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DHS 118 Appendix A

Chapter DHS 118 APPENDIX A

	Level	Criterion	Type
1.		Trauma Care Systems	
(a)	III, IV	TCFs and their health care providers must be active and engaged partici-	2
		pants in the trauma care system and promote standardization, integration,	
		and PIPS throughout the region and state. TCFs must be involved in state	
		and regional trauma care system planning, development and operation and	
		actively participate in regional and statewide trauma care system meetings	
		and committees that provide oversight. The TPM, TMD or trauma registrar	
		must attend at least 50% of the TCF's RTAC meetings annually. The TPM,	
		TMD or trauma registrar may not represent more than three TCFs at any	
		one RTAC meeting.	
2.		scription of Trauma Care Facilities and Their Roles in a Trauma Care System	
(a)	III, IV	The TCF must have an integrated, concurrent trauma PIPS program.	1
(b)	III	The TCF must have surgical commitment. Surgical commitment may be	1
		demonstrated in a number of ways, including:	
		(1) Having a surgeon who is the full-time director of the trauma	
		program.	
		(2) Having surgeons who take an active role in all aspects of caring for	
		injured patients.	
		(3) Having surgical participation in the trauma PIPS program.	
		(4) Having surgeons who assume an advocacy role for injured patients.	
		(5) Having surgical leadership promoting the trauma program to the	
		community, hospital and other colleagues.	
(c)	III, IV	The TCF must be able to provide the necessary human and physical re-	2
		sources including the physical plant and equipment as well as policies and	
		procedures to properly administer acute care for all ages, consistent with	
		their level of classification.	
(d)	III, IV	To care for adult patients, the TCF must have emergency department poli-	2
		cies, procedures, protocols, or guidelines for:	
		(1) Sedation and analgesia.	
		(2) Medical imaging.	
		(3) Injury imaging.	
		(4) Dosing for intubation medications, code drugs and neurologic	
		drugs.	

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The TCF must have the following medications and equipment readily available for emergency care: (1) Airway control and ventilation. (2) Pulse oximetry. (3) Fand idal carbon dioxide determination. (4) Suction. (5) Electrocardiogram monitoring or defibrillation. (6) Fluid administration such as standard intravenous therapy or largebor administration devices and catheters. (7) Cricothyrotomy, thorascostomy, vascular access and chest decompression. (8) Gastric decompression. (9) Conventional radiology. (10) Two-way radio communication with ambulance crew or rescue. (11) Skeletal and cervical immobilization. (12) Thermal control for patients and resuscitation fluids. (13) Rapid fluid infusion. (13) Rapid fluid infusion. (14) Thermal control for patients and resuscitation fluids. (13) Rapid fluid infusion. (14) Thermal control for patients and resuscitation. The surgeon must be activated for all highest level activations regardless of impending transfer or other scenario. (17) Thermal control for patients are steady for the time for all highest level activations regardless of impending transfer or other scenario. The TCF must demonstrate, through documentation in the medical record, that a surgeon is present within 30 minutes at least 80% of the time for all highest level activations annually, surgeon response time may be tracked over three years. (g)		Level	Criterion	Type
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	Level	Criterion	Type
(j)	IV	The TCF must have collaborative treatment and transfer guidelines reflect-	2
		ing the TCF's capabilities. These treatment and transfer guidelines must be	
		developed and regularly reviewed with input from higher-level TCFs in the	
		region.	
(k)	IV	The TCF must have 24-hour emergency coverage by a physician or APP/mi-	2
		dlevel provider.	
(1)	IV	The TCF's emergency department must:	2
		(1) Be continuously available for resuscitation.	
		(2) Have continuous coverage by a registered nurse.	
		(3) Have continuous coverage by a physician or APP/midlevel	
		provider.	
		(4) Have a physician as its medical director.	
(m)	IV	Physicians licensed to practice medicine who treat trauma patients in the	2
		ED must be current in ATLS unless the physician is board-certified in emer-	
		gency medicine. APPs/midlevel providers who participate in the initial	
		evaluation of trauma patients must be current in ATLS. This may be ful-	
		filled by the Comprehensive Advanced Life Support program if the program	
		includes the mobile trauma module skills station and the provider is re-ver-	
		ified every four years. The Rural Trauma Team Development Course does	
		not fulfill this requirement.	
(n)	III, IV	A TMD and TPM knowledgeable and involved in trauma care must work to-	2
		gether with guidance from the trauma multidisciplinary peer review com-	
		mittee to identify events, develop corrective action plans and ensure meth-	
		ods of monitoring, reevaluating and benchmarking.	
(o)	III, IV	The trauma multidisciplinary peer review committee must:	2
		(1) Meet at least quarterly to ensure cases are being reviewed in a	
		timely fashion.	
		(2) Review systemic and care provider issues and propose improve-	
		ments to the care of the injured patient.	
		(3) Include the TPM, TMD and other key staff and departments in-	
		volved with care of the trauma patient as members of the	
		committee.	
		(4) Have representation from general surgery, including all general	
		surgeons taking trauma call.	
		(5) Have liaisons from emergency medicine, orthopedics, anesthesiol-	
		ogy, critical care and the ICU.	
		(6) Have liaisons from all the specialty care services, such as neuro-	
		surgery and radiology, provided by the TCF.	
		(7) Require 50% attendance of its continuous members and document	
		attendance.	
		(8) Systematically review mortalities, significant complications and	
		process variances associated with unanticipated outcomes and de-	
		termine opportunities for improvement, as evidenced by docu-	
		mented meeting minutes.	
		(9) Review selected cases involving multiple specialties, mortality	
		data, adverse events and problem trends.	
		If a designated liaison is unable to attend, another representative from the	
		same service team may participate in their place. The TCF may determine	
		which members of the trauma multidisciplinary peer review committee are	
		continuous versus ad-hoc.	
(p)	III, IV	The TCF's trauma PIPS program must have audit filters to review and im-	2
(17)	111,11	prove pediatric and adult patient care.	-
	1	prove positione and addit patient early.	

	Level	Criterion	Тур
(q)	III, IV	If an adult TCF annually admits 100 or more injured patients younger than	2
		15 years old, the TCF must:	
		(1) Have trauma surgeons credentialed for pediatric trauma care by	
		the facility's credentialing body.	
		(2) Have a pediatric emergency department area.	
		(3) Have a pediatric intensive care area.	
		(4) Have appropriate resuscitation equipment.	
		(5) Have a pediatric-specific trauma PIPS program.	
r)	III, IV	If an adult TCF annually admits fewer than 100 injured patients younger	2
		than 15 years old, the TCF must review the care of injured children as part	
		of the trauma PIPS program. This review must include pediatric admissions	
		and transfers.	
3.		Prehospital Trauma Care	
<u>a)</u>	III, IV	The TCF must participate in the training of prehospital care providers, the	2
	111, 1 .	development and improvement of prehospital care protocols and the prehos-	_
		pital PIPS program. The TCF must review care and provide feedback to pre-	
		hospital care providers.	
		nospital data pro radio	
		The TCF can participate in the training of prehospital care providers in a va-	
		riety of ways including being involved in programs such as Prehospital	
		Trauma Life Support (PHTLS), grand rounds, trauma conferences, and case	
		reviews.	
b)	III, IV	The trauma health care team, including surgeons, emergency medicine	2
		physicians, medical directors for EMS agencies and basic and advanced	
		prehospital personnel must actively participate in the development of proto-	
		cols that guide prehospital care.	
c)	III	TCFs must evaluate over and under triage rates on a quarterly basis and per-	2
		form rigorous multidisciplinary performance improvement to attain a goal	
		of less than five percent under triage. If a TCF is not meeting this goal, the	
		TCF must explain the variance and demonstrate that they are doing perfor-	
		mance improvement work to reach this goal.	
d)	III, IV	A TCF must have a diversion protocol for trauma related occurrences,	2
		which includes a system to notify dispatch and EMS agencies.	
e)	III	The TMD must be involved in the development of the TCF's diversion pro-	2
<u>~</u>	***	tocol for trauma related occurrences.	
f)	III	A trauma surgeon must be involved in the decision each time the TCF goes	2
. `	111	on diversion for trauma related occurrences.	
g)	III	A TCF must not be on diversion for trauma related occurrences more than	2
h)	III, IV	five percent of the time.	2
h)	111, 1 V	When a TCF is required to divert for trauma related occurrences it must:	2
		(1) Notify other TCFs of divert or advisory status.	
		(2) Maintain a divert log.	
	III, IV	(3) Review all diverts and advisories to the trauma PIPS program. The TCF must routinely document, report and monitor their diversion	2
i)	111, 1 V	hours. This documentation must include the reason for initiating the diver-	2
		sion policy.	
		Inter-hospital Transfer	
a)	III, IV	When transferring a patient direct provider to provider contact is required.	2
b)	III, IV	The TCF's decision to transfer an injured patient to a specialty care facility	2
		in an acute situation must be based solely on the needs of the patient and not	
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on the requirements of the patient's specific provider network or the pa-

tient's ability to pay.

4

	Level	Criterion	Type
(c)	III, IV	When a patient is being transferred out, the TCF must have a contingency	2
		plan that includes:	
		(1) A credentialing process to allow the trauma surgeon or other physi-	
		cian to provide initial evaluation and stabilization of the patient.	
		(2) A requirement for direct contact with the accepting facility to ar-	
		range for expeditious transfer or ongoing monitoring support.	
		(3) A review process through the trauma PIPS program to monitor the	
(1)	111 137	efficacy of the transfer process.	2
(d)	III, IV	The TCF must review all trauma patients who are transferred out during the	2
		acute care phase and all trauma patients transferred to a higher level of care	
		within or outside of the TCF to review the rationale for transfer, appropri-	
		ateness of care, adverse outcomes and opportunities for improvement. This case review should include evaluation of transport activities and follow-up	
		from the TCF to which the patient was transferred.	
		from the TCF to which the patient was transferred.	
5.		Hospital Organization and the Trauma Program	
(a)	III, IV	The decision of a hospital to become a TCF requires the commitment of the	1
		institutional governing body and the medical staff, and this administrative	
		commitment must be documented. The TCF must have resolutions from	
		both the institutional governing body and the medical staff acknowledging	
		this commitment, and these resolutions must empower the trauma PIPS pro-	
		gram to address events that involve multiple disciplines and to evaluate all	
		aspects of trauma care.	
(b)	III, IV	The TCF's administrative support must be current at the time of the site	2
		visit and must be reaffirmed every three years. The administrative support	
		must be from the Board of Directors, Chief Executive Officer or Chief Ad-	
(a)	III, IV	ministrator and the medical staff or medical executive committee.	2
(c)	111, 1 V	The trauma program must involve multiple disciplines and transcend normal department hierarchies by having appropriate specialty representation	2
		from all phases of care.	
(d)	III, IV	The TMD must meet one of the following set of standards:	1
(4)	112, 1 ,	(1) Be a current board-certified general surgeon, neurosurgeon or or-	-
		thopedic surgeon and be actively involved in the care of trauma	
		patients.	
		(2) Be eligible for board certification in general surgery, neurosurgery	
		or orthopedic surgery and be actively involved in the care of	
		trauma patients.	
		(3) Be approved to take trauma call through the alternate pathway re-	
		quirements for general surgeons, neurosurgeons or orthopedic sur-	
		geons and be actively involved in the care of trauma patients.	
		(4) Be a current board certified emergency medicine physician and	
		staff the emergency department.	
		(5) Be eligible for board certification as an emergency medicine physi-	
		cian and staff the emergency department.	
		(6) Be approved to take trauma call through the alternate pathway for	
		emergency medicine physicians and staff the emergency	
(e)	III, IV	department. The TMD must be current in ATLS.	2
(f)	III, IV	The TMD must be current in ATLS. The TMD must have the authority to manage all aspects of trauma care.	2
(g)	III	The TMD may not direct more than two trauma centers.	2
(h)	III, IV	The TMD must actively participate in the trauma multidisciplinary PIPS re-	2
` /	1111, 1 V	The TVID must actively participate in the trauma muticuscipimary Fir 3 ie-	2

	Level	Criterion	Туре
(i)	III	The TMD, in collaboration with the TPM, must have the responsibility and	2
(1)		authority to report any deficiencies in trauma care and any trauma team	2
		members who do not meet specified trauma call criteria to the appropriate	
		person(s).	
(j)	III	The TMD must conduct, and have the authority to conduct, an annual as-	2
•		sessment of the trauma panel providers in the form of Ongoing Professional	
		Practice Evaluation and Focused Professional Practice Evaluation when in-	
		dicated by findings of the trauma PIPS process. The TMD must have the au-	
		thority to recommend changes for the trauma panel based on performance	
		review.	
(k)	III, IV	The TMD and TPM must be granted authority by the hospital governing	1
		body to lead the trauma PIPS program. This authority must be evidenced in	
		written job descriptions for both the TMD and TPM.	
(1)	III, IV	The criteria for a graded activation must be clearly defined by the TCF.	2
		TCFs must have the highest level of activation. The highest level activation	
		criteria must include the following criteria:	
		(1) Confirmed blood pressure less than 90 millimeters of mercury at	
		any time in adults and delineated by age range hypotension in	
		children.	
		(2) Gunshot wounds to the neck, chest, or abdomen or extremities	
		proximal to the elbow/knee.	
		(3) Glasgow coma scale score less than nine with mechanism attrib-	
		uted to trauma.	
		(4) Transfer patients from other hospitals receiving blood to maintain	
		vital signs. (5) Intubated patients transferred from the scene or patients who have	
		respiratory compromise or are in need of an emergency airway.	
		This includes intubated patients who are transferred from another	
		facility with ongoing respiratory compromise.	
		(6) Emergency medicine physician's discretion.	
(m)	III, IV	The trauma team, as defined by the TCF, must be fully assembled within 30	2
, ,	,	minutes of trauma activation.	
(n)	III, IV	The TCF's trauma PIPS program must evaluate on an ongoing basis the po-	2
		tential criteria for the various levels of trauma team activation to determine	
		which patients require the resources of the full trauma team. Variances in	
		trauma team activation must be documented and reviewed for reasons for	
		delay, opportunities for improvement and corrective actions.	
(o)	III required, IV	An emergency medicine physician may initially evaluate the limited-tier	2
	if the TCF pro-	trauma patient, but the TCF must have a clearly defined response expecta-	
	vides surgical	tion for the trauma surgical evaluation of those patients requiring	
	services for	admission.	
(-)	trauma patients		
(p)	III	The TCF may admit injured patients to individual surgeons, but the structure of the trauma program must allow the TMD to have oversight authority	2
		for the care of these patients. The TCF must have a process for the TMD and	
		TPM to review inpatient cases through the trauma PIPS program.	
(q)	III required, IV	For TCFs that admit injured patients to individual surgeons or nonsurgical	1
(4)	if the TCF pro-	services, the TCF must have a method to identify injured patients, monitor	1
	vides surgical	the provision of health care services, make periodic rounds and hold discus-	
	services for	sions with individual practitioners. These activities may be carried out by	
	trauma patients	the TPM in conjunction with the TMD at a frequency commensurate with	
	Patronto	The state of the s	

the volume of trauma admissions.

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	Level	Criterion	Type
(r)	III required, IV	A TCF must have written guidelines for the care of non-surgically admitted	2
	if the TCF pro-	patients. TCFs that admit more than 10% of injured patients to non-surgical	
	vides surgical	services must review all non-surgical admissions through the trauma PIPS	
	services for	program. Care must be reviewed for appropriateness of admission, patient	
	trauma patients	care, complications and outcomes. If a trauma patient is admitted by an in-	
		ternal medicine physician for medical comorbidities or medical manage-	
(.)	111 137	ment, a surgical consultation is required.	
(s)	III, IV	The TPM must show evidence of educational preparation, relevant clinical	2
		experience in the care of injured patients and administrative ability. The	
		TCF may determine who meets these requirements. Evidence that a TPM	
		meets these requirements may include a copy of the trauma coordinator job description. The TPM may be a nurse, but does not have to be.	
		description. The TTM may be a naise, but does not have to be.	
6.		Clinical Functions: General Surgery	
(a)	III	The TCF must have continuous general surgery capability.	1
(b)	III required, IV	General surgeons must meet one of the following set of standards in order to	2
	if the TCF pro-	take trauma call:	
	vides general	(1) Be board certified by the American Board of Surgery.	
	surgical ser-	(2) Be eligible for board certification by the American Board of	
	vices for	Surgery according to current criteria.	
	trauma patients	(3) Meet the general surgery alternate pathway requirements in 6.(c);	
		or	
		(4) Have completed an Accreditation Council for Graduate Medical	
		Education or Canadian residency and be recognized by a major	
		professional organization.	
		Note: An example of recognition by a major professional organization is be-	
(.)	III	ing a fellow of the ACS.	
(c)	III required, IV	The alternate pathway requirements for general surgeons are:	2
	if the TCF pro-	(1) Completion of a residency training program in general surgery,	
	vides general surgical ser-	with the time period consistent with years of training in the United	
	vices for	States. The completion of a residency training program must be evidenced by a certified letter from the program director.	
	trauma patients	(2) Current certification as a provider or instructor of the ATLS	
	trauma patients	program.	
		(3) Completion of 36 hours of trauma continuing medical education	
		within the last three years.	
		(4) Attendance at educational meetings and at least 50% of all trauma	
		PIPS meetings in the past three years.	
		(5) Membership or attendance at local and regional or national meet-	
		ings during the past three years.	
		(6) Provision of a list of patients treated in the last three years with ac-	
		companying Injury Severity Score and outcome data.	
		(7) Completion of a performance improvement assessment by the	
		TMD demonstrating that the morbidity and mortality results for	
		patients treated by the surgeon compare favorably with compara-	
		ble patients treated by other members of the call panel.	
		(8) License to practice medicine and approval for full and unrestricted	
		surgical privileges by the facility's credentialing committee.	
(d)	III required, IV	Trauma surgeons in a TCF must have privileges in general surgery.	2
	if the TCF pro-		
	vides general		
	surgical ser-		
	vices for		
	trauma patients		

	Level	Criterion	Type
(e)	III required, IV	The attending surgeon must be present in the operating room for all opera-	2
	if the TCF pro-	tions and the TCF must document the presence of the attending surgeon.	
	vides general		
	surgical ser-		
	vices for		
	trauma patients		
(f)	III required, IV	All general surgeons on the trauma team must have successfully completed	2
	if the TCF pro-	the ATLS course at least once.	
	vides general		
	surgical ser-		
	vices for		
	trauma patients		
7.		Clinical Functions: Emergency Medicine	
(a)	III	The TCF's emergency department must have a designated emergency physi-	1
()		cian director supported by an appropriate number of additional physicians	
		to ensure immediate care for injured patients.	
(b)	III	When it is necessary for the physician to leave the emergency department	2
		for short periods to address in-house emergencies, these cases and their fre-	
		quency must be reviewed by the trauma PIPS program for timeliness of re-	
		sponse and appropriateness of care and to ensure that this practice does not	
		adversely affect the care of patients in the emergency department.	
(c)	III, IV	For TCFs with an emergency medicine residency training program, super-	2
		vision must be provided by in-house attending emergency physicians 24	
		hours per day.	
(d)	III, IV	Emergency medicine physicians must meet one of the following set of stan-	2
		dards in order to take trauma call:	
		(1) Be board certified in emergency medicine.	
		(2) Be eligible for board certification by the appropriate emergency	
		medicine board according to current criteria.	
		(3) Be board certified in a specialty other than emergency medicine	
		recognized by the American Board of Medical Specialties, the	
		American Osteopathic Association, or the Royal College of Physi-	
		cians and Surgeons of Canada.	
	I	(4) M. (4)	

(4) Meet the emergency medicine alternate pathway requirements; or
(5) Have completed an Accreditation Council for Graduate Medical Education or Canadian residency and be recognized by a major

Note: An example of recognition by a major professional organization is be-

professional organization.

ing a fellow of the ACS.

8

(c) III, IV The alternate pathway requirements for emergency medicine physicians are: (1) Completion of a residency training program in emergency medicine, with the time period consistent with years of training in the United States. The completion of a residency training program must be evidenced by a certified letter from the program director. (2) Current certification as a provider or instructor of the ATLS program. (3) Completion of 36 hours of trauma continuing medical education within the last three years. (4) Attendance at educational meetings and at least 50% of all trauma PIPS meetings in the past three years. (5) Membership or attendance at local and regional or national meetings during the past three years. (6) Provision of a list of patients treated in the last three years with accompanying Injury Severity Score and outcome data. (7) Completion of a performance improvement assessment by the TMD demonstrating that the morbidity and mortality results for patients treated by the emergency medicine physician compare favorably with comparable patients treated by other members of the call panel. (8) License to practice medicine and approval for full and unrestricted emergency medicine physician privileges by the facility's credentialing committee. (6) III, IV Emergency medicine physicians on the emergency department schedule must be regularly involved in the care of injured patients. (g) III, IV Emergency medicine physician liaison available to the TMD for trauma PIPS issues that occur in the emergency department. As part of the trauma PIPS issues that occur in the emergency department. As part of the trauma PIPS program. the designated emergency medicine physician liaison available to the TMD for trauma PIPS issues that occur in the emergency department. (i) III, IV Emergency medicine physician liaison available to the TMD for trauma PIPS program. the designated emergency medicine physician liaison available to the TMD for trauma PIPS program. the designated emergency medicine physician liaison		Level	Criterion	Type
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requirements must have successfully completed the ATLS course at least once.		,		=
once.				
8. Clinical Functions: Neurosurgery			1	
	8.		Clinical Functions: Neurosurgery	

(a) III if the TCF provides neurosurgery for trauma patients, IV if the TCF provides neurosurgery for trauma patients for trauma patients and patients for trauma patients. (2) A requirement for direct contact with the accepting facility to arrange for expeditious transfer or ongoing monitoring support. (3) A review process through the trauma PIPS program to monitor the efficacy of the plan and process.	2 -
surgery for trauma patients, IV if the TCF provides neurosurgery for trauma surgery for trauma patients, IV if the TCF provides neurosurgery for trauma case. The contingency plan must include: (1) A credentialing process to allow the trauma surgeon to provide initial evaluation and stabilization of a neuro-trauma patient. (2) A requirement for direct contact with the accepting facility to arrange for expeditious transfer or ongoing monitoring support. (3) A review process through the trauma PIPS program to monitor the	-
trauma patients, IV if the TCF provides neurosurgery for trauma (1) A credentialing process to allow the trauma surgeon to provide initial evaluation and stabilization of a neuro-trauma patient. (2) A requirement for direct contact with the accepting facility to arrange for expeditious transfer or ongoing monitoring support. (3) A review process through the trauma PIPS program to monitor the	-
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neurosurgery range for expeditious transfer or ongoing monitoring support. (3) A review process through the trauma PIPS program to monitor the	
for trauma (3) A review process through the trauma PIPS program to monitor the	
patients efficacy of the plan and process.	e
The TCF, in conjunction with a higher level classification TCF, may define	e
the non-survivable injury patient who can be kept at the facility and trans-	
mitted to palliative care.	
(b) III if the TCF If one neurosurgeon covers more than one TCF, each TCF must have a pub	- 2
provides neuro- lished back-up schedule. The back-up schedule may include calling a back	
surgery for up neurosurgeon, guidelines for transfer or both. The trauma PIPS program	n
trauma pa- must demonstrate that appropriate and timely care is provided when the	
tients, IV if the back-up schedule must be used.	
TCF provides	
neurosurgery	
for trauma	
patients	
(c) III, IV The TCF must have a written policy or guideline approved by the TMD that	t 2
defines which types of patients require a response by neurosurgery and	
which type of neurosurgical injuries may remain at the TCF and which	
should be transferred.	_
(d) III, IV If a TCF does not have neurosurgical coverage, all patients requiring ICP	2
monitoring and patients with significant traumatic brain injuries should be	;
transferred to a higher level TCF. If the TCF does not transfer the patient	
with a traumatic brain injury, the scope of practice and care of the patient	
must be outlined in a written guideline or policy.	1
(e) III, IV For all neurosurgical cases, whether patients are admitted or transferred,	1
care must be timely and appropriate. (f) III, IV If a TCF provides neurosurgical services, neurosurgery must be part of the	2 1
(f) III, IV If a TCF provides neurosurgical services, neurosurgery must be part of the trauma PIPS program.	7 1
(g) III if the TCF For neurosurgical cases, the trauma PIPS program must:	1
provides neuro- (1) Monitor all patients admitted or transferred.	
surgery for (2) Review all cases requiring backup to be called in or the patient to	
trauma pa- be diverted or transferred because of the unavailability of the neu	
tients, IV if the rosurgeon on call.	
TCF provides (3) Monitor the 30 minute response time for the neurosurgeon once	
neurosurgery consulted.	
for trauma	
patients	

	Level	Criterion	Type
(h)	III if the TCF	Neurosurgeons must meet one of the following set of standards in order to	2
	provides neuro-	take trauma call:	
	surgery for	(1) Be board certified by an appropriate neurosurgical board.	
	trauma pa-	(2) Be eligible for board certification by an appropriate neurosurgical	
	tients, IV if the	board.	
	TCF provides	(3) Meet the neurosurgery alternate pathway requirements; or	
	neurosurgery	(4) Have completed an Accreditation Council for Graduate Medical	
	for trauma	Education or Canadian residency and be recognized by a major	
	patients	professional organization.	
		Note: An example of recognition by a major professional organization is be-	
		ing a fellow of the ACS.	
(i)	III if the TCF	The alternate pathway requirements for neurosurgeons are:	2
	provides neuro-	(1) Completion of a residency training program in neurosurgery, with	
	surgery for	the time period consistent with years of training in the United	
	trauma pa-	States. The completion of a residency training program must be	
	tients, IV if the	evidenced by a certified letter from the program director.	
	TCF provides	(2) Current certification as a provider or instructor of the ATLS	
	neurosurgery	program.	
	for trauma	(3) Completion of 36 hours of trauma continuing medical education	
	patients	within the last three years.	
		(4) Attendance at educational meetings and at least 50% of all trauma	
		PIPS meetings in the past three years.	
		(5) Membership or attendance at local and regional or national meet-	
		ings during the past three years.	
		(6) Provision of a list of patients treated in the last three years with ac-	
		companying Injury Severity Score and outcome data.	
		(7) Completion of a performance improvement assessment by the	
		TMD demonstrating that the morbidity and mortality results for	
		patients treated by the surgeon compare favorably with compara-	
		ble patients treated by other members of the call panel.	
		(8) License to practice medicine and approval for full and unrestricted	
		surgical privileges by the facility's credentialing committee.	
9.	III	Clinical Functions: Orthopedic Surgery	1
(a)		The TCF must have orthopedic surgery capability.	1
(b)	III required, IV	An operating room must be adequately staffed, with at least an operating	1
	if the TCF pro-	room nurse and operating room technician, and available within 30 minutes	
	vides orthope-	of operating room team request for emergency operations on musculoskele-	
	dic surgery for	tal injuries.	
(a)	trauma patients	The TCF must have an orthopedic surgeon who is identified as the liaison to	1
(c)	III required, IV	the trauma program.	1
	if the TCF provides orthope-	ine trauma program.	
	dic surgery for		
(d)	trauma patients	TCFs must have an orthopedic surgeon on call and promptly available 24	2
(u)	111	hours a day.	<i>L</i>
(e)	III required, IV	A TCF must include orthopedic surgery as part of the trauma PIPS	1
	if the TCF pro-		1
	vides orthope-	program.	
	dic surgery for		
	trauma patients		
	trauma patients		

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	Level	Criterion	Type
(f)	III required, IV	If the orthopedic surgeon is not dedicated to a single facility or is unavail-	2
	if the TCF pro-	able while on call, the TCF must have a published back-up schedule. The	
	vides orthope-	back-up schedule may include calling a back-up orthopedic surgeon or	
	dic surgery for	guidelines for transfer or both.	
	trauma patients		
		For Level IV TCFs that provide orthopedic surgery for trauma patients, an	
		orthopedic surgeon is not required to be on call and promptly available 24	
		hours a day. However, when the Level IV TCF does have an orthopedic sur-	
()		geon on call, the TCF must have a published back-up schedule.	
(g)	III required, IV	As part of the trauma PIPS program, the TCF must review all major ortho-	2
	if the TCF pro-	pedic trauma cases for appropriateness of the decision to transfer or admit.	
	vides orthope-	The TCF must define the scope of practice and indicators for patients that	
	dic surgery for	will be admitted.	
(1-)	trauma patients	Outh and is suggested and the following set of standards in an	
(h)	III required, IV	Orthopedic surgeons must meet one of the following set of standards in order to take trauma call:	2
	if the TCF provides orthope-	(1) Be board certified in orthopedic surgery.	
	dic surgery for	(1) Be board certified in orthopedic surgery. (2) Be eligible for board certification by the appropriate orthopedic	
	trauma patients	specialty board according to current criteria.	
	trauma patients	(3) Meet the orthopedic surgery alternate pathway requirements; or	
		(4) Have completed an Accreditation Council for Graduate Medical	
		Education or Canadian residency and be recognized by a major	
		professional organization.	
		Note: An example of recognition by a major professional organization is be-	
		ing a fellow of the ACS.	
(i)	III required, IV	The alternate pathway requirements for orthopedic surgeons are:	2
	if the TCF pro-	(1) Completion of a residency training program in orthopedic surgery,	
	vides orthope-	with the time period consistent with years of training in the United	
	dic surgery for	States. The completion of a residency training program must be	
	trauma patients	evidenced by a certified letter from the program director.	
		(2) Current certification as a provider or instructor of the ATLS	
		program.	
		(3) Completion of 36 hours of trauma continuing medical education	
		within the last three years.	
		(4) Attendance at educational meetings and at least 50% of all trauma	
		PIPS meetings in the past three years.	
		(5) Membership or attendance at local and regional or national meet-	
		ings during the past three years.	
		(6) Provision of a list of patients treated in the last three years with ac-	
		companying Injury Severity Score and outcome data. (7) Completion of a performance improvement assessment by the	
		TMD demonstrating that the morbidity and mortality results for patients treated by the surgeon compare favorably with compara-	
		ble patients treated by other members of the call panel.	
		(8) License to practice medicine and approval for full and unrestricted	
		surgical privileges by the facility's credentialing committee.	
		surgion privileges by the facility's elementaring committee.	
10.		Pediatric Trauma Care	
	1	** *** **	

	Level	Criterion	Type
(a)	III, IV	A TCF that stabilizes pediatric trauma patients in the emergency depart-	2
		ment must have guidelines to assure appropriate and safe care of children.	
		A TCF's pediatric trauma guidelines must include:	
		(1) Child maltreatment assessment, treatment or transfer and report-	
		ing protocols including a list of indicators of possible physical	
		abuse.	
		(2) Imaging guidelines, including age and weight-based criteria based	
		on as low as reasonably achievable guidelines.	
		(3) A system to assure appropriate sizing and dosing of resuscitation	
		equipment and medications.	
		(4) Dosing guidelines for intubation, code and neurologic drugs.	
		(5) Guidelines for administration of sedation.	
(b)	III, IV	A TCF that stabilizes pediatric trauma patients in the emergency department	2
		must have the following medications and equipment:	
		(1) Mannitol or 3% saline.	
		(2) Intubation, code and neurologic medications.	
		(3) Catheter-over-the-needle device; 22 and 24 gauge.	
		(4) Pediatric intraosseous needles or device.	
		(5) Intravenous solutions including the following: normal saline and	
		dextrose 5% normal saline.	
		(6) Infant and child c-collars.	
		(7) Cuffed endotracheal tubes: 3.5, 4.5, 5.5, and 6.5 millimeters.	
		(8) Laryngoscope: Straight: 1, Straight: 2, and Curved: 2.	
		(9) Infant and child nasopharyngeal airways.	
		(10) Oropharyngeal airways, sizes 0, 1, 2, 3 and 4.	
		(11) Pediatric stylets for endotracheal tubes.	
		(12) Infant and child suction catheters.	
		(13) Bag-mask device, self-inflating: infant: 450 milliliters.	
		(14) Masks to fit bag-mask device adaptor for infants and children.	
		(15) Clear oxygen masks: partial non-breather infant and partial non-	
		breather child.	
		(16) Infant and child nasal cannulas.	
		(17) Nasogastric tubes: Infant: 8 French size and child: 10 French size.	
		(18) Laryngeal mask airway: sizes 1.5, 2, 2.5, and 3.	
		(19) Chest tubes: Infant: 10 or 12 French size and child: one in the 16-	
		24 French size range.	
11.	111	Collaborative Clinical Services	1
(a)	III	The TCF must have an ICU. An ICU, regardless of whether an area of the	1
		facility is actually so designated, is a department or area of a TCF that pro-	
		vides intensive treatment medicine, focuses on patients with severe and life-	
		threatening illness or injuries which require constant and close monitoring	
		and support and is staffed by highly trained doctors and nurses who special-	
(b)	III required IV	ize in caring for critically ill patients.	1
(b)	III required, IV	Anesthesiology services, including anesthesiologists or certified registered	1
	if the TCF pro-	nurse anesthetists, must be available within 30 minutes of notification and	
	vides anesthe-	request for emergency operations, for managing airway problems, and as	
	siology ser-	needed for patient care.	
	vices for		
	trauma patients		

	Level	Criterion	Type
(c)	III required, IV	A qualified and dedicated physician anesthesiologist or certified registered	1
	if the TCF pro-	nurse anesthetist or a certified anesthesia assistant must be designated as a	
	vides anesthe-	liaison to the trauma program.	
	siology ser-		
	vices for		
	trauma patients		
(d)	III required, IV	The anesthesia liaison must participate in the trauma PIPS program.	2
	if the TCF pro-		
	vides anesthe-		
	siology ser-		
	vices for		
	trauma patients		
(e)	III required, IV	The TCF must document the availability of anesthesia services and delays	2
	if the TCF pro-	in airway control or operations in the trauma PIPS program.	
	vides anesthe-		
	siology ser-		
	vices for		
	trauma patients		
(f)	III required, IV	When the anesthesiologist or designee is responding from outside the TCF,	1
	if the TCF pro-	during the time between notification of the anesthesia provider and their ar-	
	vides anesthe-	rival, a provider must be available for emergency airway management. The	
	siology ser-	presence of a provider skilled in emergency airway management must be	
	vices for	documented.	
	trauma patients		
(g)	III required, IV	An operating room must be adequately staffed, with at least an operating	1
	if the TCF pro-	room nurse and operating room technician, and available within 30 minutes	
	vides surgical	of operating room team request.	
	services for		
	trauma patients		
(h)	III required, IV	The TCF must monitor the timeliness of starting operations and the in-	2
	if the TCF pro-	stances when operating room personnel including anesthesia support ser-	
	vides surgical	vices, post anesthesia care unit personnel are not available for greater than	
	services for	30 minutes. The TCF must monitor and document through the trauma PIPS	
	trauma patients	program the response times of these personnel. The TCF must identify and	
		review operating room delays involving trauma patients or adverse out-	
(1)	***	comes for reasons for delay and opportunities for improvement.	
(i)	III required, IV	The TCF must have the ability to perform services involving rapid infusers,	1
	if the TCF pro-	thermal control equipment and resuscitation fluids, intraoperative radio-	
	vides surgical	logic capabilities and equipment for fracture fixation/stabilization.	
	services for		
(:)	trauma patients	If a TCE assocides associated to the total destroy.	1
(j)	III, IV	If a TCF provides neurosurgical services, the TCF must have the necessary	1
(12)	III required IV	equipment to perform a craniotomy. Post anesthesia services, including qualified nurses, must be available 24	1
(k)	III required, IV		1
	if the TCF pro-	hours per day to provide care for the patient if needed during the recovery	
	vides surgical	phase.	
	services for		
(km)	trauma patients	In the delivery of post anasthesis ages, providers must have the masses	1
(km)	III required, IV	In the delivery of post anesthesia care, providers must have the necessary	1
	if the TCF pro-	equipment to monitor and resuscitate patients, consistent with the process	
	vides surgical services for	of care designated by the facility.	
	trauma patients		

	Level	Criterion	Type
(1)	III, IV	The TCF's trauma PIPS program must address the need for pulse oximetry,	2
		end-tidal carbon dioxide detection, arterial pressure monitoring, patient re-	
		warming and intracranial pressure monitoring.	
(lm)	III, IV	A TCF must have policies designed to ensure that trauma patients who may	2
		require resuscitation and monitoring are accompanied by appropriately	
		trained providers during transportation to, and while in, the radiology	
		department.	
(m)	III, IV	Conventional radiology must be available 24 hours per day. The radiology	1
		technician does not need to be in-house 24 hours per day but must respond	
		within 30 minutes of notification.	
(mm)	III	CT must be available 24 hours per day. The CT technologist does not need	1
		to be in-house 24 hours per day but must respond within 30 minutes of	
		notification.	
(n)	III required, IV	If a CT technologist takes a call from outside the facility, the TCF's trauma	2
	if the TCF pro-	PIPS program must document the CT technologist's time of arrival at the	
	vides CT ser-	facility.	
	vices for		
	trauma patients		
(nm)	III, IV	For TCFs with MRI capabilities, the MRI technologist may respond from	2
		outside the hospital. The trauma PIPS program must document and review	
		arrival of the MRI technologist within one hour of being called.	
(o)	III	Qualified radiologists must be available within 30 minutes of notification,	1
		in person or by tele-radiology, to interpret radiographs.	
(om)	III	Radiological diagnostic information must be communicated in a timely	2
		manner in either written or electronic form.	
(p)	III	Critical radiology information deemed to immediately affect patient care	2
		must be verbally communicated to the trauma team in a timely manner.	
(pm)	III required, IV	The final radiology report must accurately reflect the chronology and con-	2
	if the TCF pro-	text of communications with the trauma team, including changes between	
	vides radiologi-	the preliminary and final interpretations. The TCF must have a written over-	
	cal services for	read process that defines how changes in interpretation are documented and	
	trauma patients	communicated.	
(q)	III required, IV	The TCF must monitor changes in interpretation between the preliminary	2
	if the TCF pro-	and final radiology reports, as well as missed injuries, through the trauma	
	vides radiologi-	PIPS program.	
	cal services for		
	trauma patients		
(qm)	III required, IV	A surgeon on the trauma call panel must be actively involved in and respon-	2
	if the TCF pro-	sible for setting policies and making administrative decisions related to	
	vides surgical	trauma ICU patients. This may be a TMD who is a surgeon.	
	and ICU ser-		
	vices for		
	trauma patients		
(r)	III	The TCF must have physician coverage of the ICU available within 30 min-	1
		utes and have a formal plan in place for emergency coverage. A TCF must	
		track physician response time as part of the trauma PIPS program.	
		Physician coverage of the ICU does not replace the primary surgeon but in-	
		stead ensures that the patient's immediate needs are met while the primary	
		surgeon is being contacted.	

	Level	Criterion	Type
(rm)	III	The TCF's trauma PIPS program must review all ICU trauma admissions	2
		and transfers of ICU patients to ensure that appropriate patients are being	
		selected to remain at the TCF versus being transferred to a higher level of	
		care. The TCF must have a written guideline that defines which types of	
		ICU patients they will admit and which they will transfer to a higher level of	
		care.	
(s)	III	In a TCF, the trauma surgeon must retain responsibility for and coordinate	1
` ′		all therapeutic decisions of trauma ICU patients. Many of the daily care re-	
		quirements can be collaboratively managed by a dedicated ICU team, but	
		the trauma surgeon must be kept informed and concur with major therapeu-	
		tic and management decisions made by the ICU team.	
(sm)	III, IV	The TCF's trauma PIPS program must document that timely and appropri-	2
(3333)	,	ate ICU care and coverage are being provided for trauma ICU patients. The	
		TCF must continuously monitor the timely response of credentialed	
		providers to the ICU as part of the trauma PIPS program. The TCF's trauma	
		PIPS program must include quality indicators for the ICU including review	
		of complications. Review of complications includes but is not limited to re-	
		view of orthopedic and neurosurgical complications if the TCF provides	
		these services.	
(t)	III	The TCF must have a designated ICU liaison to the trauma service. The liai-	2
(1)	111	son must be designated based on the service that provides the majority of	2
		the care in the ICU.	
(tm)	III	In the TCF, qualified critical care nurses must be available 24 hours per day	1
(tm)	111		1
		to provide care for trauma patients during the ICU phase. The TCF may de-	
		fine who is a qualified critical care nurse based on education and compe-	
()	TTT	tency standards.	
(u)	III	For trauma patients in the ICU, the TCF must have adequate numbers of li-	2
		censed registered nurses, licensed practical nurses and other personnel to	
()	****	provide nursing care to all trauma patients in the ICU.	
(um)	III	The TCF must have the necessary equipment for the ICU to monitor and re-	1
		suscitate patients. Each TCF shall determine the equipment necessary	
()	TTT TX 7	based on the types of patients admitted and treated.	
(v)	III, IV	If a TCF has neurosurgical coverage and admits neuro-trauma patients, in-	1
, ,		tracranial pressure monitoring equipment must be available.	
(vm)	III, IV	Trauma patients, as defined by the Wisconsin trauma registry inclusion cri-	2
		teria, must not be admitted or transferred by a primary care physician with-	
		out the knowledge and consent of the trauma service. The TCF's trauma	
		PIPS program must monitor adherence to this guideline.	
		Note: The Wisconsin trauma registry inclusion criteria are contained within	
		the Wisconsin Trauma Data Dictionary, which is published on the Depart-	
		ment's Trauma webpage:	
		https://www.dhs.wisconsin.gov/publications/p01117.pdf.	
(w)	III	The TCF must have a respiratory therapist in-house or on call 24 hours a	1
		day.	
(wm)	III, IV	The TCF must have laboratory services available 24 hours per day for the	1
		standard analysis of blood, urine and other body fluids, including micro-	
		sampling when appropriate.	
(x)	III, IV	The TCF's blood bank must be capable of blood typing and cross-matching.	1
(xm)	III	The TCF's blood bank must have an adequate supply of packed red blood	1
		cells and fresh frozen plasma available within 15 minutes.	
(y)	III, IV	TCFs must have a massive transfusion protocol that is developed collabora-	1
		tively with the trauma service and blood bank.	

	Level	Criterion	Type
(ym)	III	The TCF must have coagulation studies, blood gas analysis and microbiol-	1
		ogy studies available 24 hours per day.	
(z)	III, IV	APPs who participate in the initial evaluation of trauma patients must be	2
		current in ATLS, except if the APP is accepting a trauma patient as a direct	
		admission. For Level IV TCFs, this may be fulfilled by the Comprehensive	
		Advanced Life Support program if the program includes the mobile trauma	
		module skills station and the provider is re-verified every four years. The	
()	*** ***	Rural Trauma Team Development Course does not fulfill this requirement.	
(zm)	III, IV	A TCF must have appropriate orientation, credentialing processes and skill	2
		maintenance for APPs, as witnessed by an annual review by the TMD.	
12.		Rehabilitation	
(a)	III	Physical therapy services must be provided in the TCF.	1
(b)	III	Social services must be provided in the TCF.	2
10			
13.	TIT 137	Guidelines for the Operation of Burn Centers	
(a)	III, IV	A TCF must have written guidelines, including transfer plans, for the care of	2
		burn patients.	
14.		Trauma Registry	
(a)	III, IV	A TCF must collect and analyze trauma registry data and must submit this	2
, ,		data to the department per s. DHS 118.09 (3) (a) & (b).	
(b)	III, IV	The TCF must submit the required data elements, defined by the Wisconsin	2
		Trauma Data Dictionary to the Wisconsin trauma registry.	
		Note: The Wisconsin Trauma Data Dictionary is prepared, maintained and	
		updated by the Wisconsin Department of Health Services and is published	
		on the Department's Trauma webpage:	
		https://www.dhs.wisconsin.gov/publications/p01117.pdf	
(c)	III, IV	A TCF must use trauma registry data to support their trauma PIPS program.	2
(d)	III, IV	A TCF must use trauma registry data to identify injury prevention priorities	2
		that are appropriate for local implementation.	
(e)	III, IV	A TCF's trauma registry must be concurrent. At a minimum, the TCF must	2
		enter 80% of cases within 60 days of patient discharge.	
(f)	III	At least one staff trauma registrar at each TCF must either have previously	2
		attended the following two courses or attend the following two courses	
		within 12 months of being hired:	
		(1) The American Trauma Society's two-day, in person trauma reg-	
		istry course or equivalent provided by a state trauma program.	
		(2) The Association of the Advancement of Automotive Medicine's	
		Abbreviated Injury Scale and Injury Scoring: Uses and Techniques	
		course.	
		This requirement will take offeet on January 1, 2022	
		This requirement will take effect on January 1, 2022.	
		Note: More information, including registration information, regarding the	
		American Trauma Society's trauma registry course can be found on the	
		American Trauma Society's webpage:	
		https://www.amtrauma.org/page/TRC.	
		More information, including registration information, regarding the Associ-	
		ation of Advancement of Automotive Medicine's Abbreviated Injury Scale)	
		and Injury Scoring: Uses and Techniques course can be found on the Asso-	
		ciation of Advancement of Automotive Medicine's webpage:	
		https://www.aaam.org/abbreviated-injury-scale-ais/training-courses/.	

	Level	Criterion	Type
(g)	III, IV	The TCF must ensure that appropriate measures are in place to meet the	2
		confidentiality requirements of the trauma registry data. The TCF must pro-	
		tect against threats, hazards and unauthorized uses or disclosures of trauma	
		program data as required by the Health Insurance Portability and Account-	
		ability Act and other state and federal laws. Protocols to protect confiden-	
		tiality, including providing information only to staff members who have a	
		demonstrated need to know, must be integrated in the administration of the	
		TCF's trauma program.	
(h)	III, IV	The TCF must demonstrate that appropriate staff resources are dedicated to	2
		the trauma registry.	
(i)	III, IV	The TCF must have a strategy for monitoring the validity of the data entered	2
		into the trauma registry.	
(j)	III, IV	The TCF must demonstrate that all trauma patients can be identified for	2
		review.	
(k)	III, IV	The TCF's trauma PIPS program must be supported by a reliable method of	2
		data collection that consistently obtains the information necessary to iden-	
		tify opportunities for improvement.	
15.	****	Performance Improvement and Patient Safety	
(a)	III, IV	The TCF must have a trauma PIPS program that includes a comprehensive	2
		written plan outlining the configuration and identifying both adequate per-	
		sonnel to implement that plan and an operational data management system.	
(b)	III, IV	The TCF's loop closure including problem resolution, outcome improve-	2
		ments and assurance of safety must be readily identifiable through methods	
		of monitoring, re-evaluation, benchmarking and documentation.	
(c)	III, IV	The TCF's trauma PIPS program must integrate with the facility quality and	2
		patient safety efforts and have a clearly defined reporting structure and	
/ 1\	***	method for the integration of feedback.	
(d)	III, IV	The TCF must use clinical practice guidelines, protocols and algorithms de-	2
		rived from evidence-based validated resources to help reduce unnecessary	
()	111 111	variation in the care they provide.	
(e)	III, IV	The TCF must document, in the trauma PIPS program written plan, all	2
		process and outcome measures. At least annually, the TCF must review and	
(C)	111 137	update all process and outcome measures.	
(f)	III, IV	The TCF must systematically review all trauma-related mortalities from	2
		point of injury to death and identify mortalities with opportunities for im-	
()	111 137	provement for the multidisciplinary trauma peer review committee.	2
(g)	III, IV	The TCF must have sufficient mechanisms available to identify events for	2
		review by the trauma PIPS program. Once an event is identified, the trauma	
(h)	III, IV	PIPS program must be able to verify and validate that event.	2
(h)	111, 1 V	The TCF must have a process to address trauma program operational events	Z
		including system process related events and, when appropriate, the analysis	
		and proposed corrective action. The TCF must have documentation that re-	
		flects the review of operational events, and when appropriate, the analysis	
(i)	III IV	and proposed corrective action.	2
(i)	III, IV	When the TCF identifies an opportunity for improvement, appropriate cor-	2
		rective actions to mitigate or prevent similar future adverse events must be	
		developed, implemented and clearly documented by the trauma PIPS	
(i)	III required, IV	program. When a general surgeon connect attend the trauma multidisciplinary peer re	2
(j)	if the TCF pro-	When a general surgeon cannot attend the trauma multidisciplinary peer review meeting, the TMD must ensure that the general surgeon receives and	<i>L</i>
	1		
	vides surgical services for	acknowledges receipt of critical information generated at the meeting.	
	trauma patients		

	Level	Criterion	Type
16.		Outreach and Education	
(a)	III, IV	The TCF must engage in public and professional education, including par-	2
		ticipation in prehospital education.	
(b)	III, IV	The TCF must provide trauma-related education for nurses involved in	2
		trauma care.	
17.		Prevention	
(a)	III, IV	The TCF must have an organized and effective approach to injury preven-	2
		tion and must prioritize these efforts based on local trauma registry and epi-	
		demiologic data.	
(b)	III, IV	The TCF must have someone in a leadership position that has injury preven-	2
	,	tion as part of his or her job description.	
(c)	III, IV	Universal screening for alcohol use must be performed and documented for	2
	,	all injured patients over 12 years of age. This screening must be done on pa-	
		tients admitted or discharged from the emergency department, but not those	
		transferred to a higher level of care.	
10		D'actor Diagram and	
18.	TIT IX	Disaster Planning and Management	
(a)	III, IV	The TCF must meet the disaster-related requirements of the Joint Commis-	2
		sion or other accrediting bodies.	
(b)	III	A liaison from the trauma program must be a member of the TCF's disaster	2
		committee.	
(c)	III, IV	The TCF must participate in regional disaster management plans and	2
		exercises.	