### **Level IV Criteria Quick Guide**

This guide provides the criteria necessary to obtain a trauma care facility (TCF) level IV classification, as outlined in Wis. Admin. Code ch. DHS 118.

#### 1. Trauma Care Systems

Level	Reference	Description of Criteria	Type
IV	1(a)	TCFs and their health care providers must be active and engaged participants 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

#### 2. Description of Trauma Care Facilities and Their Role in a Trauma Care System

Level	Reference	Description of Criteria	Туре
IV	2(a)	The TCF must have an integrated, concurrent trauma PIPS program.	1
IV	2(c)	The TCF must be able to provide the necessary human and physical resources 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	2
IV	2(d)	To care for adult patients, the TCF must have emergency department policies, 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.	2
IV	2(e)	The TCF must have the following medications and equipment readily available for emergency care:  (1) Airway control and ventilation. (2) Pulse oximetry. (3) End tidal carbon dioxide determination. (4) Suction. (5) Electrocardiogram monitoring or defibrillation. (6) Fluid administration such as standard intravenous therapy or large-bor 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.	2
IV	2(g)	It is expected that a physician, if available or APP/midlevel provider will be in the emergency department on patient arrival with adequate notification from the field. The maximum acceptable response time for a physician or	1

Level	Reference	Description of Criteria	Type
		APP/midlevel provider, with notification from the field and tracked from	
		patient arrival, is 30 minutes for the highest level activation. The TCF must	
		demonstrate, through documentation in the medical record, that a	
		physician or APP/midlevel provider is present within 30 minutes at least	
		80% of the time for all highest level activations. All activations and	
		response times must be reviewed in the trauma PIPS program. For TCFs	
		with less than six highest level activations annually, physician and	
		APP/midlevel provider response time may be tracked over three years.	
IV	2(i)	The TCF must have transfer plans that include a plan for expeditious	2
		critical care transport, follow-up and performance monitoring.	
IV	2(j)	The TCF must have collaborative treatment and transfer guidelines	2
		reflecting the TCF's capabilities. These treatment and transfer guidelines	
		must be developed and regularly reviewed with input from higher-level	
		TCFs in the region.	
IV	2(k)	The TCF must have 24-hour emergency coverage by a physician or	2
-•	_(,	APP/midlevel provider.	_
IV	2(I)	The TCF's emergency department must:	2
14	2(1)	(1) Be continuously available for resuscitation.	_
		(2) Have continuous coverage by a registered nurse.	
		(3) Have continuous coverage by a registered harse.	
		provider.	
		(4) Have a physician as its medical director.	
IV	2(m)	Physicians licensed to practice medicine who treat trauma patients in the	2
1 V	2(111)	ED must be current in ATLS unless the physician is board-certified in	_
		emergency medicine. APPs/midlevel providers who participate in the initial	
		evaluation of trauma patients must be current in ATLS. 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.	
IV	2(n)	A TMD and TPM knowledgeable and involved in trauma care must work	2
17	2(n)		
		together with guidance from the trauma multidisciplinary peer review	
		committee to identify events, develop corrective action plans and ensure	
T\ /	2(a)	methods of monitoring, reevaluating and benchmarking.	2
IV	2(o)	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	
		improvements to the care of the injured patient.	
		(3) Include the TPM, TMD and other key staff and departments	
		involved 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,	
		anesthesiology, critical care and the ICU.	
		(6) Have liaisons from all the specialty care services, such as	
		neurosurgery 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	

Level	Reference	Description of Criteria	Type
		determine opportunities for improvement, as evidenced by	
		documented 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.	
IV	2(p)	The TCF's trauma PIPS program must have audit filters to review and	2
		improve pediatric and adult patient care.	
IV	2(q)	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.	
IV	2(r)	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

Level	Reference	Description of Criteria	Type
IV	3(a)	The TCF must participate in the training of prehospital care providers, the development and improvement of prehospital care protocols and the prehospital PIPS program. The TCF must review care and provide feedback to prehospital care providers. The TCF can participate in the training of prehospital care providers in a variety of ways including being involved in programs such as Prehospital Trauma Life Support (PHTLS), grand rounds, trauma conferences, and case reviews.	2
IV	3(b)	The trauma health care team, including surgeons, emergency medicine physicians, medical directors for EMS agencies and basic and advanced prehospital personnel must actively participate in the development of protocols that guide prehospital care.	2
IV	3(d)	A TCF must have a diversion protocol for trauma related occurrences, which includes a system to notify dispatch and EMS agencies	2
IV	3(h)	When a TCF is required to divert for trauma related occurrences it must: (1) Notify other TCFs of divert or advisory status. (2) Maintain a divert log. (3) Review all diverts and advisories to the trauma PIPS program.	2
IV	3(i)	The TCF must routinely document, report and monitor their diversion hours. This documentation must include the reason for initiating the diversion policy.	2

## 4. Inter-Hospital Transfer

Level	Reference	Description of Criteria	Type
IV	4(a)	When transferring a patient direct provider to provider contact is required.	2

Level	Reference	Description of Criteria	Type
IV	4(b)	The TCF's decision to transfer an injured patient to a specialty care facility in an acute situation must be based solely on the needs of the patient and not on the requirements of the patient's specific provider network or the patient's ability to pay.	2
IV	4(c)	When a patient is being transferred out, the TCF must have a contingency plan that includes:  (1) A credentialing process to allow the trauma surgeon or other physician to provide initial evaluation and stabilization of the 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 efficacy of the transfer process.	2
IV	4(d)	The TCF must review all trauma patients who are transferred out during the 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, appropriateness 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.	2

# 5. Hospital Organization and the Trauma Program

Level	Reference	Description of Criteria	Type
IV	5(a)	The decision of a hospital to become a TCF requires the commitment of the 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 program to address events that involve multiple disciplines and to evaluate all aspects of trauma care.	1
IV	5(b)	The TCF's administrative support must be current at the time of the site visit and must be reaffirmed every three years. The administrative support must be from the Board of Directors, Chief Executive Officer or Chief Administrator and the medical staff or medical executive committee.	2
IV	5(c)	The trauma program must involve multiple disciplines and transcend normal department hierarchies by having appropriate specialty representation from all phases of care.	2
IV	5(d)	The TMD must meet one of the following set of standards:  (1) Be a current board-certified general surgeon, neurosurgeon or orthopedic 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 requirements for general surgeons, neurosurgeons or orthopedic surgeons and be actively involved in the care of trauma patients.	1

Level	Reference	Description of Criteria	Type
		(4) Be a current board certified emergency medicine	
		physician and staff the emergency department.	
		(5) Be eligible for board certification as an emergency	
		medicine physician and staff the emergency department.	
		(6) Be approved to take trauma call through the alternate	
		pathway for emergency medicine physicians and staff the	
		emergency department.	
IV	5(e)	The TMD must be current in ATLS.	2
IV	5(f)	The TMD must have the authority to manage all aspects of trauma care.	2
IV	5(h)	The TMD must actively participate in the trauma multidisciplinary PIPS review committee.	2
IV	5(k)	The TMD and TPM must be granted authority by the hospital	1
		governing body to lead the trauma PIPS program. This authority	_
		must be evidenced in written job descriptions for both the TMD	
		and TPM.	
IV	5(I)	The criteria for a graded activation must be clearly defined by the	2
		TCF. 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 attributed 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.	
IV	5(m)	The trauma team, as defined by the TCF, must be fully assembled	2
	>	within 30 minutes of trauma activation.	
IV	5(n)	The TCF's trauma PIPS program must evaluate on an ongoing	2
		basis the potential 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	
T\ /	F(a)	improvement and corrective actions.	2
IV	5(s)	The TPM must show evidence of educational preparation, relevant	2
		clinical 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	
T\/ if TCC	F(a)	may be a nurse, but does not have to be.	2
IV, if TCF	5(o)	An emergency medicine physician may initially evaluate the	~
provides surgical		limited-tier trauma patient, but the TCF must have a clearly defined response expectation for the trauma surgical evaluation of	

Level	Reference	Description of Criteria	Type
trauma patients			
IV, if TCF provides surgical services for trauma patients	5(q)	For TCFs that admit injured patients to individual surgeons or nonsurgical services, the TCF must have a method to identify injured patients, monitor the provision of health care services, make periodic rounds and hold discussions with individual practitioners. These activities may be carried out by the TPM in conjunction with the TMD at a frequency commensurate with the volume of trauma admissions.	1
IV, if TCF provides surgical services for trauma patients	5(r)	A TCF must have written guidelines for the care of non-surgically admitted patients. TCFs that admit more than 10% of injured patients to non-surgical services must review all non-surgical admissions through the trauma PIPS program. Care must be reviewed for appropriateness of admission, patient care, complications and outcomes. If a trauma patient is admitted by an internal medicine physician for medical comorbidities or medical management, a surgical consultation is required.	2

# 6. Clinical Functions: General Surgery

Level	Reference	Description of Criteria	Туре
IV, if the TCF provides general surgical services for trauma patients	6(b)	General surgeons must meet one of the following set of standards in order to take trauma call:  (1) Be board certified by the American Board of Surgery. (2) Be eligible for board certification by the American Board of Surgery according to current criteria. (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 being a fellow of the ACS.	2
IV, if the TCF provides general surgical services for trauma patients	6(c)	The alternate pathway requirements for general surgeons are:  (1) Completion of a residency training program in general surgery, 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	2

Level	Reference	Description of Criteria	Туре
		mortality results for patients treated by the surgeon compare favorably with comparable 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.	
IV, if the TCF provides general surgical services for trauma patients	6(d)	Trauma surgeons in a TCF must have privileges in general surgery.	2
IV, if the TCF provides general surgical services for trauma patients	6(e)	The attending surgeon must be present in the operating room for all operations and the TCF must document the presence of the attending surgeon.	2
IV, if the TCF provides general surgical services for trauma patients	6(f)	All general surgeons on the trauma team must have successfully completed the ATLS course at least once.	2

# 7. Clinical Functions: Emergency Medicine

Level	Reference	Description of Criteria	Type
IV	7(c)	For TCFs with an emergency medicine residency training program, supervision must be provided by in-house attending emergency physicians 24 hours per day	2
IV	7(d)	Emergency medicine physicians must meet one of the following set of standards 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 Physicians and Surgeons of Canada.  (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 professional organization. Note: An example of recognition by a major professional organization is being a fellow of the ACS.	2
IV	7(e)	The alternate pathway requirements for emergency medicine physicians are:	2

Level	Reference	Description of Criteria	Type
		<ol> <li>(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.</li> <li>(2) Current certification as a provider or instructor of the ATLS program.</li> <li>(3) Completion of 36 hours of trauma continuing medical education within the last three years.</li> <li>(4) Attendance at educational meetings and at least 50% of all trauma PIPS meetings in the past three years.</li> <li>(5) Membership or attendance at local and regional or national meetings during the past three years.</li> <li>(6) Provision of a list of patients treated in the last three years with accompanying Injury Severity Score and outcome data.</li> <li>(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.</li> <li>(8) License to practice medicine and approval for full and unrestricted emergency medicine privileges by the facility's</li> </ol>	
IV	7(f)	credentialing committee.  Emergency medicine physicians on the emergency department schedule must be regularly involved in the care of injured patients.	2
IV	7(g)	A representative from the emergency department must participate in the prehospital PIPS program.	2
IV	7(h)	If the TMD is not an emergency medicine physician, there must be a designated emergency medicine physician liaison available to the TMD for trauma PIPS issues that occur in the emergency department. As part of the trauma PIPS program, the designated emergency medicine physician liaison must be responsible for all emergency department audits, critiques and mortality review of patients treated in the emergency department.	2
IV	7(j)	Physicians who are licensed to practice medicine who treat trauma patients in the emergency department must be current in ATLS unless the physician is board-certified in emergency medicine. APPs/midlevel providers who participate in the initial evaluation of trauma patients must be current in ATLS. 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.	2
IV	7(k)	All board-certified emergency medicine physicians or those eligible for certification by an appropriate emergency medicine board according to current requirements must have successfully completed the ATLS course at least once.	2

## 8. Clinical Functions: Neurosurgery

	Level	Reference	Description of Criteria	Type
IV	•	8(c)	The TCF must have a written policy or guideline approved by the	2
			TMD that defines which types of patients require a response by	

Level	Reference	Description of Criteria	Type
		neurosurgery and which type of neurosurgical injuries may remain	
IV	8(d)	at the TCF and which should be transferred.  If a TCF does not have neurosurgical coverage, all patients	2
IV	o(u)	requiring ICP 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.	2
IV	8(e)	For all neurosurgical cases, whether patients are admitted or transferred, care must be timely and appropriate.	1
IV	8(f)	If a TCF provides neurosurgical services, neurosurgery must be part of the trauma PIPS program.	1
IV, if the TCF provide neurosurgery for trauma patients	8(a)	The TCF must have a formal and published contingency plan for times in which a neurosurgeon is encumbered upon the arrival of a neuro-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 efficacy of the plan and process. The TCF, in conjunction with a higher level classification TCF, may define the non-survivable injury patient who can be kept at the facility and transmitted to palliative care.	2
IV, if the TCF provide neurosurgery for trauma patients	8(b)	If one neurosurgeon covers more than one TCF, each TCF must have a published back-up schedule. The back-up schedule may include calling a back-up neurosurgeon, guidelines for transfer or both. The trauma PIPS program must demonstrate that appropriate and timely care is provided when the back-up schedule must be used.	2
IV, if the TCF provide neurosurgery for trauma patients	8(g)	For neurosurgical cases, the trauma PIPS program must:  (1) Monitor all patients admitted or transferred.  (2) Review all cases requiring backup to be called in or the patient to be diverted or transferred because of the unavailability of the neurosurgeon on call.  (3) Monitor the 30 minute response time for the neurosurgeon once consulted.	1
IV, if the TCF provide neurosurgery for trauma patients	8(h)	Neurosurgeons must meet one of the following set of standards in order to take trauma call:  (1) Be board certified by an appropriate neurosurgical board.  (2) Be eligible for board certification by an appropriate neurosurgical board.  (3) Meet the neurosurgery 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 being a fellow of the ACS.	2

Level	Reference	Description of Criteria	Type
IV, if the	8(i)	The alternate pathway requirements for neurosurgeons are:	2
TCF provide		(1) Completion of a residency training program in	
neurosurgery		neurosurgery, with the time period consistent with years of	
for trauma		training in the United States. The completion of a residency	
patients		training program must be evidenced by a certified letter	
		from the program director.	
		<ul><li>(2) Current certification as a provider or instructor of the ATLS program.</li></ul>	
		(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 surgeon compare	
		favorably with comparable 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. Clinical Functions: Orthopedics

Level	Reference	Description of Criteria	Type
IV, if the TCF provides orthopedic surgery for trauma patients	9(b)	An operating room must be adequately staffed, with at least an operating room nurse and operating room technician, and available within 30 minutes of operating room team request for emergency operations on musculoskeletal injuries.	1
IV, if the TCF provides orthopedic surgery for trauma patients	9(c)	The TCF must have an orthopedic surgeon who is identified as the liaison to the trauma program.	1
IV, if the TCF provides orthopedic surgery for trauma patients	9(e)	A TCF must include orthopedic surgery as part of the trauma PIPS program.	1
IV, if the TCF provides orthopedic surgery for	9(f)	If the orthopedic surgeon is not dedicated to a single facility or is unavailable while on call, the TCF must have a published back-up schedule. The back-up schedule may include calling a back-up orthopedic surgeon or guidelines for transfer or both.	2

Level	Reference	Description of Criteria	Type
trauma patients			
IV, if the TCF provides orthopedic surgery for trauma patients	9(g)	As part of the trauma PIPS program, the TCF must review all major orthopedic trauma cases for appropriateness of the decision to transfer or admit. The TCF must define the scope of practice and indicators for patients that will be admitted.	2
IV, if the TCF provides orthopedic surgery for trauma patients	9(h)	Orthopedic surgeons must meet one of the following set of standards in order to take trauma call:  (1) Be board certified in orthopedic surgery.  (2) Be eligible for board certification by the appropriate orthopedic specialty board according to current criteria.  (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 being a fellow of the ACS.	2
IV, if the TCF provides orthopedic surgery for trauma patients	9(i)	The alternate pathway requirements for orthopedic surgeons are:  (1) Completion of a residency training program in orthopedic surgery, 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 surgeon compare favorably with comparable 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.	2

#### 10. Pediatric Trauma Care

Level	Reference	Description of Criteria	Type
IV	10(a)	A TCF that stabilizes pediatric trauma patients in the emergency	2
		department must have guidelines to assure appropriate and safe care of	
		children. A TCF's pediatric trauma guidelines must include:	

Level	Reference	Description of Criteria	Type
		<ul> <li>(1) Child maltreatment assessment, treatment or transfer and reporting protocols including a list of indicators of possible physical abuse.</li> <li>(2) Imaging guidelines, including age and weight-based criteria based on as low as reasonably achievable guidelines.</li> <li>(3) A system to assure appropriate sizing and dosing of resuscitation equipment and medications.</li> <li>(4) Dosing guidelines for intubation, code and neurologic drugs.</li> <li>(5) Guidelines for administration of sedation.</li> </ul>	
IV	10(b)	A TCF that stabilizes pediatric trauma patients in the emergency department 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 nonbreather 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.	2

#### 11. Collaborative Clinical Services

Level	Reference	Description of Criteria	Type
IV	11(j)	If a TCF provides neurosurgical services, the TCF must have the necessary equipment to perform a craniotomy.	1
IV	11(1)	The TCF's trauma PIPS program must address the need for pulse oximetry, end-tidal carbon dioxide detection, arterial pressure monitoring, patient rewarming and intracranial pressure monitoring.	2
IV	11(lm)	A TCF must have policies designed to ensure that trauma patients who may require resuscitation and monitoring are accompanied by appropriately trained providers during transportation to, and while in, the radiology department.	2
IV	11(m)	Conventional radiology must be available 24 hours per day. The radiology technician does not need to be in-house 24 hours per day but must respond within 30 minutes of notification.	1

Level	Reference	Description of Criteria	Type
IV	11(nm)	For TCFs with MRI capabilities, the MRI technologist may respond from outside the hospital. The trauma PIPS program must document and review arrival of the MRI technologist within one	2
IV	11(sm)	hour of being called.  The TCF's trauma PIPS program must document that timely and appropriate 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 review of orthopedic and neurosurgical complications if the TCF provides these services.	2
IV	11(v)	If a TCF has neurosurgical coverage and admits neuro-trauma patients, intracranial pressure monitoring equipment must be available.	1
IV	11(vm)	Trauma patients, as defined by the Wisconsin trauma registry inclusion criteria, must not be admitted or transferred by a primary care physician without 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 Department's Trauma webpage: https://www.dhs.wisconsin.gov/publications/p01117.pdf.	2
IV	11(wm)	The TCF must have laboratory services available 24 hours per day for the standard analysis of blood, urine and other body fluids, including micro-sampling when appropriate.	1
IV	11(x)	The TCF's blood bank must be capable of blood typing and cross-matching.	1
IV	11(y)	TCFs must have a massive transfusion protocol that is developed collaboratively with the trauma service and blood bank.	1
IV	11(z)	APPs who participate in the initial evaluation of trauma patients must be 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.	2
IV	11(zm)	A TCF must have appropriate orientation, credentialing processes and skill maintenance for APPs, as witnessed by an annual review by the TMD.	2
IV, if the TCF provides anesthesiology services for trauma patients	11(b)	Anesthesiology services, including anesthesiologists or certified registered nurse anesthetists, must be available within 30 minutes of notification and request for emergency operations, for managing airway problems, and as needed for patient care.	1
IV, if the TCF provides anesthesiology services for	11(c)	A qualified and dedicated physician anesthesiologist or certified registered nurse anesthetist or a certified anesthesia assistant must be designated as a liaison to the trauma program.	1

Level	Reference	Description of Criteria	Туре
trauma patients			
IV, if the TCF provides anesthesiology services for trauma patients	11(d)	The anesthesia liaison must participate in the trauma PIPS program.	2
IV, if the TCF provides anesthesiology services for trauma patients	11(e)	The TCF must document the availability of anesthesia services and delays in airway control or operations in the trauma PIPS program.	2
IV, if the TCF provides anesthesiology services for trauma patients	11(f)	When the anesthesiologist or designee is responding from outside the TCF, during the time between notification of the anesthesia provider and their arrival, a provider must be available for emergency airway management. The presence of a provider skilled in emergency airway management must be documented.	1
IV, if the TCF provides surgical services for trauma patients	11(g)	An operating room must be adequately staffed, with at least an operating room nurse and operating room technician, and available within 30 minutes of operating room team request.	1
IV, if the TCF provides surgical services for trauma patients	11(h)	The TCF must monitor the timeliness of starting operations and the instances when operating room personnel including anesthesia support services, post anesthesia care unit personnel are not available for greater than 30 minutes. The TCF must monitor and document through the trauma PIPS program the response times of these personnel. The TCF must identify and review operating room delays involving trauma patients or adverse outcomes for reasons for delay and opportunities for improvement.	2
IV, if the TCF provides surgical services for trauma patients	11(i)	The TCF must have the ability to perform services involving rapid infusers, thermal control equipment and resuscitation fluids, intraoperative radiologic capabilities and equipment for fracture fixation/stabilization.	1
IV, if the TCF provides surgical services for trauma patients	11(k)	Post anesthesia services, including qualified nurses, must be available 24 hours per day to provide care for the patient if needed during the recovery phase.	1
IV, if the TCF provides surgical services for trauma patients	11(km)	In the delivery of post anesthesia care, providers must have the necessary equipment to monitor and resuscitate patients, consistent with the process of care designated by the facility.	1

Level	Reference	Description of Criteria	Type
IV, if the TCF provides CT services for trauma patients	11(n)	If a CT technologist takes a call from outside the facility, the TCF's trauma PIPS program must document the CT technologist's time of arrival at the facility.	2
IV, if the TCF provides radiological services for trauma patients	11(pm)	The final radiology report must accurately reflect the chronology and context of communications with the trauma team, including changes between the preliminary and final interpretations. The TCF must have a written over-read process that defines how changes in interpretation are documented and communicated.	2
IV, if the TCF provides radiological services for trauma patients	11(q)	The TCF must monitor changes in interpretation between the preliminary and final radiology reports, as well as missed injuries, through the trauma PIPS program.	2
IV, if the TCF provides surgical and ICU services for trauma patients	11(qm)	A surgeon on the trauma call panel must be actively involved in and responsible for setting policies and making administrative decisions related to trauma ICU patients. This may be a TMD who is a surgeon.	2

### 12. No criteria for level IV.

## 13. Guidelines for the Operation of Burn Centers

Level	Reference	Description of Criteria	Type
IV	13(a)	A TCF must have written guidelines, including transfer plans, for the care	2
		of burn patients.	

## 14. Trauma Registry

Level	Reference	Description of Criteria	Type
IV	14(a)	A TCF must collect and analyze trauma registry data and must submit this data to the department per s. DHS 118.09 (3) (a) & (b).	2
IV	14(b)	The TCF must submit the required data elements, defined by the Wisconsin 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	2
IV	14(c)	A TCF must use trauma registry data to support their trauma PIPS program.	2
IV	14(d)	A TCF must use trauma registry data to identify injury prevention priorities that are appropriate for local implementation.	2
IV	14(e)	A TCF's trauma registry must be concurrent. At a minimum, the TCF must enter 80% of cases within 60 days of patient discharge.	2
IV	14(g)	The TCF must ensure that appropriate measures are in place to meet the confidentiality requirements of the trauma registry data. The TCF must protect against threats, hazards and unauthorized uses or disclosures of	2

Level	Reference	Description of Criteria	Type
		trauma program data as required by the Health Insurance Portability and Accountability Act and other state and federal laws. Protocols to protect confidentiality, 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.	
IV	14(h)	The TCF must demonstrate that appropriate staff resources are dedicated to the trauma registry.	2
IV	14(i)	The TCF must have a strategy for monitoring the validity of the data entered into the trauma registry.	2
IV	14(j)	The TCF must demonstrate that all trauma patients can be identified for review.	2
IV	14(k)	The TCF's trauma PIPS program must be supported by a reliable method of data collection that consistently obtains the information necessary to identify opportunities for improvement.	2

# 15. Performance Improvement and Patient Safety

Level	Reference	Description of Criteria	Type
IV	15(a)	The TCF must have a trauma PIPS program that includes a comprehensive written plan outlining the configuration and identifying both adequate personnel to implement that plan and an operational data management system.	2
IV	15(b)	The TCF's loop closure including problem resolution, outcome improvements and assurance of safety must be readily identifiable through methods of monitoring, re-evaluation, benchmarking and documentation.	2
IV	15(c)	The TCF's trauma PIPS program must integrate with the facility quality and patient safety efforts and have a clearly defined reporting structure and method for the integration of feedback.	2
IV	15(d)	The TCF must use clinical practice guidelines, protocols and algorithms derived from evidence-based validated resources to help reduce unnecessary variation in the care they provide.	2
IV	15(e)	The TCF must document, in the trauma PIPS program written plan, all process and outcome measures. At least annually, the TCF must review and update all process and outcome measures.	2
IV	15(f)	The TCF must systematically review all trauma-related mortalities from point of injury to death and identify mortalities with opportunities for improvement for the multidisciplinary trauma peer review committee.	2
IV	15(g)	The TCF must have sufficient mechanisms available to identify events for review by the trauma PIPS program. Once an event is identified, the trauma PIPS program must be able to verify and validate that event.	2
IV	15(h)	The TCF must have a process to address trauma program operational events including system process related events and, when appropriate, the analysis and proposed corrective action. The TCF must have documentation that reflects the review of operational events, and when appropriate, the analysis and proposed corrective action.	2
IV	15(i)	When the TCF identifies an opportunity for improvement, appropriate corrective actions to mitigate or prevent similar future	2

Level	Reference	Description of Criteria	Type
		adverse events must be developed, implemented and clearly documented by the trauma PIPS program.	
IV, if the TCF provides CT services for trauma patients	15(j)	When a general surgeon cannot attend the trauma multidisciplinary peer review meeting, the TMD must ensure that the general surgeon receives and acknowledges receipt of critical information generated at the meeting.	2

#### 16. Outreach and Education

Level	Reference	Description of Criteria	Type
IV	16(a)	The TCF must engage in public and professional education, including	2
	. ,	participation in prehospital education.	
IV	16(b)	The TCF must provide trauma-related education for nurses involved in	2
	. ,	trauma care.	

#### 17. Prevention

Level	Reference	Description of Criteria	Type
IV	17(a)	The TCF must have an organized and effective approach to injury prevention and must prioritize these efforts based on local trauma registry and epidemiologic data.	2
IV	17(b)	The TCF must have someone in a leadership position that has injury prevention as part of his or her job description.	2
IV	17(c)	Universal screening for alcohol use must be performed and documented for all injured patients over 12 years of age. This screening must be done on patients admitted or discharged from the emergency department, but not those transferred to a higher level of care.	2

### 18. Disaster Planning and Management

Level	Reference	Description of Criteria	Type
IV	18(a)	The TCF must meet the disaster-related requirements of the Joint	2
		Commission or other accrediting bodies.	
IV	18(c)	The TCF must participate in regional disaster management plans and	2
		exercises.	



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