527	524	528	518	517
F0203	0.35709	0.35425	0.40491	0.40201	0.35666	0.39504	0.28791	0.39588	0.42593	0.30144	0.37111	0.25253
F0203	555	547	548	546	538	536	538	528	525	529	519	518
F0204	0.27643	0.33362	0.34355	0.33125	0.34959	0.37936	0.40461	0.37912	0.40570	0.32299	0.37050	0.23075
F0204	551	543	544	542	534	532	534	524	521	525	515	514

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	I0206	I0207	I0208	I0209	I0301	I0302	I0303	I0304	I0305	I0306	I0401	I0402
F0205	0.38724	0.40490	0.40081	0.36424	0.29876	0.36790	0.38212	0.35727	0.38916	0.30963	0.41145	0.26624
F0205	554	546	548	545	537	535	537	527	524	528	518	518
F0206	0.55754	0.42194	0.37555	0.35479	0.28288	0.36206	0.33880	0.37184	0.39285	0.27866	0.35416	0.19889
F0206	556	548	549	547	539	537	539	529	526	530	520	519
F0207	0.42460	0.61153	0.41131	0.38450	0.32405	0.42826	0.35541	0.42981	0.38938	0.29466	0.42840	0.25037
F0207	548	548	548	546	538	536	538	528	525	529	519	518
F0208	0.39102	0.36392	0.66135	0.41864	0.31716	0.40070	0.34770	0.40198	0.41775	0.41930	0.42606	0.28281
F0208	548	547	549	546	538	536	538	528	525	529	519	519
F0209	0.31951	0.37291	0.35062	0.61676	0.34054	0.36072	0.35211	0.35118	0.36522	0.28049	0.38892	0.31505
F0209	546	545	546	545	538	536	538	528	525	529	519	518
F0301	0.24313	0.30209	0.30206	0.34240	0.63913	0.41116	0.33795	0.31515	0.35302	0.33169	0.33901	0.28679
F0301	540	539	540	539	539	537	539	528	525	529	519	518
F0302	0.30192	0.30968	0.31576	0.32087	0.38883	0.65220	0.44167	0.34540	0.39046	0.35529	0.34898	0.29746
F0302	537	536	537	536	536	537	537	526	523	527	517	516
F0303	0.33283	0.35543	0.38520	0.33642	0.35935	0.48473	0.61958	0.40072	0.34205	0.35616	0.42390	0.31070
F0303	538	537	538	537	537	536	538	527	524	528	518	517
F0304	0.37969	0.40718	0.39571	0.35216	0.38114	0.41126	0.43162	0.62363	0.44743	0.37742	0.42353	0.23706
F0304	528	527	528	527	526	525	527	528	524	528	519	518
F0305	0.32362	0.34513	0.36739	0.33528	0.33156	0.40936	0.35377	0.40326	0.69830	0.44369	0.35773	0.21261
F0305	527	526	527	526	525	524	526	526	526	527	517	516
F0306	0.28826	0.25100	0.36065	0.29289	0.35120	0.37265	0.35602	0.36759	0.43254	0.63339	0.31299	0.22609
F0306	527	527	527	526	525	524	526	526	524	527	517	516
F0401	0.42164	0.39073	0.42771	0.34669	0.35047	0.42222	0.38985	0.42657	0.38208	0.35579	0.69201	0.29934
F0401	521	520	521	520	519	518	520	521	517	521	520	519
F0402	0.28899	0.25844	0.27384	0.32837	0.32312	0.38690	0.30571	0.27011	0.24242	0.34449	0.37593	0.55478
F0402	516	515	517	515	514	513	515	516	512	516	515	517
F0403	0.39601	0.41573	0.37140	0.38966	0.34693	0.43675	0.33897	0.38882	0.36914	0.30654	0.42343	0.39389
F0403	519	517	518	517	516	515	517	518	514	518	517	516
F0404	0.23014	0.19451	0.28226	0.30620	0.31553	0.30863	0.22955	0.25993	0.38616	0.33963	0.28571	0.26046
F0404	520	519	520	519	518	517	519	520	516	520	519	518
F0501	0.37110	0.33509	0.39457	0.40685	0.34705	0.39622	0.35228	0.34909	0.34955	0.31645	0.39744	0.35086
F0501	513	512	513	512	512	511	512	513	509	513	512	511
F0502	0.35481	0.33360	0.34671	0.37357	0.34546	0.35446	0.33050	0.34104	0.34210	0.28131	0.37144	0.28965
F0502	513	512	513	512	511	510	512	513	509	513	512	511
F0503	0.36696	0.33553	0.33301	0.37558	0.34974	0.38792	0.35892	0.33940	0.34789	0.30439	0.36938	0.30493
F0503	514	513	515	513	512	511	513	514	510	514	513	513
F0504	0.35523	0.34149	0.29939	0.34542	0.35648	0.35726	0.35204	0.32424	0.35788	0.28285	0.38447	0.27265
F0504	517	516	517	516	515	514	516	517	513	517	516	515
F0601	0.09030	0.07809	0.14526	0.25856	0.27167	0.24826	0.19138	0.20913	0.21273	0.22479	0.18343	0.24749
F0601	515	514	515	514	514	513	514	515	511	515	514	513
F0602	0.26923	0.28365	0.32145	0.31281	0.27869	0.37983	0.31934	0.33986	0.34119	0.25858	0.34726	0.25480
F0602	514	513	514	513	512	511	513	514	510	514	513	512
F0603	0.26439	0.18851	0.27484	0.34340	0.30567	0.28686	0.27568	0.26543	0.31158	0.25187	0.32626	0.23195
F0603	516	515	516	515	514	513	515	516	512	516	515	514

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	I0403	I0404	I0501	I0502	I0503	I0504	I0601	I0602	I0603	F0101	F0102	F0103
I0101	0.20075	0.28471	0.22386	0.25203	0.21541	0.23472	0.35455	0.32513	0.29975	0.53254	0.19203	0.19699
I0101	513	515	511	510	508	513	511	510	512	618	615	612
I0102	0.22178	0.35072	0.33730	0.32179	0.29511	0.18658	0.39859	0.31900	0.35010	0.28844	0.51227	0.22822
I0102	515	517	513	512	511	515	513	512	514	614	619	616
I0103	0.39958	0.41591	0.43324	0.39685	0.41330	0.39573	0.24530	0.37670	0.40450	0.26059	0.21987	0.58791
I0103	515	517	514	513	512	515	513	512	514	610	616	616
I0104	0.19085	0.31146	0.26314	0.25963	0.23969	0.21721	0.39442	0.30696	0.26834	0.38848	0.21916	0.23062
I0104	516	518	514	513	511	516	514	513	515	609	614	613
I0105	0.37233	0.36860	0.34470	0.31548	0.36034	0.34341	0.42663	0.45837	0.39693	0.37394	0.22443	0.25998
I0105	517	519	515	514	512	517	515	514	516	583	589	588
I0106	0.31427	0.43895	0.37939	0.35547	0.37609	0.34048	0.35496	0.36454	0.36275	0.23008	0.27088	0.30169
I0106	518	520	516	515	513	518	516	515	517	586	592	591
I0107	0.53463	0.39632	0.51132	0.46679	0.48286	0.48812	0.27069	0.44277	0.44224	0.19834	0.21623	0.37080
I0107	518	520	516	515	513	518	516	515	517	586	592	591
I0201	0.27499	0.46834	0.28939	0.25107	0.24846	0.23942	0.39252	0.31806	0.32371	0.32753	0.21213	0.29996
I0201	517	519	515	514	512	517	515	514	516	569	575	574
I0202	0.19578	0.30941	0.27867	0.28263	0.27188	0.21091	0.55486	0.36410	0.26860	0.32292	0.20134	0.23912
I0202	515	517	513	512	511	515	513	512	514	567	573	572
I0203	0.46814	0.36501	0.39577	0.35392	0.38919	0.47232	0.22997	0.41733	0.42877	0.15738	0.17036	0.33006
I0203	516	518	514	513	511	516	514	513	515	567	573	572
I0204	0.38289	0.44554	0.39282	0.33422	0.42472	0.39115	0.33986	0.43396	0.37855	0.18424	0.24450	0.34255
I0204	515	517	513	512	510	515	514	512	514	546	551	550
I0205	0.42940	0.43635	0.38471	0.36360	0.37052	0.41380	0.26658	0.39009	0.42293	0.13226	0.15397	0.32763
I0205	517	519	515	514	513	517	515	514	516	547	554	553
I0206	0.52970	0.36708	0.46725	0.43342	0.45684	0.50062	0.20292	0.38654	0.45412	0.13866	0.13970	0.30504
I0206	517	519	515	514	512	517	515	514	516	548	554	553
I0207	0.47155	0.31589	0.40044	0.38864	0.39483	0.47083	0.16541	0.36398	0.33581	0.06790	0.12430	0.22028
I0207	516	518	514	513	511	516	514	513	515	539	545	544
I0208	0.47030	0.41731	0.42522	0.36983	0.38373	0.43989	0.24599	0.41208	0.42896	0.15853	0.14156	0.31269
I0208	517	519	515	514	513	517	515	514	516	540	547	546
I0209	0.45042	0.42644	0.49333	0.46461	0.45603	0.51871	0.38645	0.41965	0.48410	0.17178	0.22537	0.29271
I0209	516	518	514	513	511	516	514	513	515	538	544	543
I0301	0.39286	0.42440	0.39663	0.41760	0.43440	0.40959	0.37596	0.38663	0.41427	0.20401	0.20077	0.20903
I0301	515	517	513	512	510	515	513	512	514	530	536	536
I0302	0.44821	0.41768	0.46178	0.41663	0.43967	0.45704	0.36672	0.44469	0.38036	0.20838	0.18430	0.24930
I0302	514	516	512	511	509	514	512	511	513	528	534	534
I0303	0.42388	0.37589	0.43574	0.41809	0.43282	0.48453	0.31097	0.41942	0.40282	0.26195	0.16817	0.29440
I0303	516	518	514	513	511	516	514	513	515	530	536	536
I0304	0.50127	0.41429	0.44309	0.42573	0.42943	0.49012	0.32573	0.42485	0.43782	0.11678	0.17862	0.34946
I0304	517	519	515	514	512	517	515	514	516	520	526	525
I0305	0.46329	0.52793	0.45247	0.40260	0.42421	0.45822	0.31911	0.45154	0.42142	0.14310	0.16945	0.27109
I0305	513	515	511	510	508	513	511	510	512	517	523	522
I0306	0.34553	0.47843	0.40188	0.35333	0.38690	0.34472	0.29146	0.32971	0.36875	0.18745	0.16491	0.22997
I0306	517	519	515	514	512	517	515	514	516	521	527	526

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	I0403	I0404	I0501	I0502	I0503	I0504	I0601	I0602	I0603	F0101	F0102	F0103
I0401	0.55981	0.44395	0.47250	0.42142	0.43387	0.51092	0.26565	0.46290	0.44616	0.13816	0.19412	0.28411
I0401	516	519	514	513	511	516	514	513	515	513	517	516
I0402	0.56826	0.44729	0.45932	0.44767	0.45927	0.40611	0.39591	0.38512	0.38278	0.21009	0.16474	0.23264
I0402	515	517	513	512	511	515	513	512	514	512	517	516
I0403	1.00000	0.41312	0.55126	0.53536	0.52400	0.56004	0.26245	0.44948	0.42407	0.10480	0.13447	0.28527
I0403	518	516	512	511	509	514	512	511	513	511	515	514
I0404	0.41312	1.00000	0.37638	0.40333	0.36627	0.38646	0.43962	0.45460	0.44349	0.19107	0.25336	0.27432
I0404	516	520	514	513	511	516	514	513	515	513	517	516
I0501	0.55126	0.37638	1.00000	0.80272	0.73826	0.60993	0.34239	0.42860	0.47400	0.12763	0.24189	0.29177
I0501	512	514	516	515	512	516	514	513	515	509	513	513
I0502	0.53536	0.40333	0.80272	1.00000	0.77801	0.59386	0.32075	0.43583	0.45956	0.14272	0.22749	0.26747
I0502	511	513	515	515	511	515	513	512	514	508	512	512
I0503	0.52400	0.36627	0.73826	0.77801	1.00000	0.60461	0.34219	0.45761	0.48372	0.14646	0.23747	0.32869
I0503	509	511	512	511	513	513	511	510	512	507	511	511
I0504	0.56004	0.38646	0.60993	0.59386	0.60461	1.00000	0.30058	0.44471	0.46410	0.13402	0.14730	0.28241
I0504	514	516	516	515	513	518	516	515	517	511	515	514
I0601	0.26245	0.43962	0.34239	0.32075	0.34219	0.30058	1.00000	0.54955	0.40943	0.28126	0.26889	0.18419
I0601	512	514	514	513	511	516	516	513	515	509	513	512
I0602	0.44948	0.45460	0.42860	0.43583	0.45761	0.44471	0.54955	1.00000	0.60489	0.27347	0.22725	0.27410
I0602	511	513	513	512	510	515	513	515	514	508	512	511
I0603	0.42407	0.44349	0.47400	0.45956	0.48372	0.46410	0.40943	0.60489	1.00000	0.25374	0.24226	0.28104
I0603	513	515	515	514	512	517	515	514	517	510	514	513
F0101	0.10480	0.19107	0.12763	0.14272	0.14646	0.13402	0.28126	0.27347	0.25374	1.00000	0.39348	0.41426
F0101	511	513	509	508	507	511	509	508	510	618	613	610
F0102	0.13447	0.25336	0.24189	0.22749	0.23747	0.14730	0.26889	0.22725	0.24226	0.39348	1.00000	0.42060
F0102	515	517	513	512	511	515	513	512	514	613	621	617
F0103	0.28527	0.27432	0.29177	0.26747	0.32869	0.28241	0.18419	0.27410	0.28104	0.41426	0.42060	1.00000
F0103	514	516	513	512	511	514	512	511	513	610	617	618
F0104	0.11735	0.19596	0.14158	0.12627	0.14198	0.13081	0.33178	0.24531	0.20167	0.52493	0.40614	0.41458
F0104	517	519	515	514	512	517	515	514	516	612	617	615
F0105	0.19798	0.26618	0.26508	0.23475	0.26277	0.25070	0.32341	0.35077	0.24313	0.44787	0.42917	0.42821
F0105	517	519	515	514	512	517	516	514	516	584	590	589
F0106	0.31247	0.32922	0.32766	0.32025	0.35533	0.29212	0.26749	0.28316	0.28685	0.35951	0.46469	0.48399
F0106	518	520	516	515	513	518	516	515	517	586	592	591
F0107	0.44013	0.31830	0.41496	0.41017	0.42188	0.42670	0.23343	0.37402	0.31908	0.34621	0.43716	0.55042
F0107	517	519	515	514	512	517	515	514	516	585	591	590
F0201	0.20388	0.32672	0.25739	0.23295	0.23875	0.20495	0.29963	0.29045	0.24330	0.49172	0.43620	0.50468
F0201	517	519	515	514	512	517	515	514	516	569	575	574
F0202	0.12401	0.20937	0.23973	0.21080	0.23197	0.14671	0.42597	0.24563	0.18049	0.43127	0.36348	0.39874
F0202	516	518	514	513	511	516	514	513	515	568	574	573
F0203	0.35619	0.28544	0.34482	0.30003	0.33627	0.36071	0.22628	0.33293	0.29280	0.32686	0.36513	0.50242
F0203	517	519	515	514	512	517	515	514	516	568	574	573
F0204	0.32355	0.33902	0.32455	0.26220	0.35552	0.33912	0.27546	0.37020	0.25988	0.27598	0.39566	0.48242
F0204	513	515	511	510	508	513	512	510	512	544	549	548

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	I0403	I0404	I0501	I0502	I0503	I0504	I0601	I0602	I0603	F0101	F0102	F0103
F0205	0.34164	0.33905	0.31550	0.31627	0.32029	0.34425	0.17562	0.30743	0.30488	0.25609	0.35003	0.44472
F0205	516	518	514	513	512	516	514	513	515	546	553	552
F0206	0.36616	0.21352	0.35140	0.33199	0.35505	0.37253	0.13604	0.32483	0.32894	0.28877	0.32274	0.49022
F0206	518	520	516	515	513	518	516	515	517	548	554	553
F0207	0.41202	0.21435	0.34417	0.34010	0.34979	0.43562	0.14581	0.28524	0.28165	0.22520	0.30198	0.40370
F0207	517	519	515	514	512	517	515	514	516	540	546	545
F0208	0.36755	0.28951	0.33642	0.31138	0.32309	0.32344	0.17056	0.31235	0.34247	0.23984	0.26622	0.42026
F0208	517	519	515	514	513	517	515	514	516	540	547	546
F0209	0.38867	0.29406	0.34556	0.30704	0.33290	0.34294	0.31365	0.33687	0.33153	0.32770	0.37470	0.44597
F0209	517	519	515	514	512	517	515	514	516	538	544	543
F0301	0.30054	0.30238	0.29839	0.27564	0.30064	0.24542	0.26138	0.27115	0.27992	0.33164	0.37654	0.35429
F0301	517	519	515	514	512	517	515	514	516	532	538	538
F0302	0.32581	0.28219	0.32747	0.31414	0.27942	0.31404	0.18932	0.29304	0.24208	0.28614	0.27072	0.32515
F0302	515	517	513	512	510	515	513	512	514	529	535	535
F0303	0.33789	0.22141	0.36700	0.30517	0.33681	0.37568	0.08266	0.28535	0.27270	0.33842	0.25001	0.40221
F0303	516	518	514	513	511	516	514	513	515	530	536	536
F0304	0.38581	0.25760	0.36013	0.31112	0.33477	0.39640	0.15340	0.30637	0.28842	0.23267	0.27027	0.47610
F0304	517	519	515	514	512	517	515	514	516	520	526	525
F0305	0.32055	0.41288	0.31015	0.26643	0.27703	0.31068	0.24424	0.33154	0.27829	0.26916	0.29172	0.37148
F0305	515	517	513	512	510	515	513	512	514	519	525	524
F0306	0.25939	0.32247	0.30874	0.27663	0.31737	0.25644	0.23683	0.26516	0.25593	0.30471	0.34163	0.41657
F0306	515	517	513	512	510	515	513	512	514	519	525	524
F0401	0.40328	0.29020	0.40262	0.35077	0.35738	0.37552	0.16174	0.35934	0.31456	0.20040	0.29443	0.42301
F0401	518	520	516	515	513	518	516	515	517	515	519	518
F0402	0.40071	0.28832	0.37846	0.31102	0.29884	0.27620	0.19534	0.25643	0.28097	0.25718	0.28841	0.31356
F0402	513	515	512	511	509	513	511	510	512	510	515	514
F0403	0.63648	0.28392	0.43079	0.40829	0.40959	0.41910	0.15498	0.35565	0.28236	0.21931	0.26798	0.39198
F0403	516	517	513	512	510	515	513	512	514	513	517	516
F0404	0.25158	0.60984	0.25387	0.23996	0.23525	0.21516	0.29187	0.29423	0.28671	0.29453	0.38153	0.37490
F0404	517	519	515	514	512	517	515	514	516	514	518	517
F0501	0.43763	0.30404	0.68943	0.59726	0.55360	0.46975	0.21231	0.33648	0.37007	0.22996	0.32273	0.43207
F0501	510	512	514	513	510	514	512	511	513	507	511	511
F0502	0.38988	0.27188	0.60248	0.64939	0.57346	0.44993	0.18631	0.33843	0.33736	0.20386	0.30439	0.43421
F0502	510	512	514	514	510	514	512	511	513	507	511	511
F0503	0.39078	0.24383	0.56366	0.56476	0.64425	0.47196	0.20739	0.38208	0.33648	0.23938	0.32028	0.41840
F0503	511	513	514	513	513	515	513	512	514	509	513	513
F0504	0.37698	0.25922	0.45432	0.41529	0.46478	0.66866	0.15705	0.29845	0.32571	0.24765	0.25782	0.40318
F0504	514	516	516	515	513	518	516	515	517	511	515	514
F0601	0.14967	0.27388	0.24201	0.20812	0.22744	0.16824	0.69048	0.41284	0.29103	0.39286	0.35777	0.32403
F0601	512	514	514	513	511	516	515	513	515	509	513	512
F0602	0.32513	0.30533	0.29435	0.27664	0.30494	0.31540	0.36307	0.69189	0.42961	0.36438	0.28310	0.36101
F0602	511	513	513	512	511	515	513	514	514	508	512	511
F0603	0.28726	0.26247	0.32634	0.28134	0.33314	0.30720	0.29611	0.38162	0.60909	0.30132	0.35571	0.39567
F0603	513	515	515	514	512	517	515	514	516	510	514	513

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	F0104	F0105	F0106	F0107	F0201	F0202	F0203	F0204	F0205	F0206	F0207	F0208
I0101	0.37605	0.25273	0.24942	0.17426	0.22843	0.29035	0.18248	0.17216	0.18204	0.10485	0.15665	0.16726
I0101	614	586	588	587	571	570	570	546	548	550	542	542
I0102	0.24368	0.23170	0.27711	0.20040	0.24956	0.25071	0.21515	0.20740	0.20235	0.17684	0.15908	0.19930
I0102	617	589	591	590	574	573	573	548	552	553	545	546
I0103	0.21044	0.27052	0.32878	0.38680	0.29155	0.22256	0.33209	0.34127	0.34190	0.32031	0.33003	0.38014
I0103	616	589	591	590	574	573	573	548	552	553	545	546
I0104	0.63818	0.31767	0.28231	0.19144	0.30244	0.46846	0.18654	0.25002	0.26325	0.13496	0.12553	0.19358
I0104	616	589	591	590	575	574	574	549	552	554	546	546
I0105	0.36476	0.61856	0.31799	0.31988	0.29697	0.40033	0.26422	0.30826	0.30592	0.26995	0.21118	0.28722
I0105	590	591	592	591	576	575	575	551	553	555	547	547
I0106	0.27183	0.31990	0.64017	0.33036	0.30051	0.27847	0.32003	0.38470	0.33430	0.29563	0.31178	0.27913
I0106	593	593	595	594	578	577	577	552	555	557	549	549
I0107	0.14672	0.29145	0.33255	0.61740	0.21574	0.16613	0.38384	0.37614	0.36275	0.37558	0.40709	0.36856
I0107	593	593	595	594	578	577	577	552	555	557	549	549
I0201	0.29692	0.27545	0.35219	0.28430	0.55897	0.34633	0.26387	0.27035	0.22064	0.18602	0.17529	0.23788
I0201	576	576	578	577	578	576	576	551	554	556	548	548
I0202	0.38226	0.32332	0.23212	0.25174	0.26444	0.66537	0.19096	0.26529	0.23954	0.12925	0.11275	0.17361
I0202	574	574	576	575	575	575	574	549	552	554	546	546
I0203	0.08070	0.19988	0.29437	0.39220	0.23837	0.07425	0.59716	0.34367	0.35503	0.39221	0.41157	0.41682
I0203	574	574	576	575	575	574	575	550	553	555	547	547
I0204	0.15117	0.30199	0.38515	0.43002	0.29470	0.24200	0.37424	0.67388	0.39294	0.31773	0.33266	0.35242
I0204	552	552	554	553	553	552	553	552	552	554	546	546
I0205	0.17031	0.26061	0.29866	0.34219	0.22323	0.17244	0.32505	0.32724	0.59363	0.35802	0.35300	0.37287
I0205	554	554	556	555	555	554	555	551	555	556	548	549
I0206	0.04936	0.22277	0.28721	0.35738	0.19739	0.07937	0.35709	0.27643	0.38724	0.55754	0.42460	0.39102
I0206	555	554	556	555	555	554	555	551	554	556	548	548
I0207	0.05953	0.18372	0.31524	0.38456	0.19629	0.03014	0.35425	0.33362	0.40490	0.42194	0.61153	0.36392
I0207	546	546	548	547	547	547	547	543	546	548	548	547
I0208	0.17999	0.27036	0.26424	0.39186	0.23467	0.19026	0.40491	0.34355	0.40081	0.37555	0.41131	0.66135
I0208	547	547	549	548	548	547	548	544	548	549	548	549
I0209	0.16900	0.26176	0.35082	0.42897	0.29842	0.25090	0.40201	0.33125	0.36424	0.35479	0.38450	0.41864
I0209	545	545	547	546	546	545	546	542	545	547	546	546
I0301	0.17278	0.24704	0.31442	0.33925	0.30202	0.25388	0.35666	0.34959	0.29876	0.28288	0.32405	0.31716
I0301	537	537	539	538	538	537	538	534	537	539	538	538
I0302	0.20867	0.35963	0.29986	0.40826	0.33539	0.21378	0.39504	0.37936	0.36790	0.36206	0.42826	0.40070
I0302	535	535	537	536	536	535	536	532	535	537	536	536
I0303	0.23160	0.32052	0.29583	0.35804	0.33601	0.20360	0.28791	0.40461	0.38212	0.33880	0.35541	0.34770
I0303	537	537	539	538	538	537	538	534	537	539	538	538
I0304	0.14999	0.28388	0.32502	0.43910	0.27388	0.17195	0.39588	0.37912	0.35727	0.37184	0.42981	0.40198
I0304	527	528	529	528	528	527	528	524	527	529	528	528
I0305	0.15342	0.23145	0.34351	0.37544	0.25447	0.17443	0.42593	0.40570	0.38916	0.39285	0.38938	0.41775
I0305	524	524	526	525	525	524	525	521	524	526	525	525
I0306	0.14922	0.24608	0.27032	0.29914	0.28263	0.19516	0.30144	0.32299	0.30963	0.27866	0.29466	0.41930
I0306	528	528	530	529	529	528	529	525	528	530	529	529

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	F0104	F0105	F0106	F0107	F0201	F0202	F0203	F0204	F0205	F0206	F0207	F0208
I0401	0.12890	0.26934	0.30866	0.40426	0.25955	0.14966	0.37111	0.37050	0.41145	0.35416	0.42840	0.42606
I0401	519	519	520	519	519	518	519	515	518	520	519	519
I0402	0.18355	0.25185	0.32809	0.26825	0.24491	0.20731	0.25253	0.23075	0.26624	0.19889	0.25037	0.28281
I0402	518	518	519	518	518	517	518	514	518	519	518	519
I0403	0.11735	0.19798	0.31247	0.44013	0.20388	0.12401	0.35619	0.32355	0.34164	0.36616	0.41202	0.36755
I0403	517	517	518	517	517	516	517	513	516	518	517	517
I0404	0.19596	0.26618	0.32922	0.31830	0.32672	0.20937	0.28544	0.33902	0.33905	0.21352	0.21435	0.28951
I0404	519	519	520	519	519	518	519	515	518	520	519	519
I0501	0.14158	0.26508	0.32766	0.41496	0.25739	0.23973	0.34482	0.32455	0.31550	0.35140	0.34417	0.33642
I0501	515	515	516	515	515	514	515	511	514	516	515	515
I0502	0.12627	0.23475	0.32025	0.41017	0.23295	0.21080	0.30003	0.26220	0.31627	0.33199	0.34010	0.31138
I0502	514	514	515	514	514	513	514	510	513	515	514	514
I0503	0.14198	0.26277	0.35533	0.42188	0.23875	0.23197	0.33627	0.35552	0.32029	0.35505	0.34979	0.32309
I0503	512	512	513	512	512	511	512	508	512	513	512	513
I0504	0.13081	0.25070	0.29212	0.42670	0.20495	0.14671	0.36071	0.33912	0.34425	0.37253	0.43562	0.32344
I0504	517	517	518	517	517	516	517	513	516	518	517	517
I0601	0.33178	0.32341	0.26749	0.23343	0.29963	0.42597	0.22628	0.27546	0.17562	0.13604	0.14581	0.17056
I0601	515	516	516	515	515	514	515	512	514	516	515	515
I0602	0.24531	0.35077	0.28316	0.37402	0.29045	0.24563	0.33293	0.37020	0.30743	0.32483	0.28524	0.31235
I0602	514	514	515	514	514	513	514	510	513	515	514	514
I0603	0.20167	0.24313	0.28685	0.31908	0.24330	0.18049	0.29280	0.25988	0.30488	0.32894	0.28165	0.34247
I0603	516	516	517	516	516	515	516	512	515	517	516	516
F0101	0.52493	0.44787	0.35951	0.34621	0.49172	0.43127	0.32686	0.27598	0.25609	0.28877	0.22520	0.23984
F0101	612	584	586	585	569	568	568	544	546	548	540	540
F0102	0.40614	0.42917	0.46469	0.43716	0.43620	0.36348	0.36513	0.39566	0.35003	0.32274	0.30198	0.26622
F0102	617	590	592	591	575	574	574	549	553	554	546	547
F0103	0.41458	0.42821	0.48399	0.55042	0.50468	0.39874	0.50242	0.48242	0.44472	0.49022	0.40370	0.42026
F0103	615	589	591	590	574	573	573	548	552	553	545	546
F0104	1.00000	0.50384	0.40514	0.38901	0.47034	0.59809	0.32054	0.34203	0.34416	0.24095	0.18462	0.28426
F0104	619	591	593	592	576	575	575	550	553	555	547	547
F0105	0.50384	1.00000	0.47059	0.47875	0.48720	0.53453	0.40810	0.44200	0.44542	0.39709	0.32726	0.39153
F0105	591	593	593	592	576	575	575	550	553	555	547	547
F0106	0.40514	0.47059	1.00000	0.50217	0.53948	0.42233	0.47243	0.52960	0.41503	0.44291	0.44210	0.32979
F0106	593	593	595	594	578	577	577	552	555	557	549	549
F0107	0.38901	0.47875	0.50217	1.00000	0.49069	0.41321	0.58606	0.56401	0.53524	0.57875	0.57875	0.51069
F0107	592	592	594	594	577	576	576	551	554	556	548	548
F0201	0.47034	0.48720	0.53948	0.49069	1.00000	0.48325	0.50525	0.48009	0.37139	0.37054	0.35138	0.37214
F0201	576	576	578	577	578	576	576	551	554	556	548	548
F0202	0.59809	0.53453	0.42233	0.41321	0.48325	1.00000	0.34566	0.45500	0.38337	0.28872	0.23042	0.31579
F0202	575	575	577	576	576	577	575	550	553	555	547	547
F0203	0.32054	0.40810	0.47243	0.58606	0.50525	0.34566	1.00000	0.55774	0.52154	0.53629	0.55644	0.54858
F0203	575	575	577	576	576	575	577	551	554	556	548	548
F0204	0.34203	0.44200	0.52960	0.56401	0.48009	0.45500	0.55774	1.00000	0.56314	0.44531	0.47778	0.45669
F0204	550	550	552	551	551	550	551	552	550	552	544	544

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	F0104	F0105	F0106	F0107	F0201	F0202	F0203	F0204	F0205	F0206	F0207	F0208
F0205	0.34416	0.44542	0.41503	0.53524	0.37139	0.38337	0.52154	0.56314	1.00000	0.57013	0.50883	0.48807
F0205	553	553	555	554	554	553	554	550	555	555	547	548
F0206	0.24095	0.39709	0.44291	0.57875	0.37054	0.28872	0.53629	0.44531	0.57013	1.00000	0.64393	0.51232
F0206	555	555	557	556	556	555	556	552	555	557	549	549
F0207	0.18462	0.32726	0.44210	0.57875	0.35138	0.23042	0.55644	0.47778	0.50883	0.64393	1.00000	0.51373
F0207	547	547	549	548	548	547	548	544	547	549	549	548
F0208	0.28426	0.39153	0.32979	0.51069	0.37214	0.31579	0.54858	0.45669	0.48807	0.51232	0.51373	1.00000
F0208	547	547	549	548	548	547	548	544	548	549	548	549
F0209	0.33641	0.37125	0.47655	0.57154	0.46680	0.41839	0.53931	0.46570	0.46539	0.52929	0.55921	0.52358
F0209	545	545	547	546	546	545	546	542	545	547	546	546
F0301	0.34508	0.38671	0.43772	0.47995	0.46083	0.39630	0.50475	0.53567	0.46162	0.45349	0.48224	0.43943
F0301	539	539	541	540	540	539	540	536	539	541	540	540
F0302	0.27364	0.39147	0.41232	0.47066	0.39533	0.31489	0.46580	0.44103	0.43260	0.46098	0.47302	0.46501
F0302	536	536	538	537	537	536	537	533	536	538	537	537
F0303	0.27982	0.35588	0.37784	0.47921	0.42942	0.27959	0.46627	0.48628	0.47282	0.49443	0.53974	0.48640
F0303	537	537	539	538	538	537	538	534	537	539	538	538
F0304	0.23280	0.39053	0.44588	0.55016	0.42409	0.28432	0.56336	0.52726	0.46986	0.58587	0.62419	0.49136
F0304	527	528	529	528	528	527	528	524	527	529	528	528
F0305	0.27240	0.35889	0.42982	0.48381	0.43891	0.33222	0.53810	0.53439	0.50790	0.50990	0.49757	0.49096
F0305	526	526	528	527	527	526	527	523	526	528	527	527
F0306	0.29642	0.39353	0.45880	0.46747	0.46606	0.37651	0.45567	0.49372	0.44080	0.45868	0.46274	0.47525
F0306	526	526	528	527	527	526	527	523	526	528	528	527
F0401	0.17871	0.37258	0.36382	0.53815	0.33772	0.26619	0.45574	0.46852	0.47415	0.52362	0.60575	0.52923
F0401	521	521	522	521	521	520	521	517	520	522	521	521
F0402	0.21323	0.29744	0.40219	0.40512	0.39631	0.27219	0.42350	0.37150	0.33713	0.36741	0.44610	0.41540
F0402	516	516	517	516	516	515	516	512	516	517	516	517
F0403	0.15035	0.33881	0.43189	0.58985	0.36315	0.24596	0.51731	0.46435	0.44468	0.53343	0.61937	0.45613
F0403	519	518	519	518	518	517	518	514	517	519	518	518
F0404	0.33129	0.35282	0.41614	0.44146	0.42799	0.38691	0.47269	0.49929	0.45594	0.36655	0.38362	0.39828
F0404	520	520	521	520	520	519	520	516	519	521	520	520
F0501	0.25079	0.34173	0.44845	0.59039	0.36564	0.33873	0.50485	0.43401	0.48711	0.54573	0.53811	0.46406
F0501	513	513	514	513	513	512	513	509	512	514	513	513
F0502	0.23121	0.33633	0.42474	0.54580	0.36990	0.29532	0.48433	0.39144	0.46588	0.52263	0.52412	0.42651
F0502	513	513	514	513	513	512	513	509	512	514	513	513
F0503	0.21829	0.34220	0.40948	0.58222	0.36321	0.31000	0.46592	0.45130	0.41946	0.53204	0.54973	0.43384
F0503	514	514	515	514	514	513	514	510	514	515	514	515
F0504	0.21878	0.30412	0.38825	0.52644	0.30928	0.26664	0.46391	0.42574	0.42879	0.50506	0.58385	0.39997
F0504	517	517	518	517	517	516	517	513	516	518	517	517
F0601	0.43418	0.44559	0.36032	0.33926	0.44457	0.54138	0.35553	0.39677	0.29281	0.28935	0.27681	0.26888
F0601	515	515	516	515	515	514	515	512	514	516	515	515
F0602	0.37711	0.44112	0.37025	0.47204	0.37904	0.36182	0.42213	0.40322	0.39454	0.46472	0.42760	0.41649
F0602	514	514	515	514	514	513	514	510	513	515	514	514
F0603	0.29513	0.32140	0.37848	0.44044	0.35207	0.33894	0.40316	0.36702	0.37705	0.43538	0.41987	0.40818
F0603	516	516	517	516	516	515	516	512	515	517	516	516

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	F0209	F0301	F0302	F0303	F0304	F0305	F0306	F0401	F0402	F0403	F0404	F0501
I0101	0.22111	0.22355	0.23190	0.25455	0.15379	0.18692	0.24294	0.11263	0.22040	0.14409	0.18787	0.14113
I0101	540	534	531	532	522	521	521	517	512	515	516	509
I0102	0.26947	0.25650	0.21534	0.15295	0.15729	0.23970	0.27168	0.13952	0.20811	0.16694	0.23788	0.22370
I0102	543	537	534	535	525	524	524	519	515	517	518	511
I0103	0.33642	0.23771	0.30367	0.38742	0.38019	0.30436	0.36057	0.35746	0.28045	0.33038	0.25890	0.33781
I0103	543	537	534	535	525	524	524	519	515	517	518	512
I0104	0.22349	0.22412	0.16900	0.18043	0.14196	0.23329	0.24731	0.09405	0.14246	0.09359	0.20294	0.17266
I0104	544	538	535	536	526	525	525	520	515	518	519	512
I0105	0.22943	0.28212	0.30715	0.24947	0.26057	0.26852	0.29348	0.30491	0.27141	0.28689	0.20498	0.27601
I0105	545	539	536	537	528	526	526	521	516	518	520	513
I0106	0.32253	0.27649	0.29808	0.30002	0.31500	0.35656	0.37456	0.27996	0.29712	0.28944	0.32772	0.31104
I0106	547	541	538	539	529	528	528	522	517	519	521	514
I0107	0.38180	0.26137	0.31187	0.33864	0.41138	0.34338	0.33185	0.38805	0.27200	0.41863	0.23606	0.42409
I0107	547	541	538	539	529	528	528	522	517	519	521	514
I0201	0.31245	0.25759	0.23746	0.26837	0.24139	0.24259	0.28160	0.22496	0.20079	0.19063	0.25074	0.21291
I0201	546	540	537	538	528	527	527	521	516	518	520	513
I0202	0.29869	0.23504	0.18398	0.14375	0.15021	0.20361	0.25083	0.16286	0.17485	0.13573	0.25567	0.17634
I0202	544	538	535	536	526	525	525	519	514	516	518	511
I0203	0.38499	0.30154	0.32063	0.34844	0.42614	0.37819	0.32703	0.35321	0.27477	0.37631	0.24911	0.33997
I0203	545	539	536	537	527	526	526	520	515	517	519	512
I0204	0.32229	0.33623	0.34584	0.35351	0.39684	0.39845	0.34519	0.35922	0.22478	0.32914	0.30811	0.31167
I0204	544	538	535	536	526	525	525	519	514	516	518	511
I0205	0.29558	0.24597	0.27465	0.31048	0.32349	0.35200	0.29304	0.35353	0.22420	0.32231	0.23236	0.31506
I0205	546	540	537	538	528	527	527	521	517	518	520	513
I0206	0.31951	0.24313	0.30192	0.33283	0.37969	0.32362	0.28826	0.42164	0.28899	0.39601	0.23014	0.37110
I0206	546	540	537	538	528	527	527	521	516	519	520	513
I0207	0.37291	0.30209	0.30968	0.35543	0.40718	0.34513	0.25100	0.39073	0.25844	0.41573	0.19451	0.33509
I0207	545	539	536	537	527	526	527	520	515	517	519	512
I0208	0.35062	0.30206	0.31576	0.38520	0.39571	0.36739	0.36065	0.42771	0.27384	0.37140	0.28226	0.39457
I0208	546	540	537	538	528	527	527	521	517	518	520	513
I0209	0.61676	0.34240	0.32087	0.33642	0.35216	0.33528	0.29289	0.34669	0.32837	0.38966	0.30620	0.40685
I0209	545	539	536	537	527	526	526	520	515	517	519	512
I0301	0.34054	0.63913	0.38883	0.35935	0.38114	0.33156	0.35120	0.35047	0.32312	0.34693	0.31553	0.34705
I0301	538	539	536	537	526	525	525	519	514	516	518	512
I0302	0.36072	0.41116	0.65220	0.48473	0.41126	0.40936	0.37265	0.42222	0.38690	0.43675	0.30863	0.39622
I0302	536	537	537	536	525	524	524	518	513	515	517	511
I0303	0.35211	0.33795	0.44167	0.61958	0.43162	0.35377	0.35602	0.38985	0.30571	0.33897	0.22955	0.35228
I0303	538	539	537	538	527	526	526	520	515	517	519	512
I0304	0.35118	0.31515	0.34540	0.40072	0.62363	0.40326	0.36759	0.42657	0.27011	0.38882	0.25993	0.34909
I0304	528	528	526	527	528	526	526	521	516	518	520	513
I0305	0.36522	0.35302	0.39046	0.34205	0.44743	0.69830	0.43254	0.38208	0.24242	0.36914	0.38616	0.34955
I0305	525	525	523	524	524	526	524	517	512	514	516	509
I0306	0.28049	0.33169	0.35529	0.35616	0.37742	0.44369	0.63339	0.35579	0.34449	0.30654	0.33963	0.31645
I0306	529	529	527	528	528	527	527	521	516	518	520	513

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	F0209	F0301	F0302	F0303	F0304	F0305	F0306	F0401	F0402	F0403	F0404	F0501
I0401	0.38892	0.33901	0.34898	0.42390	0.42353	0.35773	0.31299	0.69201	0.37593	0.42343	0.28571	0.39744
I0401	519	519	517	518	519	517	517	520	515	517	519	512
I0402	0.31505	0.28679	0.29746	0.31070	0.23706	0.21261	0.22609	0.29934	0.55478	0.39389	0.26046	0.35086
I0402	518	518	516	517	518	516	516	519	517	516	518	511
I0403	0.38867	0.30054	0.32581	0.33789	0.38581	0.32055	0.25939	0.40328	0.40071	0.63648	0.25158	0.43763
I0403	517	517	515	516	517	515	515	518	513	516	517	510
I0404	0.29406	0.30238	0.28219	0.22141	0.25760	0.41288	0.32247	0.29020	0.28832	0.28392	0.60984	0.30404
I0404	519	519	517	518	519	517	517	520	515	517	519	512
I0501	0.34556	0.29839	0.32747	0.36700	0.36013	0.31015	0.30874	0.40262	0.37846	0.43079	0.25387	0.68943
I0501	515	515	513	514	515	513	513	516	512	513	515	514
I0502	0.30704	0.27564	0.31414	0.30517	0.31112	0.26643	0.27663	0.35077	0.31102	0.40829	0.23996	0.59726
I0502	514	514	512	513	514	512	512	515	511	512	514	513
I0503	0.33290	0.30064	0.27942	0.33681	0.33477	0.27703	0.31737	0.35738	0.29884	0.40959	0.23525	0.55360
I0503	512	512	510	511	512	510	510	513	509	510	512	510
I0504	0.34294	0.24542	0.31404	0.37568	0.39640	0.31068	0.25644	0.37552	0.27620	0.41910	0.21516	0.46975
I0504	517	517	515	516	517	515	515	518	513	515	517	514
I0601	0.31365	0.26138	0.18932	0.08266	0.15340	0.24424	0.23683	0.16174	0.19534	0.15498	0.29187	0.21231
I0601	515	515	513	514	515	513	513	516	511	513	515	512
I0602	0.33687	0.27115	0.29304	0.28535	0.30637	0.33154	0.26516	0.35934	0.25643	0.35565	0.29423	0.33648
I0602	514	514	512	513	514	512	512	515	510	512	514	511
I0603	0.33153	0.27992	0.24208	0.27270	0.28842	0.27829	0.25593	0.31456	0.28097	0.28236	0.28671	0.37007
I0603	516	516	514	515	516	514	514	517	512	514	516	513
F0101	0.32770	0.33164	0.28614	0.33842	0.23267	0.26916	0.30471	0.20040	0.25718	0.21931	0.29453	0.22996
F0101	538	532	529	530	520	519	519	515	510	513	514	507
F0102	0.37470	0.37654	0.27072	0.25001	0.27027	0.29172	0.34163	0.29443	0.28841	0.26798	0.38153	0.32273
F0102	544	538	535	536	526	525	525	519	515	517	518	511
F0103	0.44597	0.35429	0.32515	0.40221	0.47610	0.37148	0.41657	0.42301	0.31356	0.39198	0.37490	0.43207
F0103	543	538	535	536	525	524	524	518	514	516	517	511
F0104	0.33641	0.34508	0.27364	0.27982	0.23280	0.27240	0.29642	0.17871	0.21323	0.15035	0.33129	0.25079
F0104	545	539	536	537	527	526	526	521	516	519	520	513
F0105	0.37125	0.38671	0.39147	0.35588	0.39053	0.35889	0.39353	0.37258	0.29744	0.33881	0.35282	0.34173
F0105	545	539	536	537	528	526	526	521	516	518	520	513
F0106	0.47655	0.43772	0.41232	0.37784	0.44588	0.42982	0.45880	0.36382	0.40219	0.43189	0.41614	0.44845
F0106	547	541	538	539	529	528	528	522	517	519	521	514
F0107	0.57154	0.47995	0.47066	0.47921	0.55016	0.48381	0.46747	0.53815	0.40512	0.58985	0.44146	0.59039
F0107	546	540	537	538	528	527	527	521	516	518	520	513
F0201	0.46680	0.46083	0.39533	0.42942	0.42409	0.43891	0.46606	0.33772	0.39631	0.36315	0.42799	0.36564
F0201	546	540	537	538	528	527	527	521	516	518	520	513
F0202	0.41839	0.39630	0.31489	0.27959	0.28432	0.33222	0.37651	0.26619	0.27219	0.24596	0.38691	0.33873
F0202	545	539	536	537	527	526	526	520	515	517	519	512
F0203	0.53931	0.50475	0.46580	0.46627	0.56336	0.53810	0.45567	0.45574	0.42350	0.51731	0.47269	0.50485
F0203	546	540	537	538	528	527	527	521	516	518	520	513
F0204	0.46570	0.53567	0.44103	0.48628	0.52726	0.53439	0.49372	0.46852	0.37150	0.46435	0.49929	0.43401
F0204	542	536	533	534	524	523	523	517	512	514	516	509

The CORR Procedure

Pearson Correlation Coefficients												
Number of Observations												
	F0209	F0301	F0302	F0303	F0304	F0305	F0306	F0401	F0402	F0403	F0404	F0501
F0205	0.46539	0.46162	0.43260	0.47282	0.46986	0.50790	0.44080	0.47415	0.33713	0.44468	0.45594	0.48711
F0205	545	539	536	537	527	526	526	520	516	517	519	512
F0206	0.52929	0.45349	0.46098	0.49443	0.58587	0.50990	0.45868	0.52362	0.36741	0.53343	0.36655	0.54573
F0206	547	541	538	539	529	528	528	522	517	519	521	514
F0207	0.55921	0.48224	0.47302	0.53974	0.62419	0.49757	0.46274	0.60575	0.44610	0.61937	0.38362	0.53811
F0207	546	540	537	538	528	527	528	521	516	518	520	513
F0208	0.52358	0.43943	0.46501	0.48640	0.49136	0.49096	0.47525	0.52923	0.41540	0.45613	0.39828	0.46406
F0208	546	540	537	538	528	527	527	521	517	518	520	513
F0209	1.00000	0.51639	0.44453	0.48087	0.49078	0.48403	0.45937	0.48104	0.41705	0.51192	0.45385	0.50971
F0209	547	540	537	538	528	527	527	521	516	518	520	513
F0301	0.51639	1.00000	0.54341	0.46803	0.49102	0.47940	0.54148	0.49739	0.47070	0.49939	0.52188	0.47835
F0301	540	541	538	539	528	527	527	521	516	518	520	513
F0302	0.44453	0.54341	1.00000	0.61494	0.49228	0.44751	0.45419	0.50229	0.49351	0.48949	0.41798	0.45744
F0302	537	538	538	537	526	525	525	519	514	516	518	511
F0303	0.48087	0.46803	0.61494	1.00000	0.63046	0.49231	0.50547	0.60189	0.48465	0.51670	0.38141	0.47792
F0303	538	539	537	539	527	526	526	520	515	517	519	512
F0304	0.49078	0.49102	0.49228	0.63046	1.00000	0.60182	0.55778	0.60734	0.43060	0.54237	0.41921	0.50651
F0304	528	528	526	527	529	526	526	521	516	518	520	513
F0305	0.48403	0.47940	0.44751	0.49231	0.60182	1.00000	0.59891	0.47948	0.33302	0.45126	0.54073	0.40630
F0305	527	527	525	526	526	528	526	519	514	516	518	511
F0306	0.45937	0.54148	0.45419	0.50547	0.55778	0.59891	1.00000	0.49631	0.44364	0.46984	0.52671	0.44525
F0306	527	527	525	526	526	526	528	519	514	516	518	511
F0401	0.48104	0.49739	0.50229	0.60189	0.60734	0.47948	0.49631	1.00000	0.47597	0.57456	0.41133	0.54339
F0401	521	521	519	520	521	519	519	522	517	519	521	514
F0402	0.41705	0.47070	0.49351	0.48465	0.43060	0.33302	0.44364	0.47597	1.00000	0.63056	0.42893	0.50805
F0402	516	516	514	515	516	514	514	517	517	514	516	510
F0403	0.51192	0.49939	0.48949	0.51670	0.54237	0.45126	0.46984	0.57456	0.63056	1.00000	0.41786	0.61928
F0403	518	518	516	517	518	516	516	519	514	519	518	511
F0404	0.45385	0.52188	0.41798	0.38141	0.41921	0.54073	0.52671	0.41133	0.42893	0.41786	1.00000	0.43744
F0404	520	520	518	519	520	518	518	521	516	518	521	513
F0501	0.50971	0.47835	0.45744	0.47792	0.50651	0.40630	0.44525	0.54339	0.50805	0.61928	0.43744	1.00000
F0501	513	513	511	512	513	511	511	514	510	511	513	514
F0502	0.47196	0.45650	0.42307	0.44899	0.48692	0.40505	0.42384	0.51780	0.45725	0.57837	0.41554	0.81941
F0502	513	513	511	512	513	511	511	514	510	511	513	512
F0503	0.49285	0.43675	0.41730	0.46439	0.48921	0.41268	0.45127	0.53418	0.47641	0.59740	0.40786	0.74743
F0503	514	514	512	513	514	512	512	515	511	512	514	512
F0504	0.49821	0.47865	0.42851	0.49872	0.51562	0.42975	0.46275	0.51461	0.43989	0.55549	0.41060	0.61986
F0504	517	517	515	516	517	515	515	518	513	515	517	514
F0601	0.41471	0.39573	0.28439	0.23842	0.31558	0.35699	0.36220	0.27797	0.30864	0.28602	0.47332	0.36057
F0601	515	515	513	514	515	513	513	516	511	513	515	513
F0602	0.44585	0.38049	0.39947	0.43444	0.43118	0.42236	0.35131	0.41448	0.39402	0.48615	0.39595	0.44899
F0602	514	514	512	513	514	512	512	515	510	512	514	511
F0603	0.50547	0.43094	0.36761	0.37401	0.41392	0.41179	0.39978	0.43749	0.40955	0.47198	0.43326	0.49425
F0603	516	516	514	515	516	514	514	517	512	514	516	513

The CORR Procedure

Pearson Correlation Coefficients						
Number of Observations						
	F0502	F0503	F0504	F0601	F0602	F0603
I0101	0.14233	0.16925	0.15727	0.23009	0.27614	0.17348
I0101	509	510	513	511	510	512
I0102	0.23910	0.20298	0.13890	0.24418	0.19545	0.23730
I0102	511	513	515	513	512	514
I0103	0.32975	0.30668	0.32392	0.16708	0.27221	0.26887
I0103	512	514	515	513	512	514
I0104	0.17083	0.15206	0.15766	0.30674	0.24047	0.15713
I0104	512	513	516	514	513	515
I0105	0.25736	0.26710	0.24498	0.34238	0.36768	0.25659
I0105	513	514	517	515	514	516
I0106	0.30289	0.29484	0.30982	0.27995	0.28436	0.25989
I0106	514	515	518	516	515	517
I0107	0.37428	0.41146	0.37743	0.15795	0.33642	0.27430
I0107	514	515	518	516	515	517
I0201	0.18248	0.17042	0.15747	0.26307	0.18245	0.17094
I0201	513	514	517	515	514	516
I0202	0.18148	0.21130	0.18974	0.46517	0.24633	0.19794
I0202	511	512	515	513	512	514
I0203	0.33112	0.30783	0.34697	0.12688	0.28955	0.26429
I0203	512	513	516	514	513	515
I0204	0.28716	0.30577	0.28913	0.21443	0.26347	0.26203
I0204	511	512	515	514	512	514
I0205	0.31050	0.28250	0.26681	0.14134	0.25990	0.25378
I0205	513	515	517	515	514	516
I0206	0.35481	0.36696	0.35523	0.09030	0.26923	0.26439
I0206	513	514	517	515	514	516
I0207	0.33360	0.33553	0.34149	0.07809	0.28365	0.18851
I0207	512	513	516	514	513	515
I0208	0.34671	0.33301	0.29939	0.14526	0.32145	0.27484
I0208	513	515	517	515	514	516
I0209	0.37357	0.37558	0.34542	0.25856	0.31281	0.34340
I0209	512	513	516	514	513	515
I0301	0.34546	0.34974	0.35648	0.27167	0.27869	0.30567
I0301	511	512	515	514	512	514
I0302	0.35446	0.38792	0.35726	0.24826	0.37983	0.28686
I0302	510	511	514	513	511	513
I0303	0.33050	0.35892	0.35204	0.19138	0.31934	0.27568
I0303	512	513	516	514	513	515
I0304	0.34104	0.33940	0.32424	0.20913	0.33986	0.26543
I0304	513	514	517	515	514	516
I0305	0.34210	0.34789	0.35788	0.21273	0.34119	0.31158
I0305	509	510	513	511	510	512
I0306	0.28131	0.30439	0.28285	0.22479	0.25858	0.25187
I0306	513	514	517	515	514	516

The CORR Procedure

Pearson Correlation Coefficients						
Number of Observations						
	F0502	F0503	F0504	F0601	F0602	F0603
I0401	0.37144	0.36938	0.38447	0.18343	0.34726	0.32626
I0401	512	513	516	514	513	515
I0402	0.28965	0.30493	0.27265	0.24749	0.25480	0.23195
I0402	511	513	515	513	512	514
I0403	0.38988	0.39078	0.37698	0.14967	0.32513	0.28726
I0403	510	511	514	512	511	513
I0404	0.27188	0.24383	0.25922	0.27388	0.30533	0.26247
I0404	512	513	516	514	513	515
I0501	0.60248	0.56366	0.45432	0.24201	0.29435	0.32634
I0501	514	514	516	514	513	515
I0502	0.64939	0.56476	0.41529	0.20812	0.27664	0.28134
I0502	514	513	515	513	512	514
I0503	0.57346	0.64425	0.46478	0.22744	0.30494	0.33314
I0503	510	513	513	511	511	512
I0504	0.44993	0.47196	0.66866	0.16824	0.31540	0.30720
I0504	514	515	518	516	515	517
I0601	0.18631	0.20739	0.15705	0.69048	0.36307	0.29611
I0601	512	513	516	515	513	515
I0602	0.33843	0.38208	0.29845	0.41284	0.69189	0.38162
I0602	511	512	515	513	514	514
I0603	0.33736	0.33648	0.32571	0.29103	0.42961	0.60909
I0603	513	514	517	515	514	516
F0101	0.20386	0.23938	0.24765	0.39286	0.36438	0.30132
F0101	507	509	511	509	508	510
F0102	0.30439	0.32028	0.25782	0.35777	0.28310	0.35571
F0102	511	513	515	513	512	514
F0103	0.43421	0.41840	0.40318	0.32403	0.36101	0.39567
F0103	511	513	514	512	511	513
F0104	0.23121	0.21829	0.21878	0.43418	0.37711	0.29513
F0104	513	514	517	515	514	516
F0105	0.33633	0.34220	0.30412	0.44559	0.44112	0.32140
F0105	513	514	517	515	514	516
F0106	0.42474	0.40948	0.38825	0.36032	0.37025	0.37848
F0106	514	515	518	516	515	517
F0107	0.54580	0.58222	0.52644	0.33926	0.47204	0.44044
F0107	513	514	517	515	514	516
F0201	0.36990	0.36321	0.30928	0.44457	0.37904	0.35207
F0201	513	514	517	515	514	516
F0202	0.29532	0.31000	0.26664	0.54138	0.36182	0.33894
F0202	512	513	516	514	513	515
F0203	0.48433	0.46592	0.46391	0.35553	0.42213	0.40316
F0203	513	514	517	515	514	516
F0204	0.39144	0.45130	0.42574	0.39677	0.40322	0.36702
F0204	509	510	513	512	510	512

The CORR Procedure

Pearson Correlation Coefficients						
Number of Observations						
	F0502	F0503	F0504	F0601	F0602	F0603
F0205	0.46588	0.41946	0.42879	0.29281	0.39454	0.37705
F0205	512	514	516	514	513	515
F0206	0.52263	0.53204	0.50506	0.28935	0.46472	0.43538
F0206	514	515	518	516	515	517
F0207	0.52412	0.54973	0.58385	0.27681	0.42760	0.41987
F0207	513	514	517	515	514	516
F0208	0.42651	0.43384	0.39997	0.26888	0.41649	0.40818
F0208	513	515	517	515	514	516
F0209	0.47196	0.49285	0.49821	0.41471	0.44585	0.50547
F0209	513	514	517	515	514	516
F0301	0.45650	0.43675	0.47865	0.39573	0.38049	0.43094
F0301	513	514	517	515	514	516
F0302	0.42307	0.41730	0.42851	0.28439	0.39947	0.36761
F0302	511	512	515	513	512	514
F0303	0.44899	0.46439	0.49872	0.23842	0.43444	0.37401
F0303	512	513	516	514	513	515
F0304	0.48692	0.48921	0.51562	0.31558	0.43118	0.41392
F0304	513	514	517	515	514	516
F0305	0.40505	0.41268	0.42975	0.35699	0.42236	0.41179
F0305	511	512	515	513	512	514
F0306	0.42384	0.45127	0.46275	0.36220	0.35131	0.39978
F0306	511	512	515	513	512	514
F0401	0.51780	0.53418	0.51461	0.27797	0.41448	0.43749
F0401	514	515	518	516	515	517
F0402	0.45725	0.47641	0.43989	0.30864	0.39402	0.40955
F0402	510	511	513	511	510	512
F0403	0.57837	0.59740	0.55549	0.28602	0.48615	0.47198
F0403	511	512	515	513	512	514
F0404	0.41554	0.40786	0.41060	0.47332	0.39595	0.43326
F0404	513	514	517	515	514	516
F0501	0.81941	0.74743	0.61986	0.36057	0.44899	0.49425
F0501	512	512	514	513	511	513
F0502	1.00000	0.82606	0.60245	0.32644	0.43664	0.47925
F0502	514	512	514	512	511	513
F0503	0.82606	1.00000	0.66787	0.35976	0.48931	0.48427
F0503	512	515	515	513	512	514
F0504	0.60245	0.66787	1.00000	0.28995	0.41398	0.49426
F0504	514	515	518	516	515	517
F0601	0.32644	0.35976	0.28995	1.00000	0.54991	0.45134
F0601	512	513	516	516	513	515
F0602	0.43664	0.48931	0.41398	0.54991	1.00000	0.52660
F0602	511	512	515	513	515	514
F0603	0.47925	0.48427	0.49426	0.45134	0.52660	1.00000
F0603	513	514	517	515	514	517