Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
1	1-1	I	П	III	IV	1	Ш	7/1/2014	New	The individual trauma centers and their health care providers are essential system resources that must		TYPE II
										be active and engaged participants (CD 1-1).		
1	1-2	I	П	III	IV	1	Ш	7/1/2014	New	They must function in a way that pushes trauma center-based standardization, integration, and PIPS		TYPE II
										out to the region while engaging in inclusive trauma system planning and development (CD 1-2)		
1	1-3	1	11	111	IV	1	11	7/1/2014	New	Meaningful involvement in state and regional trauma system planning, development, and operation is		TYPE II
										essential for all designated trauma centers and participating acute care facilities within a region (CD 1- 3)		
2	2-1	I	II	Ш	IV	I	П	7/1/2014	New	This trauma center must have an integrated, concurrent performance improvement and patient safety		Type I
						1.		= /4 /224.4		(PIPS) program to ensure optimal care and continuous improvement in care (CD 2-1).		
2	2-2	1		111				7/1/2014		Surgical commitment is essential for a properly functioning trauma center (CD 2-2).		TYPE I
2	2-3	1	u	111	IV	1	11	7/1/2014	New	Trauma centers must be able to provide the necessary human and physical resources (physical plant and equipment) to properly administer acute care consistent with their level of verification (CD 2-3).		TYPE II
2	2-4	I				I		7/1/2014	New	A Level I trauma center must admit at least 1,200 trauma patients yearly or have 240 admissions with an Injury Severity Score of more than 15. (CD 2-4).		TYPE I
2	2-5	1		Ш		1		7/1/2014	Revised	Through the trauma PIPS program and hospital policy, the trauma director must have responsibility		TYPE II
-								,, _, _, _, _, .	nerisea	and authority for determining each general surgeon's ability to participate on the trauma panel based		
										on an annual review (CD 2-5).		
2	2-5	1				1		7/1/2014		A resident in postgraduate year 4 or 5 or an attending emergency physician who is part of the trauma		TYPE I
	-							, , -		team may be approved to begin resuscitation while awaiting the arrival of the attending surgeon but		
										cannot independently fulfill the responsibilities of, or substitute for, the attending surgeon (CD 2-6).		
2	2-6	1				1		7/1/2014	New	Qualified attending surgeons must participate in major therapeutic decisions, be present in the	*	TYPE I
										emergency department for major resuscitations, be present at operative procedures, and be actively		
										involved in the critical care of all seriously injured patients (CD 2-6).		
2	2-6	I	II			1	11	7/1/2014	New	A resident in postgraduate year 4 or 5 or an attending emergency physician who is part of the trauma	*	TYPE I
										team may be approved to begin resuscitation while awaiting the arrival of the attending surgeon but		
										cannot independently fulfill the responsibilities of, or substitute for, the attending surgeon (CD 2-6).		
2	2-7	1	11			1	11	7/1/2014		The presence of such a resident or attending emergency physician may allow the attending surgeon to		TYPE II
										take call from outside the hospital. In this case, local criteria and a PIPS program must be established to	0	
										define conditions requiring the attending surgeon's immediate hospital presence (CD 2-7).		
2	2-8	I	11			1	11	7/1/2014		For Level I and Level II trauma centers, it is expected that the surgeon will be in the emergency		TYPE I
										department on patient arrival, with adequate notification from the field. The maximum acceptable		
										response time is 15 minutes for the highest-level activation tracked from patient arrival. The minimum	1	
										criteria for full trauma team activation are provided in Table 2 in Chapter 5. The program must		
										demonstrate that the surgeon's presence is in compliance at least 80 percent of the time (CD 2-8).		
2	2-8							7/1/2014		For Level III trauma centers, it is expected that the surgeon will be in the emergency department on		TYPE I
										patient arrival, with adequate notification from the field. The maximum acceptable response time is 30		
										minutes for the highest level of activation, tracked from patient arrival. The PIPS program must		
										demonstrate that the surgeon's presence is in compliance at least 80 percent of the time (CD 2-8).		
2	2-8				IV	1		7/1/2014	New	For Level IV trauma centers, it is expected that the physician or midlevel provider will be in the		TYPE I
					1					emergency department on patient arrival, with adequate notification from the field. The maximum	1	
					1					acceptable response time is 30 minutes for the highest level of activation, tracked from patient arrival.		
										The PIPS program must demonstrate that the physician's presence is in compliance at least 80 percent of the time (CD 2-8).		
2	2-9	1	П	1	1	1	11	7/1/2014	New	The attending surgeon's immediate (within 15 minutes) arrival for patients with appropriate activation		TYPE I
					1					criteria must be monitored by the hospital's trauma PIPS program (CD 2-9).	1	
2	2-10	1	11			1	11	7/1/2014		The trauma surgeon on call must be dedicated to a single trauma center while on duty (CD 2-10).	1	TYPE II
2	2-11	1	11		1	1	11	7/1/2014		In addition, a published backup call schedule for trauma surgery must be available (CD 2-11).		TYPE II

Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
2	2-12			III				7/1/2014		A Level III trauma center must have continuous general surgical coverage (CD 2-12).		TYPE II
2	2-13			III	IV			7/1/2014		Well–defined transfer plans are essential (CD 2-13).		TYPE I
2	2-13				IV			7/1/2014	New	Collaborative treatment and transfer guidelines reflecting the Level IV facilities' capabilities must be		TYPE II
										developed and regularly reviewed, with input from higher-level trauma centers in the region (CD 2-		
										13).		
2	2-14				IV			7/1/2014		A Level IV facility must have 24-hour emergency coverage by a physician or midlevel provider (CD 2-		TYPE II
										14).		
2	2-15				IV			7/1/2014	New	The emergency department at Level IV centers must be continuously available for resuscitation with		TYPE II
										coverage by a registered nurse and physician or midlevel provider, and it must have a physician		
										director (CD 2-15).		
2					IV			7/1/2014	New	These providers must maintain current Advanced Trauma Life Support [®] certification as part of their		TYPE II
										competencies in trauma (CD 2-16).		
2	2-17		11	111	IV		11	7/1/2014	New	For Level I, II, III and IV trauma centers a trauma medical director and trauma program manager	*	TYPE II
								, , -	_	knowledgeable and involved in trauma care must work together with guidance from the trauma peer		
										review committee to identify events, develop corrective action plans, and ensure methods of		
										monitoring, reevaluation, and benchmarking. (CD 2-17).		
2	2-18	1	11	ш	IV	1		7/1/2014	New	Level I, II, III and IV trauma centers the multidisciplinary trauma peer review committee must meet		TYPE II
2	2 10	•				•		//1/2014	New	regularly, with required attendance of medical staff active in trauma resuscitation, to review systemic		
										and care provider issues, as well as propose improvements to the care of the injured (CD 2-18).		
2	2-19	1			IV	1		7/1/2014	New	Level I, II, III and IV trauma centers a PIPS program must have audit filters to review and improve		TYPE II
2	2-19	1			IV.	1		//1/2014	New			ITPEII
2	2-20				IV			7/1/2014	New	pediatric and adult patient care (CD 2-19). Because of the greater need for collaboration with receiving trauma centers, the Level IV trauma		
2	2-20				IV			7/1/2014	New			TYPE II
										center must also actively participate in regional and statewide trauma system meetings and		
2	2.24				IV			7/4/2044		committees that provide oversight (CD 2-20).		
2	2-21				IV			7/1/2014	New	The Level IV trauma center must also be the local trauma authority and assume the responsibility for		TYPE II
2	2.22				IV			7/4/2044		providing training for prehospital and hospital-based providers (CD 2-21).		
2	2-22	1	11	111	IV	1	11	7/1/2014	New	For Level I, II, III and IV trauma centers the facility must participate in regional disaster management		TYPE II
-					-			= /1 /2 2 4 4		plans and exercises (CD 2-22).		
2	2-23	I	"	111				7/1/2014		Any adult trauma center that annually admits 100 or more injured children younger than 15 years must		TYPE II
										fulfill the following additional criteria demonstrating their capability to care for injured children:		
										Trauma surgeons must be credentialed for pediatric trauma care by the hospital's credentialing body		
					-			- 1. 1	-	(CD 2-23).		
2	2-24	I	П	ш				7/1/2014		There must be a pediatric emergency department area, a pediatric intensive care area, appropriate		TYPE II
										resuscitation equipment, and a pediatric-specific trauma PIPS program (CD 2-24).		
2	2-25	I	11	Ш				7/1/2014		For adult trauma centers annually admitting fewer than 100 injured children younger than 15 years,		TYPE II
										these resources are desirable. These hospitals, however, must review the care of their injured children		
										through their PIPS program (CD 2-25).		
3	3-4	I	II	III		I	II	7/1/2014		The trauma director must be involved in the development of the trauma center's bypass (diversion)		TYPE II
										protocol (CD 3-4).		
3	3-5	I	II	Ш		I	II	7/1/2014		The trauma surgeon must be involved in the decision regarding bypass (diversion) each time the center		TYPE II
										goes on bypass (CD 3-5).		
3	3-2	L.	H.	111	IV	1	11	7/1/2014	New	The protocols that guide prehospital trauma care must be established by the trauma health care team,		TYPE II
										including surgeons, emergency physicians, medical directors for EMS agencies, and basic and advanced		
										prehospital personnel (CD 3-2).		
3	3-3	I	II	III		1	II	7/1/2014	New	Rigorous multidisciplinary performance improvement is essential to evaluate overtriage and		TYPE II
										undertriage rates to attain the optimal goal of less than 5 percent undertriage (CD 3-3).		
3	3-1	I	11	III	IV	I	II	7/1/2014	New	The trauma program must participate in the training of prehospital personnel, the development and		TYPE II
										improvement of prehospital care protocols, and performance improvement and patient safety		
										programs (CD 3-1).		
3	3-6	1	11	Ш		1	11	7/1/2014	1	The trauma center must not be on bypass (diversion) more than 5 percent of the time (CD 3-6).		TYPE II
-	1	- F			1		1	, -,			1	

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3	3-7	I	11	Ш	IV	1	П	7/1/2014	New	When a trauma center is required to go on bypass or to divert, the center must have a system to notify		TYPE II
										dispatch and EMS agencies (CD 3-7). The center must do the following:		
										 Prearrange alternative destinations with transfer agreements in place 		
										Notify other centers of divert or advisory status		
										Maintain a divert log		
										Subject all divert log		
4	4-1	-			IV/			7/1/2014	New	 Subject all diverts and advisories to performance improvement procedures Direct physician–to–physician contact is essential (CD 4-1). 		TYPE II
4	4-1				IV	-			New		-	
4	4-2	ľ	"	111		1	11	7/1/2014		The decision to transfer an injured patient to a specialty care facility in an acute situation must be		TYPE II
										based solely on the needs of the patient and not on the requirements of the patient's specific provider		
										network (for example, a health maintenance organization or a preferred provider organization) or the		
										patient's ability to pay (CD 4-2).		
4	4-3	I.	Ш	ш	IV	I.	П	7/1/2014	New	A very important aspect of interhospital transfer is an effective PIPS program that includes evaluating	*	TYPE II
4	4.2				IV	1		7/1/2014	Nour	transport activities (CD 4-3).	*	TYPE II
4	4-3 5-1				1.4	-		7/1/2014	New	Perform a PIPS review of all transfers (CD 4-3).		
5	5-1	I	п	ш	IV	1	11	7/1/2014	New	A decision by a hospital to become a trauma center requires the commitment of the institutional		TYPE I
										governing body and the medical staff (CD 5-1).		
5	5-1	I.	II	ш	IV	I	П	7/1/2014	New	Documentation of administrative commitment is required from the governing body and the medical staff (CD 5-1)		TYPE I
5	5-2	-		Ш		1		7/1/2014	-	The [administrative] support must be reaffirmed continually (every 3 years) and must be current at the		TYPE II
5	J-2	1				1	"	//1/2014		time of verification (CD 5-2).		117 - 11
5	5-3	1	П	III		1	11	7/1/2014		The [medical staff] support must be reaffirmed continually (every 3 years) and must be current at the		TYPE II
										time of verification (CD 5-3).		
5	5-4	I.	Ш	ш		I.	Ш	7/1/2014	New	The trauma program must involve multiple disciplines and transcend normal departmental hierarchies (CD 5-4).		TYPE II
5	5-5	1.				1		9/4/2015	Added	The TMD must be dedicated to one trauma center and cannot administer two facilities.		TYPE I
<u> </u>	5-5							9/4/2015	Added	The TMD must be a full time/permanent position.	*	TYPE I
5	5-5										-	
5	5-5	ľ	"			1	11	7/1/2014	Revised	The TMD must be a current board-certified general surgeon (or a general surgeon eligible for		TYPE I
										certification by the American Board of Surgery according to current requirements) or a general surgeor	ו	
										who is an American College of Surgeons Fellow with a special interest in trauma care and must		
										participate in trauma call (CD 5-5).		
5	5-6	I	Ш	Ш		I	11	7/1/2014		The TMD must be current in Advanced Trauma Life Support® (ATLS®) (CD 5-6).		TYPE II
5	5-7	1	11			I	11	4/13/2018	Added	The total hours of trauma related CMEs changed from 16 hours annually/48 hours over 3 years to 12	*	
										hours annually/36 hours over 3 years.		
5	5-7	1	11			1	11	4/13/2018	Added	In Level I and II trauma centers, the trauma medical director (TMD) must fulfill this requirement by	*	Type II
	-							, .,		obtaining and demonstrating a minimum of 36 hours of verifiable external trauma-related continuing		71
										medical education (CME) over a 3 year period. In Level I and II pediatric trauma centers, the pediatric		
										TMD must fulfill the same requirement, of which a quarter (9 hours) must be pediatric trauma specific. (CD 5-7) Type II		
5	5-7	1	11			1	11	7/1/2014		The TMD must maintain an appropriate level of trauma-related extramural continuing medical		TYPE II
	-							, , -		education (16 hours annually, or 48 hours in 3 years) (CD 5-7).		
5	5-8	1		1		1		7/1/2014		Membership and active participation in regional or national trauma organizations are essential for the	*	TYPE II
5	50	ľ	"					//1/2014		trauma director in Level I and II trauma centers and are desirable for TMDs in Level III and IV facilities		
										(CD 5-8).		
5	5-11	1	11	III		1	11	7/1/2014	Revised	The TMD, in collaboration with the TPM, must have the authority to correct deficiencies in trauma care		TYPE II
										and exclude from trauma call the trauma team members who do not meet specified criteria(CD 5-11).		
5	5-9	1	II	Ш		1	П	7/1/2014	New	The TMD must have the authority to manage all aspects of trauma care (CD 5-9).		TYPE II
5	5-10	I	I	III		1	II	7/1/2014	New	The TMD must chair and attend a minimum of 50% of the multidisciplinary trauma peer review		TYPE II
										committee meetings. (CD 5-10)		
5	5-11	1	I	III		1	II	7/1/2014	New	In addition, the TMD must perform an annual assessment of the trauma panel providers in the form of	*	TYPE II
									1	Ongoing Professional Practice Evaluation (OPPE) and Focused Professional Practice Evaluation (FPPE)	1	
									1	when indicated by findings of the PIPS process (CD 5-11).		
5	5-12	1	11	Ш		1	11	7/1/2014	New	The TMD must have the responsibility and authority to ensure compliance with the above		TYPE II
								, , , ,=.		requirements and cannot direct more than one trauma center (CD 5-12).	1	
							1			requirements and cannot an element than one traunia center (ED 5 12).	1	

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5	5-13	I	II	III	IV	I	11	8/13/2018	Added	Highest level of activation including the six required criteria listed in Table 2 - Gunshot wounds to the		Type II
										neck, chest, or abdomen or extremities proximal to the elbow/knee; has been removed		
5	5-13	I	П	Ш	IV	1	II	7/1/2014	New	The criteria for a graded activation must be clearly defined by the trauma center, with the highest leve	1	TYPE II
										of activation including the six required criteria listed in Table 2 (CD 5-13).		
5	5-14	I	П			1	H	7/1/2014	New	In Level I and II trauma centers, the highest level of activation requires the response of the full trauma		TYPE II
										team within 15 minutes of arrival of the patient, and the criteria should include physiologic criteria and	I	
										some or several of the anatomic criteria (CD 5-14).		
5	5-15			III	IV			7/1/2014	New	In Level III and IV trauma centers the team must be fully assembled within 30 minutes (CD 5-15).		TYPE II
5	5-16	1	11	III	IV	1	11	7/1/2014	New	Other potential criteria for trauma team activation that have been determined by the trauma program		TYPE II
										to be included in the various levels of trauma activation must be evaluated on an ongoing basis in the		
										PIPS process (CD 5-16) to determine their positive predictive value in identifying patients who require		
										the resources of the full trauma team.		
5	5-16	I	11	III		1	II	7/1/2014	New	The emergency physician may initially evaluate the limited-tier trauma patient, but the center must		TYPE II
										have a clearly defined response expectation for the trauma surgical evaluation of those patients		
										requiring admission (CD 5-16).		
5	5-18	1		ш		1	11	7/1/2014		Programs that admit more than 10% of injured patients (NTDS definition) to non–surgical services mus	t *	TYPE II
		-				-		.,_,		review all non-surgical admissions through the trauma PIPS process (CD 5-18).		
5	5-17	1				1	Ш	7/1/2014		In a Level I or II trauma center, seriously injured patients must be admitted to, or evaluated by, an		Type II
5	5 17							77172014		identifiable surgical service staffed by credentialed trauma providers (CD 5-17).		Type II
5	5-19	1				1		7/1/2014		[Level I and II] Sufficient infrastructure and support to ensure adequate provision of care must be		TYPE I
5	5 15							,, _, _0		provided for this service (CD 5-19).		
5	5-20	1				1		7/1/2014		[Level I and II] In teaching facilities, the requirements of the residency review committees also must be		TYPE II
5	5 20							,, _, _, _, _, .		met (CD 5-20).		
5	5-17			Ш				7/1/2014		In Level III centers, injured patients may be admitted to individual surgeons, but the structure of the		TYPE II
5	5 17							77172014		program must allow the trauma director to have oversight authority for the care of these patients. (CD		
										5-17)		
5	5-21			Ш				7/1/2014		[Level III] There must be a method to identify the injured patients, monitor the provision of health care		TYPE I
5	5 21							77172014		services, make periodic rounds, and hold formal and informal discussions with individual practitioners		
										(CD 5-21).		
5	5-22	1		III		1		7/1/2014	New	In addition to administrative ability, the TPM must show evidence of educational preparation and		TYPE II
5	5 22							77172014		clinical experience in the care of injured patients (CD 5-22).		
5	5-23	1						7/1/2014	New	In Level I and II trauma centers, the TPM must be full-time and dedicated to the trauma program (CD 5	-	TYPE II
5	5 25							77172014		23).		
5	5-24	1	U II			1	11	8/26/2018	Added	Refer to CD Added 6-10		
5	5-24	-li				l.		5/31/2018	Added	[Level I and II] The TPM must show evidence of educational preparation, with a minimum of 12 hours		TYPE II
	5 24							5,51,2010	Added	(internal or external) of trauma-related continuing education per year and clinical experience in the		
										care of injured patients (CD 5-24).		
5	5-24	1				1		7/1/2014		[Level I and II] The TPM must show evidence of educational preparation, with a minimum of 16 hours		TYPE II
5	524						"	//1/2014		(internal or external) of trauma-related continuing education per year and clinical experience in the		
										care of injured patients (CD 5-24).		
5	5-25			ш		1		7/1/2014		The trauma center's PIPS program must have a multidisciplinary trauma peer review committee		TYPE II
5	5-25	1	"			'	"	//1/2014		chaired by the TMD (CD 5-25).		TTPET
6	6-1	1				1		7/1/2014	New	General surgeons caring for trauma patients must meet certain requirements, as described herein (CD		TYPE II
0	0-1	1				1		7/1/2014	New	6-1). These requirements may be considered to be in four categories: current board certification,		TTPET
6	6-1	-		Ш	-			7/1/2014	New	clinical involvement, performance improvement and patient safety, and education.		TYPE II
U	0-1		"			'	"	//1/2014	inew	Board certification or eligible for certification by the American Board of Surgery according to current		TIPEII
							1			requirements or the alternate pathway is essential for general surgeons who take trauma call in Level I	,	
6	6.2	-	-			-		7/1/2014	Now	II, and III trauma centers (CD 6-2).	*	דעתר יי
0	6-3				-			7/1/2014	New	Alternate Criteria (CD 6-3) for non–Board–Certified Surgeons in a Level I, II, or III Trauma Centers.	Ŧ	TYPE II
0	6-4			111	-			7/1/2014		Trauma surgeons must have privileges in general surgery (CD 6-4).		TYPE II
σ	6-5		"			1	"	7/1/2014		In Level I and II trauma centers, the trauma surgeon on call must be dedicated to a single trauma		TYPE I
-		- <u> </u>		+	+	+.		7/4/2011		center while on duty (CD 6-5).	-	T/05.1
ь	6-6		"				"	7/1/2014		[Level I and II] In addition, a published backup call schedule for trauma surgery must be available (CD 6	-	TYPE II
										[6].		

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6	2-8	I	II	III	IV	I	11	7/1/2014	New	For Level I and II trauma centers, the maximum acceptable response time is 15 minutes; for Level III		TYPE I
										and IV trauma centers, the maximum acceptable response time is 30 minutes. Response time will be		
										tracked from patient arrival rather than from notification or activation. An 80 percent attendance		
										threshold must be met for the highest-level activations (CD 2-8).		
6	6-7	I	11	III		I	II	7/1/2014		For Level I, II, and III trauma centers, the attending surgeon is expected to be present in the operating		TYPE II
										room for all operations. A mechanism for documenting this presence is essential (CD 6-7).		
6	8-13	I	11	III		I	II	10/6/2015		The liaison or representative (one pre-determined alternate) must attend the Trauma multidisciplinary	*	TYPE II
										peer review meeting at least 50% of the time.		
6	8-13	I	П	III		1	I	7/1/2014	New	In Level I, II, and III trauma centers, there must be a multidisciplinary trauma peer review committee	*	TYPE II
										chaired by the trauma medical director (CD 5-25) and representatives from general surgery (CD 6-8),		
										and liaisons from orthopaedic surgery (CD 9-16), emergency medicine (CD 7-11), ICU (CD 11-62), and		
										anesthesia (CD 11-13), and for Level I and II trauma centers, neurosurgery (CD 8-13) and radiology (CD		
										11-39). Level III trauma centers that have neurosurgery capabilities and retain those patients are		
										required to comply with CD 8-13.		
6	6-8	1	11	Ш		1	П	7/1/2014		Each member of the group of general surgeons must attend at least 50 percent of the multidisciplinary	*	TYPE II
0	00					'		//1/2014		trauma peer review committee meetings (CD 6-8).		
6	5-7	1	11			1	П	4/13/2018	Added	The total hours of trauma related CMEs changed from 16 hours annually/48 hours over 3 years to 12	*	Type II
0	57					'		-, 13, 2010	Added	hours annually/36 hours over 3 years.		i ype ii
6	5-7	1				1	П	4/20/2018	Added	In Level I and II trauma centers, the trauma medical director (TMD) must fulfill this requirement by	*	Type II
0	57					· ·		4/20/2010	Added	obtaining and demonstrating a minimum of 36 hours of verifiable external trauma-related continuing		i ype ii
										medical education (CME) over a 3 year period. In Level I and II pediatric trauma centers, the pediatric		
										TMD must fulfill the same requirement, of which a quarter (9 hours) must be pediatric trauma specific.		
6	5-7	-			-	1		7/1/2014	-	(CD 5-7) Type II The trauma medical director must accrue an average of 16 hours annually or 48 hours in 3 years of	*	TYPE II
0	5-7	1	"			1		//1/2014				ITPEII
<u> </u>	6-9					1		7/1/2014		verifiable external trauma-related CME (CD 5-7).		TYPE II
6	6-9	1	"	111		ľ		7/1/2014		All general surgeons on the trauma team must have successfully completed the Advanced Trauma Life		I YPE II
-	6.40							1/25/2010	A. 1. 1. 1	Support® (ATLS®) course at least once (CD 6-9).	*	T U
6	6-10	1	"			1	11	4/26/2018	Added	Effective immediately, in Level I and II trauma centers, trauma surgeons, pediatric surgeons and the	Ŧ	Type II
										specialty panel members (emergency medicine, orthopaedic surgery, neurosurgery and ICUs)		
										participating on the trauma call panel must demonstrate evidence of ongoing trauma related		
										education. (CD 6-10) Type II		
										For the trauma surgeons, pediatric surgeons and specialty panel members (emergency medicine,		
										neurosurgery, orthopaedic surgery and ICUs) participating on the trauma call panel, staying current		
										with their board certification meets the CME requirements. (CDs 5-24, 7-12, 7-13, 8-14, 8-15, 9-18, 9-		
										19, 10-39, 10-40, 11-63, and 11-64) Type II		
										The TMD is expected to assess individual surgeon's adequacy of trauma care knowledge in the ongoing		
										professional practice evaluation (OPPE) process and retains the right to require additional CME or		
										internal education process (IEP) that stems from the trauma center's performance improvement and		
										patient safety (PIPS) process. For the specialty panel members (emergency medicine, neurosurgery,		
										orthopaedic surgery and ICUs), the OPPE may be done by the specialty liaisons with approval of the		
6	6-10	I	11			I	II	4/13/2018	Added	The total hours of trauma related CMEs changed from 16 hours annually/48 hours over 3 years to 12	*	
										hours annually/36 hours over 3 years.		
6	6-10	I	II			I	II	7/1/2014		In Level I and II trauma centers, this requirement must be met by the acquisition of 16 hours of CME	*	TYPE II
										per year on average or by demonstrating participation in an internal educational process conducted by		
		1								the trauma program based on the principles of practice-based learning and the performance		
										improvement and patient safety program (CD 6-10).		
7	7-1	1	11	111		1	11	7/1/2014		The emergency departments of Level I, II, and III trauma centers must have a designated emergency	1	TYPE I
		1								physician director supported by an appropriate number of additional physicians to ensure immediate		
		1		1						care for injured patients (CD 7-1).	1	

Y Y </th <th>Chapter</th> <th>CD #</th> <th>Level I</th> <th>Level II</th> <th>Level III</th> <th>Level IV</th> <th>PTC I</th> <th>PTC II</th> <th>Date Change</th> <th>Criteria</th> <th>Resources 2014 Orange Book Description of Criteria</th> <th>Clarification</th> <th>Туре</th>	Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
7 73 74 74 </td <td>7</td> <td>7-2</td> <td>I</td> <td>П</td> <td></td> <td></td> <td>I</td> <td>П</td> <td>7/1/2014</td> <td>New</td> <td></td> <td></td> <td></td>	7	7-2	I	П			I	П	7/1/2014	New			
Image: Section of the sectio													
Image: Image:<	7	7-3			Ш				7/1/2014		Occasionally, in a Level III trauma center, it is necessary for the physician to leave the emergency		TYPE II
Image: Mode in the strength of the stre											department for short periods to address in-house emergencies. Such cases and their frequency must		
7 74 1 1 1 1 7 1 <th1< th=""> 1 1 1</th1<>											be reviewed by the performance improvement and patient safety (PIPS) program to ensure that this		
Image: Constraint of the											practice does not adversely affect the care of patients in the emergency department (CD 7-3).		
Image: Constraint of the		7.4							7/1/2011				T)(D5
7 7 1 1 1 1 1 1 7/1/014 1 <th1< th=""> 1 1 1<td>/</td><td>7-4</td><td>1</td><td>11</td><td></td><td></td><td>I</td><td></td><td>//1/2014</td><td></td><td></td><td></td><td>I YPE II</td></th1<>	/	7-4	1	11			I		//1/2014				I YPE II
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7 6 1 1 1 1 7/1/2014 New requirements or that alternate pathway is contributing to any engraphies howly according to current requirements or that alternate pathway is seesifilific physicians withing the mergency department and a range basis. In careful, and it is runs centers (D 7-6). * TPF II 7 6-3 1 0 0 0 5/1/2015 Acceptible program centers (D 7-6). TPF II TPF II 7 6-3 1 0 0 5/1/2015 Acceptible program centers (D 7-6). TPF II TPF II 7 6-3 1 0 0 5/1/2015 Acceptible program centers (D 7-6). TPF II TPF II 7 6-3 1 0 0 5/1/2014 New Acceptible program centers (D 7-6). TPF II TPF II 7 7 1 0 0 0 7/1/2014 New Comparison of the CACe currents the physician centers (D 7-6). TPF II 7 7.4 0 0 0 7/1/2014 New engrame centers (D 7-6). TPF II 7 7.4	/	7-5	1				1	"	//1/2014				TTPEI
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7 7.9 I II II II II 7/1/2014 A designated emergency physician liaison must be available to the trauma director for PIPS issues that councul in the emergency ophysicians must participate actively in the overall trauma PIPS program and the multidisciplinary trauma per review committee (CD 7-10). TYPE II 7 7.10 I II III II 7/1/2014 Emergency physicians must participate actively in the overall trauma PIPS program and the multidisciplinary trauma per review committee (CD 7-10). TYPE II 7 7.12 I II II II 7/1/2014 Revised The emergency physicians must participate actively in the overall trauma PIPS program and the multidisciplinary trauma per review committee (CD 7-10). TYPE II 7 7.12 I II I II 7/1/2014 Revised CD 6-10 TYPE II 7 7.12 I II II 7/1/2014 In tevel I and II trauma centers, the liaison representative from emergency physicians who participate on the trauma and the must active	7	7-8	1	11	111		1	11	7/1/2014		A representative from the emergency department must participate in the prehospital PIPS program		TYPE II
1 1											(CD 7-8).		
7 7-10 I II II II II II III III III IIII IIII IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	7	7-9	I.	II	III		1	11	7/1/2014		A designated emergency physician liaison must be available to the trauma director for PIPS issues that		TYPE II
Image: Constraint of the constraint											occur in the emergency department (CD 7-9).		
7 7-11 I II II II II III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	7	7-10	I	11	111		I	11	7/1/2014		Emergency physicians must participate actively in the overall trauma PIPS program and the		TYPE II
PAI P											multidisciplinary trauma peer review committee (CD 7-10).		
7 7-12 I II I II 4/26/2018 Added Refer to Added CD 6-10 Type II 7 7-12 I II II II 7/1/2014 In Level I and II trauma centers, the liaison representative from emergency medicine must accrue an average of 16 hours annually or 48 hours in 3 years of verifiable external trauma-related CME (CD 7-12). TYPE II 7 7-13 I II I 4/26/2018 Added Refer to CD Added 6-10 Type II 7 7-13 I II I 4/26/2018 Added Refer to CD Added 6-10 Type II 7 7-13 I II I 4/26/2018 Added Refer to CD Added 6-10 Type II 7 7-13 I II I 7/1/2014 Other emergency physicians who participate on the trauma team also must be knowledgeable and current in the care of injured patients. This requirement may be met by documenting the acquisition of 16 hours of trauma-related CME per year on average of ty demonstrating participation in an internal educational process conducted by the trauma program based on the principles of practice-based learning and the PHS program (CD 7-13). TYPE II 7 7-14 I III III 7/1/2014 Physicians who are certifie	7	7-11	I	II	III		I	II	7/1/2014	Revised	The emergency medicine liaison the multidisciplinary trauma peer review committee must attend a	*	TYPE II
7 7-12 I II II II 7/1/2014 In Level I and II trauma centers, the liaison representative from emergency medicine must accrue an average of 16 hours annually or 48 hours in 3 years of verifiable external trauma-related CME (CD 7-12). TYPE II 7 7.13 I II I II 4/26/2018 Added Refer to CD Added 6-10 Type II 7 7.13 I II II II 4/26/2018 Added Refer to CD Added 6-10 Type II 7 7.13 I II II II 7/1/2014 Other emergency physicians who participate on the trauma also must be knowledgeable and current in the care of injured patients. This requirement may be met by documenting the acquisition of 16 hours of trauma-related CME per year on average or by demonstrating participation in an internal educational process conducted by the trauma program based on the principals of practicepatient in an internal educational process conducted by the trauma program docord provide body according to their current requirements must have successfully completed the ATLS course at least once (CD 7-14). TYPE II 7 7.14 II III 1 III 7/1/2014 In Level I, II, and III trauma centers, all board-certified emergency physicians or those eligible for certification by an appropriate body according to their current requirements must have successfully completed the ATLS course at least once (minimum of 50 percent of the committee meetings (CD 7-11).		
Image: Series of the series	7	7-12	I	11			1	11	4/26/2018	Added	Refer to Added CD 6-10		Type II
Image:	7	7-12	I	II			I	11	7/1/2014		In Level I and II trauma centers, the liaison representative from emergency medicine must accrue an	*	TYPE II
7 7.13 I II I II 4/26/2018 Added Refer to CD Added 6-10 Type II 7 7.13 I II II II II III III Type II 7 7.13 I II II III III T/1/2014 Other emergency physicians who participate on the trauma team also must be knowledgeable and current in the care of injured patients. This requirement may be met by documenting the acquisition of 16 hours of trauma-related CME per year on average or by demonstrating participation in an internal educational process conducted by the trauma program based on the principles of practice-based learning and the PIPS program (CD 7-13). TYPE II 7 7-14 III III 7/1/2014 In tevel I, II, and III trauma centers, all board-certified emergency physicians or those eligible for certification by an appropriate body according to their current requirements must have successfully completed the ATLS curse at least once (CD 7-14). TYPE II 7 7-15 I III III 7/1/2014 Physicians who are certified by boards other than emergency medicine who treat trauma patients in the emergency department are required to have current ATLS status (CD 7-15). * TYPE II 8 8-1 III III 7/1/2014 Frisurge (CD 8-1). * TYPE II											average of 16 hours annually or 48 hours in 3 years of verifiable external trauma-related CME (CD 7-		
7 7-13 I II II II 7/1/2014 Other emergency physicians who participate on the trauma team also must be knowledgeable and current in the care of injured patients. This requirement may be met by documenting the acquisition of 16 hours of trauma-related CME per year on average or by demonstrating participation in an internal educational process conducted by the trauma program based on the principles of practice-based learning and the PIPS program (CD 7-13). TYPE II 7 7-14 I II II 7/1/2014 In Level I, II, and III trauma centers, all board-certified emergency physicians or those eligible for certification by an appropriate body according to their current requirements must have successfully completed the ATLS course at least once (CD 7-14). TYPE II 7 7-15 I III II 7/1/2014 Physicians who are certified by boards other than emergency medicine who treat trauma patients in the emergency department are required to have current ATLS status (CD 7-15). TYPE II 8 8-1 I III 7/1/2014 Revised Neurotrauma care must be continuously available for institutional-special cordinal process of a least once (CD 7-14). TYPE II 8 8-2 I III II 7/1/2014 Revised Neurotrauma care must be continuously available for institutional-special cord injury patients and must be present and respond within 30 minstitub adangenel cord injury patients and must be pr											12).		
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Image: Series of the series	7	7-13	I	II			I	11	7/1/2014		Other emergency physicians who participate on the trauma team also must be knowledgeable and	*	TYPE II
Image: Constraint of the constra											current in the care of injured patients. This requirement may be met by documenting the acquisition of	f	
Image: Constraint of the constra											16 hours of trauma-related CME per year on average or by demonstrating participation in an internal		
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7 7-14 I II III II II II 7/1/2014 In Level I, II, and III trauma centers, all board-certified emergency physicians or those eligible for certification by an appropriate body according to their current requirements must have successfully completed the ATLS course at least once (CD 7-14). TYPE II 7 7-15 I II II II 7/1/2014 Physicians who are certified by boards other than emergency medicine who treat trauma patients in the emergency department are required to have current ATLS status (CD 7-15). * TYPE II 8 8-1 I II II 7/1/2014 If this surgeon is not the director of the neurosurgery service, a neurologic surgeon liaison must be designated (CD 8-1). TYPE I 8 8-2 I II II 7/1/2014 Revised Neurotrauma center must be continuously available for all TBI and spinal cord injury patients and must * TYPE I 8 8-2 I II II 7/1/2014 Revised Neurotrauma center must provide a reliable, published neurotrauma call schedule with formally * TYPE I 8 8-3 I II II 7/1/2014 The trauma center must provide a reliable, published neurotrauma call schedule with formally * TYPE I <td></td>													
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77.15IIIIIIIIII7/1/2014Physicians who are certified by boards other than emergency medicine who treat trauma patients in the emergency department are required to have current ATLS status (CD 7-15).*TYPE II88-1III7/1/2014If this surgeon is not the director of the neurosurgery service, a neurologic surgeon liaison must be designated (CD 8-1).TYPE I88-2IIII7/1/2014Revised be present and respond within 30 minutes based on institutional-specific criteria (CD 8-2).*TYPE I88-3IIIII7/1/2014The trauma center must provide a reliable, published neurosurgeon, hospital, or system to care for*TYPE I													
8 8-1 I II 7/1/2014 If this surgeon is not the director of the neurosurgery service, a neurologic surgeon liaison must be designated (CD 8-1). TYPE I 8 8-2 I II I 7/1/2014 Revised Neurotrauma care must be continuously available for all TBI and spinal cord injury patients and must * TYPE I 8 8-3 I II I 7/1/2014 Revised Neurotrauma care must be continuously available for all TBI and spinal cord injury patients and must * TYPE I 8 8-3 I II I 7/1/2014 The trauma center must provide a reliable, published neurotrauma call schedule with formally * TYPE I arranged contingency plans in case the capability of the neurosurgeon, hospital, or system to care for * TYPE I	7	7-15	1	11	III		1	11	7/1/2014			*	TYPE II
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8 8-2 I II I II 7/1/2014 Revised Neurotrauma care must be continuously available for all TBI and spinal cord injury patients and must * TYPE I 8 8-3 I II I II 7/1/2014 Revised Neurotrauma care must be continuously available for all TBI and spinal cord injury patients and must * TYPE I 8 8-3 I II I II 7/1/2014 The trauma center must provide a reliable, published neurotrauma call schedule with formally * TYPE I arranged contingency plans in case the capability of the neurosurgeon, hospital, or system to care for * TYPE I	8	8-1	I	11			I	11	7/1/2014		If this surgeon is not the director of the neurosurgery service, a neurologic surgeon liaison must be		TYPE I
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8 8-3 I II II 7/1/2014 The trauma center must provide a reliable, published neurotrauma call schedule with formally * TYPE I arranged contingency plans in case the capability of the neurosurgeon, hospital, or system to care for	8	8-2	I	II			I	11	7/1/2014	Revised	Neurotrauma care must be continuously available for all TBI and spinal cord injury patients and must	*	TYPE I
arranged contingency plans in case the capability of the neurosurgeon, hospital, or system to care for											be present and respond within 30 minutes based on institutional-specific criteria (CD 8-2).		
	8	8-3	I	11			I	11	7/1/2014		The trauma center must provide a reliable, published neurotrauma call schedule with formally	*	TYPE I
neurotrauma patients is overwhelmed (CD 8-3).											arranged contingency plans in case the capability of the neurosurgeon, hospital, or system to care for		
											neurotrauma patients is overwhelmed (CD 8-3).		

8	8-4	1										Туре
		1	11			1	II	7/1/2014	New	The center must have a predefined and thoroughly developed neurotrauma diversion plan that is		TYPE II
										implemented when the neurosurgeon on call becomes encumbered (CD 8-4). A predefined, thoroughly		
										developed neurotrauma diversion plan must include the following: • Emergency medical services		
										notification of neurosurgery advisory status/diversion. • A thorough review of each instance by the		
										performance improvement and patient safety (PIPS) program. • Monitoring of the efficacy of the		
										process by the PIPS program.		
8	8-5	1	П	III		1	II	7/1/2014	New	A formal, published contingency plan must be in place for times in which a neurosurgeon is	*	TYPE II
										encumbered upon the arrival of a neurotrauma case (CD 8–5). The contingency plan must include the		
										following: • A credentialing process to allow the trauma surgeon to provide initial evaluation and		
										stabilization of the neurotrauma patient. • Transfer agreements with a similar or higher-level verified		
										trauma center. • Direct contact with the accepting facility to arrange for expeditious transfer or		
										ongoing monitoring support. • Monitoring of the efficacy of the process by the PIPS program.		
8	8-6	I	II	III		I	II	7/1/2014	New	If one neurosurgeon covers two centers within the same limited geographic area, there must be a	*	TYPE II
0	0.0				_			7/4/2044		published backup schedule (CD 8-6.)		T/DE 11
8	8-6	1	"	111		1	"	7/1/2014	New	In addition, the performance improvement process must demonstrate that appropriate and timely care is provided (CD 8-6).		TYPE II
8	8-7			Ш				7/1/2014		A Level III trauma center must have a plan approved by the trauma medical director that determines		TYPE II
										which types of neurosurgical injuries may remain and which should be transferred (CD 8-7).		
8	8-8			Ш				7/1/2014		Transfer agreements must exist with appropriate Level I and Level II trauma centers (CD 8-8).	*	TYPE II
8	8-9			Ш				7/1/2014		In all cases, whether patients are admitted or transferred, the care must be timely, appropriate, and	*	TYPE I
										monitored by the PIPS program (CD 8-9).		
8	8-10	I	П	111		I.	П	7/1/2014	New	Board certification or eligibility for certification by the current standard requirements or the alternate		TYPE II
										pathway is essential for neurosurgeons who take trauma call in Level I, II, or III trauma centers (CD 8-		
										10).		
8	6-3	I	Ш	Ш		1	Ш	7/1/2014	New	Alternate Criteria (CD 6-3) for Non–Board–Certified Neurosurgeons in Level I, II, and III Trauma Centers.	*	TYPE II
8	8-11	1	11			1		7/1/2014		Qualified neurosurgeons should be regularly involved in the care of patients with head and spinal cord		TYPE I
-	-							, , -		injuries and must be credentialed by the hospital with general neurosurgical privileges (CD 8-11).		
0	8-12	1				1		7/1/2014		The neurosurgery service must participate actively in the overall trauma PIPS program (CD 8-12).		TYPE II
o	8-13	1				1		7/1/2014	Revised	The neurosurgery liaison on the multidisciplinary trauma peer review committee must attend a	*	TYPE II
0	0-13	'	"			'		//1/2014	Reviseu	minimum of 50 percent of the committee's meetings (CD 8-13).		TTPEII
٩	9-16	1		III*		1		10/6/2015		The liaison or representative (one pre-determined alternate) must attend the Trauma multidisciplinary	*	TYPE II
9	9-10	1	"			1	"	10/6/2015		peer review meeting at least 50% of the time.		ITPEII
8	8-13			Ш		1		7/1/2014	New	Level III centers with any emergency neurosurgical cases must also have the participation of	*	TYPE II
										neurosurgery on the multidisciplinary trauma appear review committee (8-13)		
8	8-14	I	П			I	II	4/26/2018	Added	Refer to CD Added 6-10		Type II
8	8-14	I	11			I	11	7/1/2014		The liaison representative from neurosurgery must accrue an average of 16 hours annually or 48 hours	*	TYPE II
										in 3 years of verifiable external trauma-related CME (CD 8-14)		
8	8-15	I	11			1	П	4/26/2018	Added	Refer to CD Added 6-10		Type II
8	8-15	I	П			I	П	7/1/2014		This requirement may be documented by the acquisition of 16 hours of trauma CME per year on	*	TYPE II
								1		average or through an internal educational process (IEP)conducted by the trauma program and the		
										neurosurgical liaison based on the principles of practice–based learning and the PIPS program (CD 8- 15)		
9	9-1	1				1		7/1/2014		Because of their skills and training in the management of the acute and rehabilitation phases of	*	TYPE II
5	51	ľ				l.	"	,, 1, 2014		musculoskeletal trauma, physical and occupational therapists and rehabilitation specialists are		
										essential at Level I and II trauma centers (CD 9-1).		
9	9-2							7/1/2014		Operating rooms must be promptly available to allow for emergency operations on musculoskeletal		TYPE I
5	52	ľ				l'	"	,, 1, 2014		injuries, such as open fracture debridement and stabilization, external fixator placement, and		
								1		compartment decompression (CD 9-2).		

Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
9	9-3	I	П			I.	П	7/1/2014		In Level I and II trauma centers, a system must be organized so that musculoskeletal trauma cases can	*	TYPE II
										be scheduled without undue delay and not at inappropriate hours that might conflict with more urgent		
				_	_		_			surgery or other elective procedures (CD 9-3).		_
9	9-4	I	П	ш		I	Ш	7/1/2014		Level I, II, and III trauma centers must have an orthopaedic surgeon who is identified as the liaison to		TYPE I
				-						the trauma program (CD 9-4).		
9	9-5	I				l.		7/1/2014	New	In a Level I trauma center the orthopaedic care must be overseen by an individual who has completed a	*	TYPE I
										fellowship in orthopaedic traumatology approved by the Orthopaedic Trauma Association (OTA) (CD 9- 5).		
9	9-5					1		7/1/2014	New	In Pediatric Level I trauma centers this requirement may be met by having formal transfer agreements	*	TYPE I
										that specify which cases will be transferred for high level orthopaedic oversight and assuring that all		
										such transfers (or potential transfers) are reviewed as part of the performance improvement process		
										(CD 9-5).		
9	9-6	I	11			1	II	7/1/2014		[Level I and II] Orthopaedic team members must have dedicated call at their institution or have an	*	TYPE II
										effective backup call system (CD 9-6).		
9	9-7	I	11			I	11	7/1/2014		[Level I and II] They must be available in the trauma resuscitation area within 30 minutes after	*	TYPE II
										consultation has been requested by the surgical trauma team leader for multiply injured patients (CD 9	-	
										7) based on institution-specific criteria.		
9	9-8	I	П			1	II	7/1/2014	New	[Level I and II] The performance improvement process must ensure that care is timely and appropriate		TYPE II
										(CD 9-8).		
9	9-9	I	П			I	II	7/1/2014		[Level I and II] If the on-call orthopaedic surgeon is unable to respond promptly, a backup consultant	*	TYPE II
				_	_		_			on–call surgeon must be available (CD 9-9).		_
9	9-10	I	11			I	II	7/1/2014		[Level I and II] The design of this system is the responsibility of the orthopaedic trauma liaison but must	:	TYPE II
										be approved by the trauma program director (CD 9-10).		_
9	2-3	I	Ш			I	II	7/1/2014		[Level I and II] The trauma center must provide all the necessary resources for modern musculoskeletal		TYPE II
										trauma care, including instruments, equipment, and personnel, along with readily available operating		
										rooms for musculoskeletal trauma procedures (CD 2-3).		_
9	9-11			Ш				7/1/2014		Level III facilities vary significantly in the staff and resources that they can commit to musculoskeletal		TYPE II
										trauma care, but they must have an orthopaedic surgeon on call and promptly available 24 hours a day (CD 9-11).		
9	9-12			III				7/1/2014	New	[Level III] If the orthopaedic surgeon is not dedicated to a single facility while on call, then a published		TYPE II
										backup schedule is required (CD 9-12).		
9	9-13			III				7/1/2014		[Level III] The PIPS process must review the appropriateness of the decision to transfer or retain major		TYPE II
										orthopaedic trauma cases (CD 9-13).		
9	9-14	I.	II			1	II.	7/1/2014	New	There must be protocols in Level I and II centers for the following orthopaedic emergencies: 1) the		TYPE II
										type and severity of pelvic and acetabular fractures that will be treated at the institutions as well as		
										those that will be transferred out for care; 2) the timing and sequence for the treatment of long bone		
										fractures in multiply injured patients; and 3) the wash out time for open fractures. These protocols		
										must be included as part of the PIPS process (CD 9-14).		
9	9-15	I	П	Ш		I	II	7/1/2014		The orthopaedic service must participate actively with the overall trauma PIPS program and the		TYPE II
										multidisciplinary trauma peer review committee (CD 9-15).		
9	9-16	I	П	Ш		I	Ш	10/6/2015		The liaison or representative (one pre-determined alternate) must attend the Trauma multidisciplinary	*	TYPE II
										peer review meeting at least 50% of the time.		
9	9-16	I	II	ш		I	Ш	7/1/2014		The orthopaedic liaison to the trauma PIPS program must attend a minimum of 50 percent of the	*	TYPE II
								- / . /		multidisciplinary trauma peer review committee meetings (CD 9-16).		
9	9-17	I	11	III		I	11	7/1/2014	New	Board certification or eligibility for certification by the appropriate body according to current standard		TYPE II
										requirements, or the alternate pathway is essential for orthopaedic surgeons who take trauma call in		1
-	6.2	-			+		-	7/4/2014		Level I, II, and III trauma centers (CD 9-17).	*	7/05
Э	6-3	1		ш	1	1	"	7/1/2014	New	Alternate Criteria (CD 6-3) for Non–Board–Certified Orthopaedic Surgeons in a Level I, II, or III Trauma Center.	^	TYPE II
9	9-18	1	11		1	1	11	4/26/2018	Added	Refer to Added CD 6-10		TYPE II
9	9-18	I	11			I	II	7/1/2014		The orthopaedic surgical liaison to the trauma program at Level I and II centers must accrue an average	*	TYPE II
					1					of 16 hours annually or 48 hours in 3 years of verifiable external trauma-related continuing medical		
					1				1	education (CME) (CD 9-18).		

Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
9	9-19	I	II			1	II	4/26/2018	Added	Refer to Added CD 6-10		TYPE II
9	9-19	1	П			I	Ш	7/1/2014		This requirement may be documented by the acquisition of 16 hours of trauma CME per year on	*	TYPE II
										average or through an internal educational process conducted by the trauma program and the		
										orthopaedic liaison based on the principles of practice-based learning and the PIPS program (CD 9-19).		
10	2-3					1	11	7/1/2014		Hospitals that pursue verification as pediatric trauma centers must meet the same resource	*	TYPE II
										requirements as adult trauma centers, in addition to pediatric resource requirements (CD 2-3) (Table 1)		
10	10-1					1		7/1/2014		A Level I pediatric trauma center must annually admit 200 or more injured children younger than 15		TYPE I
										years (CD 10-1)		
10	10-2						11	7/1/2014		A Level II pediatric trauma center must annually admit 100 or more injured children younger than 15 years (CD 10-2).		TYPE I
10	10-3					I	II	7/1/2014	Revised	All Level I and II pediatric trauma centers must have a dedicated pediatric trauma program manager		TYPE I
10	10-4	-			-	1		7/1/2014		(CD 10-3) All Level I and II pediatric trauma centers must have a pediatric trauma registrar (CD 10-4).		TYPE II
10	10-4					1		7/1/2014		In a Level I pediatric trauma center, the pediatric trauma program manager must be a full-time		TYPE II
10	10 5					ľ		//1/2014		position dedicated to the pediatric trauma service (CD 10-5).		
10	10-6					I	11	7/1/2014		All pediatric trauma centers must have a pediatric trauma performance improvement and patient		TYPE I
										safety (PIPS) program (CD 10-6).		
10	10-7					I	II	7/1/2014		In addition, all pediatric trauma centers must have the following programs: pediatric rehabilitation,		TYPE II
										child life and family support programs, pediatric social work, child protective services, pediatric injury		
										prevention, community outreach, and education of health professionals and the general public in the		
					_					care of pediatric trauma patients (CD 10-7).		
10	10-8					1	Ш	7/1/2014	New	Level I and II pediatric trauma centers must have a mechanism in place to assess children for		TYPE II
		-			_			= /1 /2211		maltreatment (CD 10-8).		
10	10-9					1		7/1/2014	Nau	Level I pediatric trauma centers must have identifiable pediatric trauma research (CD 10-9).		TYPE II
10	10-10					I		7/1/2014	New	The pediatric Level I center's research requirement is equivalent to that of adult Level I trauma centers (CD 10-10).		TYPE II
10	10-11					1		7/1/2014	New	In combined Level I adult and pediatric centers, half of the research requirement must be pediatric		TYPE II
										research (CD 10-11).		
10	10-12					I		7/1/2014		A Level I pediatric trauma center must have at least two surgeons who are board certified or eligible	*	TYPE I
										for certification by the American Board of Surgery according to current requirements in pediatric		
		_	_		-			= / 1 / 2 2 1 1		surgery (CD 10-12).		
10	10-13					I		7/1/2014		(Level I PTC) On staff, there must be one board-certified surgeon or one surgeon eligible for		TYPE I
										certification by an appropriate orthopaedic board (see Chapter 9, Clinical Functions: Orthopaedic		
										Surgery) according to the current requirements of that board who also has had pediatric fellowship training (CD 10-13).		
10	10-14	-				1		7/1/2014		(Level I PTC) Additionally, there must be on staff at least one board–certified surgeon or one surgeon		TYPE I
	10 1 1							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		eligible for certification by the American Board of Neurological Surgery (see Chapter 8, Clinical		
										Functions: Neurosurgery) according to current requirements of that board who also has had pediatric		
										fellowship training (CD 10-14).		
10	10-15					1		7/1/2014		(Level I PTC) There must be one additional board-certified orthopaedic surgeon or surgeon eligible for		TYPE II
										certification by an appropriate orthopaedic board according to the current requirements of that board		
										(CD 10-15), who is identified with demonstrated interests and skills in pediatric trauma care.		
10	10-16					1		7/1/2014		(Level I PTC) There must be one additional board–certified neurosurgeon or surgeon eligible for		TYPE II
										certification by the American Board of Neurological Surgery according to the current requirements of		
										that board, who is identified with demonstrated interests and skills in pediatric trauma care (CD 10-		
										16).		
10	10-17					I		7/1/2015		There must be two physicians who are board certified or eligible for certification in critical care by the		TYPE I
		1			1					American Board of Surgery according to current requirements, or one surgeon who is board		
		1			1					eligible/certified in critical care by the ABS and one physician who is board eligible or certified by the		
										American Board of Pediatrics in pediatric critical care according to current requirements.		

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10	10-17					1		7/1/2014	New	There must be two physicians who are board certified or eligible for certification in pediatric critical	*	TYPE I
										care medicine, according to current requirements in in pediatric critical care medicine: or in pediatric		
										surgery and surgical critical care by the American Board of Surgery (CD 10-17).		
10	10-18					I		7/1/2015		There must be two physicians who are board certified or eligible for certification by an appropriate		TYPE I
										emergency medicine board according to current requirements in pediatric emergency medicine or		
										board certified or eligible for certification by the appropriate pediatrics board according to current		
										requirements in pediatric emergency medicine		
10	10-18					1		7/1/2014	New	There must be two physicians who are board certified or eligible for certification by an appropriate	*	TYPE II
								.,_,		emergency medicine board according to current requirements in pediatric emergency medicine (CD 10-		
	10.10									18).		
10	10-19					1		7/1/2014		The pediatric intensive care unit must be staffed by individuals credentialed by the hospital to provide		TYPE II
10	10 15						"	//1/2014		pediatric trauma care in their respective areas (CD 10-19).		
10	10-20						Ш	7/1/2014		The pediatric section of the emergency department (CD 10-20) must be staffed by individuals	*	TYPE II
10	10-20					1	"	//1/2014				TTPEII
10	10-21					-	Ш	7/1/2014		credentialed by the hospital to provide pediatric trauma care in their respective areas.	*	TYPE I
10	10-21						11	7/1/2014		In a Level II pediatric trauma center, there must be at least one pediatric surgeon who is		TYPET
										board-certified or eligible for certification by the American Board of Surgery according to current		
						-				requirements in pediatric surgeon (CD 10-21).		
10	10-22						11	7/1/2014		There must be one surgeon who is board-certified or eligible for certification by the appropriate		TYPE II
										orthopaedic board (CD 10-22) identified with demonstrated interests and skills in pediatric trauma		
										care.		
10	10-23						П	7/1/2014		There must be one surgeon who is board-certified or eligible for certification by the appropriate		TYPE I
										neurosurgical board (CD 10-23) identified with demonstrated interests and skills in pediatric trauma		
	-									care.		
10	10-24					I		10/1/2015		In a Level I pediatric trauma center, the pediatric trauma medical director should be board certified or		TYPE I
										eligible for certification by the American Board of Surgery according to current requirements for		
										pediatric surgery (CD 10–24).		
10	10-24					I		7/1/2014	Revised	In a Level I pediatric trauma center, the pediatric trauma medical director must be board certified or	*	TYPE I
										eligible for certification by the American Board of Surgery according to current requirements for		
										pediatric surgery or alternatively, a pediatric surgeon who is a Fellow of the American College of		
										Surgeons with a special interest in pediatric trauma care, and must participate in trauma call. (CD 10-		
										24).		
10	10-24					1		10/2/2015		When the pediatric TMD is not a board certified/eligible pediatric surgeon, then this individual must		TYPE I
10	10 24							10/2/2015		be a board-certified general surgeon or general surgeon eligible for certification by the American		
										Board of Surgery according to current requirements, and must:		
										1. Be privileged by the hospital to provide pediatric trauma care,		
										2. Be a member of the adult trauma panel		
										3. Participate in trauma call		
										4. Accrue an average of 12 hr annually or 36 hours in 3 years of verifiable external CME, of which at		
										least 8 hours (in 3 years) must be related to clinical pediatric trauma care		
										5. Be current in PALS or have taken the Society of Critical Care Medicine Fundamentals of Pediatric		
										Critical Care course.		
										6. Formal relationship with a pediatric TMD at another verified level I PTC.		
10	10-25						П	7/1/2014	New	In a Level II pediatric trauma center, the pediatric trauma medical director should be a board-certified	*	TYPE I
									1	pediatric surgeon or a surgeon eligible for certification by the American Board of Surgery according to		1
										current requirements for pediatric surgeons. This individual must be a board-certified general surgeon		
										or a general surgeon eligible for certification by the American Board of Surgery according to current		
										requirements qualified to serve on the pediatric trauma team as defined in the following paragraph		
-						1		1	1	(CD 10–25).	1	1

Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
10	10-25						11	10/2/2015		 When the pediatric TMD is not a board certified/eligible pediatric surgeon, then this individual must be a board–certified general surgeon or general surgeon eligible for certification by the American Board of Surgery according to current requirements, and must: Be credentialed by the hospital to provide pediatric trauma care, Be a member of the adult trauma panel 		TYPE I
										 Barticipate in trauma call Accrue an average of 12 hr annually or 36 hours in 3 years of verifiable external CME, of which at least 8 hours (in 3 years) must be related to clinical pediatric trauma care Be current in PALS or have taken the Society of Critical Care Medicine Fundamentals of Pediatric 		
										Critical Care course. 6. Formal relationship with a pediatric TMD at another verified level I or II PTC.		
10	10-26					I	11	7/1/2014		When the number of pediatric surgeons on staff is too few to sustain the pediatric trauma panel, general surgeons who are board certified or eligible for certification by the American Board of Surgery according to current requirements may serve on the pediatric trauma team. In this circumstance, they must be credentialed by the hospital to provide pediatric trauma care, be members of the adult trauma panel, and be approved by the pediatric trauma medical director (CD 10-26).	3	TYPE I
10	10-27					I		7/1/2014	New	At a minimum, a Level I pediatric trauma center must have continuous rotations in trauma surgery for senior residents (Clinical PGY 3–5) who are part of an Accreditation Council for Graduate Medical Education–accredited program (CD 10–27).		TYPE I
10	10-28					I		7/1/2014	New	At a minimum, these rotations should include residency programs in all the following specialties: general surgery, orthopaedic surgery, emergency medicine, and neurosurgery. They may also include support of a pediatric surgical fellowship (CD 10-28).		TYPE I
10	10-28					I		7/1/2015		The program must have a general surgery residency and should include rotations in the other specialties.		TYPE I
10	10-29					1	11	7/1/2014		In Level I and II pediatric trauma centers, other specialists (in anesthesiology, neurosurgery, orthopaedic surgery, emergency medicine, radiology, and rehabilitation) providing care to injured children who are not pediatric-trained providers also should have sufficient training and experience in pediatric trauma care and be knowledgeable about current management of pediatric trauma in their specialty. The program must make specialty-specific pediatric education available for these specialists (CD 10-29).		TYPE II
10	10-30					I	11	7/1/2014		An organized pediatric trauma service led by a pediatric trauma medical director must be present in Level I and II pediatric trauma centers (CD 10–30).		TYPE I
10	10-31					I	II	7/1/2014	New	The pediatric trauma service must maintain oversight of the patient's management while the patient is in the intensive care unit (CD 10-31).		TYPE II
10	10-32					I	Н	7/1/2014	New	The trauma service should work collaboratively with the pediatric critical care providers, although all significant therapeutic decisions must be approved by the trauma service, and the service must be made aware of all significant clinical changes (CD 10-32).		TYPE II
10	10-33					I	II	7/1/2014	New	The surgical director who is board certified in surgical critical care of the pediatric intensive care unit must participate actively in the administration of the unit, as evidenced by the development of pathways and protocols for care of surgical patients in the intensive care unit and in unit–based performance improvement (CD 10-33).		TYPE I
10	10-33					I	Ш	7/1/2015		The surgical director of the pediatric intensive care unit should be board certified in surgical critical care.		TYPE I
10	10-34					I	II	7/1/2014	New	Pediatric surgeons or trauma surgeons with pediatric privileges must be included in all aspects of the care of injured children admitted to an intensive care unit (CD 10-34).		TYPE II
10	10-35					I	П	7/1/2014	New	Level I and II pediatric trauma centers must submit data to the National Trauma Data Bank [®] (NTDB [®]) (CD 10-35).		TYPE II

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10	10-36					1	П	7/1/2014	Revised	There must be a trauma peer review committee chaired by the pediatric trauma medical director with	*	TYPE I
										participation by the pediatric /general surgeons and liaisons from pediatric/general surgery,		
										orthopaedic surgery, neurosurgery, emergency medicine, pediatric critical care medicine, anesthesia,		
										and radiology to improve trauma care by reviewing selected deaths, complications, and sentinel events		
										with the objectives of identification of issues and appropriate responses (CD 10-36).		
10	10-37					I	Ш	7/1/2014	New	The aforementioned representatives must attend at least 50% of the trauma peer review meetings,	*	TYPE II
	10.07		-		-			10/0/2015		and their attendance must be documented (CD 10-37)		
10	10-37					I	11	10/6/2015		The liaison or representative (one pre-determined alternate) must attend the Trauma multidisciplinary peer review meeting at least 50% of the time.		TYPE II
10	10-38	1				1		7/1/2014		All pediatric and general surgeons on the pediatric trauma panel treating children must attend at least	*	TYPE II
10	10-38	1	"			1		//1/2014		50% of the trauma peer review meetings (CD 10-38).		ITPEII
10	10-39	1				1		4/13/2018	Added	In Level I and II trauma centers, the trauma medical director (TMD) must fulfill this requirement by	*	Type II
10	10 35	·						-1, 13, 2010	Added	obtaining and demonstrating a minimum of 36 hours of verifiable external trauma-related continuing		i ype ii
										medical education (CME) over a 3 year period. In Level I and II pediatric trauma centers, the pediatric		
										TMD must fulfill the same requirement, of which a quarter (9 hours) must be pediatric trauma specific.		
										(CD 5-7) Type II		
10	10-39					1	11	7/1/2014		In Level I and II pediatric trauma centers, the pediatric trauma medical director and the liaisons from		TYPE II
								, , -		neurosurgery, orthopaedic surgery, emergency medicine, and critical care medicine must each accrue		
										an average of 16 hours annually or 48 hours in 3 years of verifiable external CME, of which at least 12		
										hours (in 3 years) must be related to clinical pediatric trauma care (CD 10-39)		
10	10-40	1	11			1	11	4/26/2018	Added	Refer to Added CD 6-10	*	Type II
10	10-40	1	11			1	11	4/1/2016		Non-pediatric surgeons are caring for children must have some pediatric specific education.	*	TYPE II
10	10-40					1	11	4/1/2016		The other general surgeons, orthopaedic surgeons, neurosurgeons, emergency medicine physicians,	*	TYPE II
										and critical medicine care physicians who take trauma call in Level I and II pediatric trauma centers		
										must also have at least 4 hours of CME (annually) or an internal educational process (IEP) related to		
										clinical pediatric trauma care (CD 10-40).		
10	10-40					1	II	7/1/2014	New	The other general surgeons, orthopaedic surgeons, neurosurgeons, emergency medicine physicians,	*	TYPE II
										and critical medicine care physicians who take trauma call in Level I and II pediatric trauma centers also	1	
										must be knowledgeable and current in the care of injured patients. This requirement may be met by		
										documenting the acquisition of 16 hours of CME per year on average or by demonstrating participation		
										in an internal educational process conducted by the trauma program based on the principles of		
										practice-based learning and the PIPS program (CD 10-40).		
11	11-1	I	Ш	III		I	II	7/1/2014	Revised	Anesthesiology services are critical in the management of severely injured patients and must be		TYPE I
										available within 30 minutes for emergency operations (CD 11-1)		
11	11-2	I	II	III		I	II	7/1/2014	Revised	Anesthesiology services are critical in the management of severely injured patients and must be		TYPE I
										available within 30 minutes for managing airway problems (CD 11-2).		
11	11-3	I.	11			1	11	7/1/2014	Revised	The anesthetic care of injured patients in a Level I or II trauma center must be organized and		TYPE I
										supervised by an anesthesiologist who is highly experienced and committed to the care of injured		
										patients and who serves as the designated liaison to the trauma program (CD 11-3).		
11	11-3	I	Ш	Ш		ļ	П	7/1/2014	New	In Level I, II, and III trauma centers, a qualified and dedicated physician anesthesiologist must be		TYPE I
										designated as the liaison to the trauma program (CD 11-3)		
11	11-4	I	Ш			I	II	7/1/2014	New	Anesthesia services in Level I and II trauma centers must be available in-house 24 hours a day (CD 11-		TYPE I
44	44.5				-			7/4/2045			*	T) (D.C.
11	11-5	1	"			I	11	7/1/2015		Anesthesia requirements may be fulfilled by senior residents or CRNAs or Certified Anesthesiologist's	-	TYPE I
11	11-5	-			-	1		7/1/2014	Revised	Assistants (C-AA). When anesthesiology senior residents or CRNAs are used to fulfill availability requirements, the	*	TYPE I
11	11-5	ľ	"			1	"	//1/2014	Revised		-	ITPEI
					1					attending anesthesiologist on call must be advised, available within 30 minutes at all times, and present for all operations (CD 11-5).		
11	11-6	-			+	1		7/1/2014		The availability of anesthesia services and the absence of delays in airway control or operations must	1	TYPE II
11	11-0	'	"		1	'		//1/2014				ITPEII
					1					be documented by the hospital performance improvement and patient safety (PIPS) process (CD 11-6).		
11	11-7							7/1/2015		Anesthesia requirements may be fulfilled by senior residents or CRNAs or Certified Anesthesiologist's	*	TYPE I
•								, _,		Assistants (C-AA).		1
	1	1	1	1	1	1		1		noocante (e ray.	1	

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11	11-7			III				7/1/2014	New	In Level III hospitals, in-house anesthesia services are not required, but anesthesiologists or CRNAs	*	TYPE I
										must be available within 30 minutes (CD 11-7).		
11	11-8			III				7/1/2014		In Level III trauma centers without in-house anesthesia services, protocols must be in place to ensure	*	TYPE I
										the timely arrival at the bedside by the anesthesia provider within 30 minutes of notification and		
										request.(CD 11-8).		
11	11-9			III				7/1/2014		Under these circumstances, the presence of a physician skilled in emergency airway management must		TYPE I
										be documented (CD 11-9).		
11	11-9			Ш				12/11/2019	Revised	Under these circumstances [Level III facilities], the presence of a physician or CRNA skilled in	*	TYPE I
										emergency airway management must be documented (CD 11-9).		
11	11-6			111				7/1/2014		The availability of anesthesia services and delays in airway control or operations must be documented		TYPE II
										by the hospital PIPS process (CD 11-6).		
11	11-10	1	11			1	11	7/1/2014		All anesthesiologists taking call must have successfully completed an anesthesia residency program (CD		TYPE I
										11-10).		
11	11-11	1	11			1	II	7/1/2014	New	Furthermore, in Level I and II trauma centers, anesthesiologists taking call must be currently board	*	TYPE I
										certified in anesthesiology (CD 11-11).		
11	6-3	1	II			1	II	7/1/2016		Alternate Criteria (CD 6-3) for Non–Board–Certified Anesthesiologist in Level I and II Trauma Centers.	*	TYPE II
11	11-11	1	11			1	11	7/1/2015		Only the anesthesiologist liaison must be currently board certified.		TYPE I
11	11-11							7/1/2015		In Level III, where CRNAs are licensed to practice independently may function as the anesthesia liaison.		TYPE I
								, ,		· · · · · · · · · · · · · · · · · · ·		
11	11-11	1	11			1		7/1/2014	New	Board certification or eligibility for certification is essential for anesthesiologists who take trauma call	*	TYPE I
						·		,, _, _, _, _, ,		in Level I and II trauma centers (CD 11-11).		
11	11-11	1	11	Ш	+	1		6/1/2016		Changed from a Type I criterion deficiency to a Type II		TYPE II
11	11-12					ti		7/1/2014		In Level I, II, and III trauma centers participation in the trauma PIPS program by the anesthesia liaison is	1	TYPE II
11	11 12	1				ľ		//1/2014		essential (CD 11-12).		
11	11-13	1				1		7/1/2014		The anesthesiology liaison to the trauma program must attend at least 50 percent of the	*	TYPE II
11	11-13	1				'	"	//1/2014		multidisciplinary peer review meetings, with documentation by the trauma PIPS program (see Chapter		11561
										16, Performance Improvement and Patient Safety) (CD 11-13).		
11	11-13				-			12/11/2019	Revised	In Level III trauma centers, a dedicated physician anesthesiologist or anesthesia clinician must be	*	TYPE II
11	11-15							12/11/2019	Reviseu			ITPEII
										designated as the liaison to the trauma program and the anesthesia representative must attend at		
11	11 12	1.			+	1.		10/0/2015	-	least 50 percent of the multidisciplinary peer review meetings.	*	
11	11-13	1	11	111		1	11	10/6/2015		The liaison or representative (one pre-determined alternate) must attend the Trauma multidisciplinary	Ŧ	TYPE II
								= / . /		peer review meeting at least 50% of the time.		-
11	11-14	I	II			1		7/1/2014	New	An operating room must be adequately staffed and available within 15 minutes at Level I and II trauma		TYPE I
				-				- 1. 1		centers (CD 11-14).		
11	11-15	I	II			1	11	7/1/2014	New	In Level I and II trauma centers, if the first operating room is occupied, an adequately staffed additional		TYPE II
			_	-					_	room must be available (CD 11-15).		_
11	11-16	I	11			1	11	7/1/2014		Availability of the operating room personnel and timeliness of starting operations must be		TYPE II
										continuously evaluated by the trauma PIPS process and measures must be implemented to ensure		
										optimal care (CD 11-16).		
11	11-17			Ш				7/1/2014		In Level III trauma centers, an operating room must be adequately staffed and available within 30		TYPE I
										minutes (CD 11-17).		_
11	11-18			ш				7/1/2014		If an on-call team is used, the availability of operating room personnel and the timeliness of starting		TYPE II
										operations must be continuously evaluated by the trauma PIPS process, and measures must be		
										implemented to ensure optimal care (CD 11-18).		
11	11-19	I	11	III		I	П	7/1/2014		Level I, II, and III trauma centers should have the necessary operating room equipment for the patient		TYPE I
							1			populations they serve. All trauma centers must have rapid fluid infusers, thermal control equipment		1
							1			for patients and resuscitation fluids, intraoperative radiologic capabilities, equipment for fracture		1
										fixation, and equipment for bronchoscopy and gastrointestinal endoscopy (CD 11-19).		
11	11-20	I	Ш		1	I	Ш	7/1/2014		Level I and II trauma centers must have the necessary equipment to perform a craniotomy (CD 11-20)		TYPE I
11	11-20			111	-			7/1/2014	1	Level III trauma centers that provide neurosurgical services must have the necessary equipment to		TYPE II
							1			perform a craniotomy (CD 11-20). Only Level III trauma centers that do not offer neurosurgery services		1
			1				1			are not required to have craniotomy equipment.		1

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11	11-21	I				1		7/1/2014	New	Level I trauma centers must have cardiothoracic surgery capabilities		TYPE II
										available 24 hours per day and should have cardiopulmonary bypass equipment (CD 11-21).		
11	11-22	I	П			I		7/1/2014	New	In Level I and Level II trauma centers, if cardiopulmonary bypass equipment is not immediately		TYPE II
										available, a contingency plan, including immediate transfer to an appropriate center and 100 percent		
										performance improvement review of all patients transferred, must be in place (CD 11-22).		
11	11-23	1				1		7/1/2014		Level I trauma centers must have an operating microscope available 24 hours per day (CD 11-23).		TYPE II
11	11-24	1	11	III		1	11	7/1/2014		At Level I, II, and III trauma centers, a PACU with qualified nurses must be available 24 hours per day to		TYPE I
										provide care for the patient if needed during the recovery phase (CD 11-24).		
11	11-25	1	11	III		1	11	7/1/2014		If this availability requirement is met with a team on call from outside the hospital, the availability of		TYPE II
										the PACU nurses and compliance with this requirement must be documented by the PIPS program (CD		
										11-25).		
11	11-26	1	11	III		1	11	7/1/2014		The PACU must have the necessary equipment to monitor and resuscitate patients, consistent with the		TYPE I
										process of care designated by the institution (CD 11-26).		
11	11-27	1	П	111		I	11	7/1/2014		The PIPS program, at a minimum, must address the need for pulse oximetry, end-tidal carbon dioxide		TYPE II
										detection, arterial pressure monitoring, pulmonary artery catheterization, patient rewarming, and		
										intracranial pressure monitoring (CD 11-27).		
11	11-32	1	11	Ш		1	11	7/1/2014		In Level I, II, and III trauma centers, qualified radiologists must be available within 30 minutes in person		TYPE I
								.,_,		or by teleradiology for the interpretation of radiographs. (CD 11-32)		
11	11-33	1	11			1	11	7/1/2014	New	In Level I and II trauma centers gualified radiologists must be available within 30 minutes to perform	*	TYPE II
								.,_,		complex imaging studies, or interventional procedures (CD 11-33).		
11	11-34	1		ш		1	Ш	7/1/2014		In Level I, II, and III trauma centers diagnostic information must be communicated in a written or		TYPE II
	11 34	ľ						,,1,2014		electronic form and in a timely manner (CD 11-34).		
11	11-35	1		ш		1	ш	7/1/2014		Critical information deemed to immediately affect patient care must be verbally communicated to the		TYPE II
	11 55	ľ				'		//1/2014		trauma team in a timely manner (CD 11-35).		
11	11-36	1		ш		1	ш	7/1/2014		The final report must accurately reflect the chronology and content of communications with the		TYPE II
11	11 50	ľ				'		//1/2014		trauma team, including changes between the preliminary and final interpretations (CD 11-36).		
11	11-37	1		ш		1	ш	7/1/2014		Changes in interpretation between preliminary and final reports, as well as missed injuries, must be	*	TYPE II
11	11 57	ľ						//1/2014		monitored through the PIPS program (CD 11-37).		
11	11-38	1				1	ш	7/1/2014		In Level I and II facilities, a radiologist must be appointed as liaison to the trauma program (CD 11-38).	*	TYPE II
11	11-30	1	"			'	"	//1/2014				1111
11	11-39	1				1		7/1/2014	New	The radiologist liaison must attend at least 50 percent of peer review meetings and should educate and	*	TYPE II
11	11-33	1				1		//1/2014	New	guide the entire trauma team in the appropriate use of radiologic services (CD 11-39).		1111
11	11-39	1				1	ш	10/6/2015		The liaison or representative (one pre-determined alternate) must attend the Trauma multidisciplinary	*	TYPE II
11	11-39	'	"			1		10/0/2015		peer review meeting at least 50% of the time.		TTPET
11	11-40	-				1		7/1/2014	New	In Level I and II trauma centers, participation in the trauma PIPS program process by radiologists is		TYPE II
11	11-40	1	"			1		//1/2014	New	essential (CD 11-40).		TTPET
11	11-41	-						7/1/2014		At a minimum, radiologists must be involved in protocol development and trend analysis that relate to	*	TYPE II
11	11-41	ľ	"			1	"	//1/2014		diagnostic imaging (CD 11-41).		TTPEII
11	11-42	1						7/1/2014	New	Level I and II facilities must have a mechanism in place to view radiographic imaging from referring	*	TYPE II
11	11-42	1				1		//1/2014	New	hospitals within their catchment area (CD 11-42).		TTPEII
11	11-43	1						7/1/2014	New	Board certification or eligibility for certification by the current standard requirements is essential for		TYPE II
11	11-45	1				1		//1/2014	New	radiologists who take trauma call in Level I and II trauma centers (CD 11-43).		TTPEII
11	11-43	-						7/1/2015		The radiologists liaison must be currently board certified.	*	TYPE II
11 11	11-43	1	 	ш				7/1/2013				TYPE II
11	11-28	ľ	"			1	"	//1/2014		The trauma center must have policies designed to ensure that trauma patients who may require resuscitation and monitoring are accompanied by appropriately trained providers during		TTPEII
11	11-29	-		Ш	11/			7/1/2014	New	transportation to, and while in, the radiology department (CD 11-28). Conventional radiography must be available in all trauma centers 24 hours per day (CD 11-29).	+	TYPE I
11 11	11-29				IV	<u> </u>			New			TYPE I
11	11-30	ľ	"			'	"	7/1/2014		Computed tomography (CT) must be available in Levels I, II, and III trauma centers 24 hours per day (CD 11-30)	1	TTPET
11	11 21	-				<u> </u>		7/1/2014				TYPE I
11	11-31	1	11			1	"	7/1/2014		An in-house radiology technologist and CT technologist are required at Level I and II trauma centers		TTPET
11	11 47			ш		-		7/1/2014		(CD 11-31).		
TT	11-47			1				7/1/2014		In Level III centers, if the CT technologist takes call from outside the hospital, the PIPS program must		TYPE II
						1				document the technologist's time of arrival at the hospital (CD 11-47).		

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11	11-44	I	II			I	П	7/1/2014	Revised	Interventional radiologic procedures and sonography must be available 24 hours per day at Level I and		TYPE I
										II trauma centers (CD 11-44).		
11	11-45	I	II			I	II.	7/1/2014	New	Magnetic resonance imaging (MRI) capability must be available 24 hours per day at Level I and II		TYPE II
										trauma centers (CD 11-45).		
11	11-46	I.	II			1	II.	7/1/2014	New	The MRI technologist may respond from outside the hospital; however, the PIPS program must		TYPE II
										document and review arrival within 1 hour of being called. This time should meet current clinical		
										guidelines (CD 11-46).		
11	11-48					I		7/1/2015		The surgical director of the pediatric intensive care unit should be board certified in surgical critical	*	TYPE I
										care.		
11	11-48	1				I		7/1/2014		In a Level I trauma center, a surgically directed ICU physician team must be led by a surgeon boarded ir	ı	TYPE I
										surgical critical care, and critically ill trauma patients should be cared for in a designated ICU (CD 11-		
										48).		
11	11-49					1		7/1/2015		The surgical director of the pediatric intensive care unit should be board certified in surgical critical	*	TYPE I
								.,_,		care.		
11	11-49	1						7/1/2014	Revised	A surgeon with current board certification in surgical critical care must be designated as the ICU	*	TYPE II
	11 45							,,1,2014	neviseu	director (CD 11-49).		
11	11-49	1				1		7/1/2014	New	The ICU team may be staffed by critical care physicians from different specialties but must remain	1	TYPE II
11	11 45	•						//1/2014	INC W	surgically directed as noted above (CD 11-49).		
11	11-50	1						7/1/2014	New	The ICU must be staffed with a dedicated ICU physician team led by the ICU director (CD 11-50).		TYPE II
11	11-50		-	-		-		7/1/2014	New	Appropriately trained physicians must be available in-house within 15 minutes to provide care for the		TYPEI
11	11-21	I				'		//1/2014				ITPET
								7/1/2211		ICU patients 24 hours per day (CD 11-51).		-
11	11-52	I				1		7/1/2014	New	[Level I] If the trauma attending provides coverage, a backup ICU attending must be identified and		TYPE II
										readily available (CD 11-52).		
11	11-53		11	ш			11	7/1/2014		In Level II and III trauma centers, a surgeon must serve as co-director or director of the ICU and be		TYPE II
										actively involved in, and responsible for, setting policies and administrative decisions related to trauma	a	
										ICU patients (CD 11-53).		
11	11-54		11	111				7/1/2014	New	In Level II and III facilities, the ICU director or co-director must be a surgeon who is currently board	*	TYPE II
										certified or eligible for certification by the current standard requirements [in General Surgery] (CD 11-		
										54).		
11	11-55		П				11	7/1/2014		In Level II trauma centers, physician coverage of critically ill trauma patients must be available within		TYPE I
										15 minutes 24 hours per day for interventions by a credentialed provider (CD 11-55).		
11	11-56			Ш				7/1/2014		In Level III trauma centers, physician coverage of the ICU must be available within 30 minutes, with a		TYPE I
										formal plan in place for emergency coverage (CD 11-56).		
11	11-57			III				7/1/2014	New	In Level III trauma centers, the PIPS program must review all ICU admissions and transfers of ICU		TYPE II
										patients to ensure that appropriate patients are being selected to remain at the Level III center vs.		
										being transferred to a higher level of care (CD 11-57).		
11	11-58	1	11			1	11	7/1/2014		In Level I, II, and III trauma centers, the trauma surgeon must retain responsibility for the patient and		TYPE I
								, , -		coordinate all therapeutic decisions (CD 11-58).		
11	11-59	1	11	Ш		1	Ш	7/1/2014		Many of the daily care requirements can be collaboratively managed by a dedicated ICU team, but the		TYPE I
								,,_,_,_,		trauma surgeon must be kept informed and concur with major therapeutic and management decisions		
										made by the ICU team (CD 11-59).		
11	11-60	1	U.		IV	1		7/1/2014	New	For all levels of trauma centers, the PIPS program must document that timely and appropriate ICU care		TYPE II
11	11 00							//1/2014	INC W	and coverage are being provided (CD 11-60).		
11	11-60	1				1		7/1/2014	New	In all Level I, II, and III trauma centers, the timely response of credentialed providers to the ICU must be		TYPE II
11	11-00	1				1		//1/2014	New	continuously monitored as part of the PIPS program (CD–11-60).	=	TTPEI
11	11 (1							7/1/2014	New			
<u>11</u> 11	11-61 11-62				+			7/1/2014 7/1/2014	New New	[Level I, II and III] There must be a designated ICU liaison to the trauma service (CD 11-61). The [ICU] liaison must attend at least 50 percent of the multidisciplinary peer review meetings, with	*	TYPE II TYPE II
11	11-02	'	"	1	1	1	"	//1/2014	New		-4-	ITPE II
11	11.00	-			-	<u> </u>		10/0/2015		documentation by the trauma PIPS program (CD 11-62).	, *	TD\/5 !!
11	11-62		"	111			11	10/6/2015		The liaison or representative (one pre-determined alternate) must attend the Trauma multidisciplinary	^	TPYE II
		+				- <u> </u>		1 /0 c /0 - · -		peer review meeting at least 50% of the time.	+	
11	11-63	1				1		4/26/2018	Added	Refer to Added CD 6-10		Type II
11	11-63	1	Ш	1	1	1	Ш	7/1/2014	New	The ICU liaison to the trauma program at Level I and II centers must accrue an average of 16 hours	*	TYPE II
				1	1					annually or 48 hours in 3 years of verifiable external trauma-related continuing medical education		
		1		1	1	1				(CME) (CD 11-63).	1	

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11 11	11-63	I	II			I	11	4/26/2018	Added	Refer to Added CD 6-10	*	Type II
11	11-64	1	II			I.	П	7/1/2014	New	This requirement must be documented by the acquisition of 16 hours of trauma CME per year, on	*	TYPE II
										average, or through an internal educational process conducted by the trauma program and the ICU		
										liaison based on the principles of practice–based learning and the PIPS program (CD 11-64).		
11	11-65	1	II	Ш		I	11	7/1/2014		At Level I, II, and III trauma centers, qualified critical care nurses must be available 24 hours per day to		TYPE I
										provide care for patients during the ICU phase (CD 11-65).		
11	11-66	I	11	111		1	11	7/1/2014		The patient-to-nurse ratio in the ICU must not exceed two to one (CD 11-66).		TYPE II
11	11-67	I	11	111		1	11	7/1/2014		The ICU must have the necessary equipment to monitor and resuscitate patients (CD 11-67).		TYPE I
11	11-68	I	Ш	111*		I	П	7/1/2014		Intracranial pressure monitoring equipment must be available in Level I and II trauma centers for neurotrauma patients (CD 11-68).		TYPE I
11	11-68			111*				7/1/2014		Intracranial pressure monitoring equipment must be available in Level III trauma centers with		TYPE I
										neurosurgical coverage that admit neurotrauma patients (CD 11-68).		
11	11-69			III				7/1/2014	New	Trauma patients must not be admitted or transferred by a primary care physician without the		TYPE II
										knowledge and consent of the trauma service, and the PIPS program should monitor adherence to this guideline (CD 11-69).		
11	11-70	1				1		7/1/2014		Level I facilities are prepared to manage the most complex trauma patients and must have available a	*	TYPE I
								.,_,		full spectrum of surgical specialists, including specialists in orthopaedic surgery, neurosurgery, cardiac		
										surgery, thoracic surgery, vascular surgery, hand surgery, microvascular surgery, plastic surgery,		
										obstetric and gynecologic surgery, ophthalmology, otolaryngology, and urology (CD 11-70).		
11	11-71		11				11	7/1/2014	Revised	Level II centers must have the surgical specialists described for Level I trauma centers and should	*	TYPE I
11	11 / 1							//1/2014	neviseu	provide cardiac surgery (CD 11-71). [Level I facilities must have specialists in orthopaedic surgery,		
										neurosurgery, thoracic surgery, vascular surgery, hand surgery, microvascular surgery, plastic surgery,		
										obstetric and gynecologic surgery, ophthalmology, otolaryngology, and urology.		
11	11-72							7/1/2015		The expectation is that Level I and II trauma centers will have the listed specialties other than burns		
11	11-72							//1/2015		and replantation in which case a transfer agreement (CD 8-5) must be in place.		
11	11-72							7/1/2014		Level III trauma centers must have the availability and commitment of orthopaedic surgeons (CD 11-		TYPE I
11	11-72							//1/2014		72).		TTPET
11	11-71							7/1/2015		The expectation is that Level I and II trauma centers will have the listed specialties other than burns		
11	11-/1	'						//1/2015		and replantation in which case a transfer agreement (CD 8-5) must be in place.		
11	8-5							7/1/2014	New	For all patients being transferred for specialty care, such as burn care, microvascular surgery,	*	TYPE II
11	0-3	1	11			1	11	//1/2014	New	cardiopulmonary bypass capability, complex ophthalmologic surgery, or high–complexity pelvic		ITPEII
										fractures, agreements with a similar or higher–qualified verified trauma center should be in place. If		
										this approach is used, a clear plan for expeditious critical care transport, follow–up, and performance		
										monitoring is required (CD 8-5). If complex cases are being transferred out, a contingency plan should		
										be in place and must include the following:		
										• A credentialing process to allow the trauma surgeon to provide initial evaluation and stabilization of		
										the patient.		
										 Transfer agreements with similar or higher-verified trauma centers. 		
										• Direct contact with the accepting facility to arrange for expeditious transfer or ongoing monitoring		
										support.		
										• Monitoring of the efficacy of the process by the PIPS programs. Ensure consistent wording through chapters.		
11	8-5	1						7/1/2015		The expectation is that Level I and II trauma centers will have the listed specialties other than burns		
										and replantation in which case a transfer agreement (CD 8-5) must be in place.		
11	11-73	1	11			1	11	7/1/2014		In Level I and II trauma centers, medical specialists on staff must include specialists in cardiology,		TYPE II
	1									internal medicine, gastroenterology, infectious disease, pulmonary medicine, and nephrology and their	1	
	1									respective support teams (for example, respiratory therapy, a dialysis team, and nutrition support)	1	
	44							7/4/2011		(CD 11-73).		7/55
11	11-75			Ш				7/1/2014	Revised	In a Level III facility, internal medicine specialists must be available on the medical staff (CD 11-74).		TYPE II
11	11-75	I	II			I	II	7/1/2014		In Level I and II trauma centers, a respiratory therapist must be available in the hospital 24 hours per day (CD 11-75).		TYPE I
		1				1				Juay (CD 11-73).	1	

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11	11-76			Ш				7/1/2014		In Level III centers, there must be a respiratory therapist on call 24 hours per day (CD 11-76).		TYPE I
11	11-77	I	1			I	11	7/1/2014	New	Acute hemodialysis must be available in Level I and II trauma centers (CD 11-77).		TYPE II
11	11-78			Ш				7/1/2014	New	Level III trauma centers that do not have dialysis capabilities must have a transfer agreement in place (CD 11-78).		TYPE II
11	11-79	1	11			1	11	7/1/2014	New	Nutrition support services must be available in Level I and II centers (CD 11-79).		TYPE II
11	11-80	I	11	111	IV	I	11	7/1/2014	New	In trauma centers of all levels, laboratory services must be available 24 hours per day for the standard		TYPE I
										analyses of blood, urine, and other body fluids, including microsampling when appropriate (CD 11-80).		
11	11-81	1	11	Ш	IV	1	11	7/1/2014	New	The blood bank must be capable of blood typing and cross-matching (CD 11-81).		TYPE I
11	11-82	I	11			I	11	7/1/2014		For Level I and II centers, the blood bank must have an adequate in-house supply of red blood cells,		TYPE I
										fresh frozen plasma, platelets, cryoprecipitate, and appropriate coagulation factors to meet the needs of injured patients (CD 11-82).		
11	11-83			III				7/1/2014	New	In Level III centers, the blood bank must have an adequate supply of packed red blood cells and fresh		TYPE I
										frozen plasma available within 15 minutes (CD 11-83).		
11	11-84	I	II	III	IV	1	11	7/1/2014	New	Trauma centers of all levels must have a massive transfusion protocol developed collaboratively		TYPE I
										between the trauma service and the blood bank (CD 11-84).		
11	11-85	I	II	Ш		I	Ш	7/1/2014		Coagulation studies, blood gas analysis, and microbiology studies must be available 24 hours per day		TYPE I
										(CD 11-85).		
11	11-86	I	II	III	IV	I	II	4/14/2016		Emergency Department midlevel/advance practitioner/physician assistant providers that function as a	*	TYPE II
										member of the team caring for trauma activation patients via assessment or interventions must be		
										current in ATLS. If the ED midlevel's only role is as a scribe or entering orders they would not need to		
										meet the ATLS requirement.		
11	11-86	1	II	III	IV	I	II	7/1/2014	New	Advanced practitioners who participate in the initial evaluation of trauma patients must demonstrate	*	TYPE II
										current verification as an Advanced Trauma Life Support [®] provider (CD 11-86).		
11	11-87	1	II	III	IV	I.	II.	7/1/2014	New	The trauma program must also demonstrate appropriate orientation, credentialing processes, and skill		TYPE II
										maintenance for advanced practitioners, as witnessed by an annual review by the trauma medical director (CD 11-87).		
12	12-1	I	II			I	II	7/1/2014		In Level I and II trauma centers, rehabilitation services must be available within the hospital's physical		TYPE II
										facilities or as a freestanding rehabilitation hospital, in which case the hospital must have transfer		
										agreements (CD 12-1).		
12	12-2	I.	II			1	II.	7/1/2014	New	Rehabilitation consultation services, occupational therapy, speech therapy, physical therapy, and social		TYPE II
										services are often needed in the critical care phase and must be available in Level I and II trauma centers (CD 12–2).		
12	12-3	I	11	111		I	11	7/1/2014		Physical therapy (CD 12-3) must be provided in Level I, II, and III trauma centers.		TYPE I
12	12-4	I	11	111		I	11	7/1/2014		Social services (CD 12-4) must be provided in Level I, II, and III trauma centers.		TYPE II
12	12-5	I	11			I	11	7/1/2014		Occupational therapy (CD 12-5) must be provided in Level I and II centers.		TYPE II
12	12-6	I	11			I	11	7/1/2014		Speech therapy (CD 12-6) must be provided in Level I and II centers.		TYPE II
12	12-7	I	Ш			I	Ш	7/1/2014		In Level I and II trauma centers, these services must be available during the acute phase of care, including intensive care (CD 12-7).		TYPE II
13	4-1	I	II	111	IV	I	II	7/1/2014	New	Direct contact of the physician or midlevel provider with a physician at the receiving hospital is essential (CD 4-1).		TYPE II
13	2-13			Ш	IV			7/1/2014	New	Transfer guidelines and agreements between facilities are crucial and must be developed after		TYPE II
										evaluating the capabilities of rural hospitals and medical transport agencies (CD 2-13).		_
13	4-3	1	11	111	IV	I	11	7/1/2014	New	All transfers must be evaluated as part of the receiving trauma center's performance improvement and patient safety (PIPS) process (CD 4-3), and feedback should be provided to the transferring center.		TYPE II
13	11-41	1	II	+	+	1	II	7/1/2014	New	Level I and II centers must be able to read images from referring centers (CD 11-41)		TYPE II
13	15-1	1	П	Ш	IV	1	П	7/1/2014	New	The foundation for evaluation of a trauma system is the establishment and maintenance of a trauma		TYPE II
_										registry (CD 15-1).		
13	16-10	I.	П	Ш	IV	1	Ш	7/1/2014	New	Issues that must be reviewed will revolve predominately around (1) system and process issues such as		TYPE II
					1	1				documentation and communication; (2) clinical care, including identification and treatment of		
										immediate life- threatening injuries (ATLS®); and (3) transfer decisions (CD 16-10).		
13	1-1	I.	П	Ш	IV	1	П	7/1/2014	New	The best possible care for patients must be achieved with a cooperative and inclusive program that		TYPE II
										clearly defines the role of each facility within the system (CD 1-1).		

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14	14-1	1	II	III	IV	I.	II	7/1/2014	New	Trauma centers that refer burn patients to a designated burn center must have in place written		TYPE II
										transfer agreements with the referral burn center (CD 14-1)		
15	15-1	I	11	111	IV	I	11	7/1/2014	New	Trauma registry data must be collected and analyzed by every trauma center (CD 15-1).		TYPE II
15	15-2	1	II	III		I	11	7/1/2014	New	Finally, these data must be collected in compliance with the National Trauma Data Standard (NTDS)		TYPE II
										and submitted to the National Trauma Data Bank® (NTDB®) every year in a timely fashion so that they		
										can be aggregated and analyzed at the national level (CD 15-2).		
15	15-3	1	П	Ш	IV	I	11	7/1/2014	New	The trauma registry is essential to the performance improvement and patient safety (PIPS) program		TYPE II
										and must be used to support the PIPS process (CD 15-3).		
15	15-4	1	П	111	IV	1	11	7/1/2014	New	Furthermore, these findings must be used to identify injury prevention priorities that are appropriate		TYPE II
										for local implementation (CD 15-4).		
15	15-5	1	11	Ш		1	11	7/1/2014	New	All trauma centers must use a risk-adjusted benchmarking system to measure performance and	*	TYPE II
								.,_,		outcomes (CD 15-5).		
15	15-5	1	iii.	Ш		1		2/1/2018	Added	Effective for visits scheduled after August 1, 2018: Participation in TQIP best meets this requirement.		TYPE II
15	10 0	ľ				ľ		2, 1, 2010	/ lauca	Other risk-adjusted benchmarking programs will be considered and must include the components		
										outlined in the CD 15-5 Requirements and Rationale document, CD 15-5 Requirements and Rationale		
										https://www.facs.org/~/media/files/quality%20programs/trauma/CD_15_5_Reqs_Rationale.ashx		
										Verified centers that are both an adult Level I or II and pediatric Level I must participate in both an		
										adult and a pediatric risk-adjusted benchmarking program in order to meet CD 15-5. Centers that are		
										verified as both an adult Level I or II and pediatric Level II must only participate in an adult risk-		
										adjusted benchmarking program in order to meet the criteria.		
15 15	15-5	I	П	Ш		I	II	11/19/2015	Added	Effective January 1, 2017 all centers must be enrolled in TQIP and/or TQIP–Peds.		TYPE II
15	15-5	1	11	111		I	11	9/16/2016	Added	Verified centers that are both an adult Level I or II and pediatric Level I, must participate in both the		Type II
										adult and the pediatric TQIP in order to meet criteria 15-5. Centers that are verified as both an adult		
										Level I or II and pediatric Level II must only participate in the adult TQIP in order to meet the criteria.		
15	15-6	I	11	111	IV	1	11	7/1/2014	New	Trauma registries should be concurrent. At a minimum, 80 percent of cases must be entered within 60		TYPE II
										days of discharge (CD 15-6)		
15	15-7	1	11	111		1	11	7/1/2014	New	[Registrar] They must attend or have previously attended two courses within 12 months of being hired	: *	TYPE II
								, , -		(1) the American Trauma Society's Trauma Registrar Course or equivalent provided by a state trauma		
										program; and (2) the Association of the Advancement of Automotive Medicine's Injury Scaling Course		
										(CD 15-7).		
15	15-8	1	11	Ш	IV	1		7/1/2014	New	The trauma program must ensure that appropriate measures are in place to meet the confidentiality	1	TYPE II
15	10 0	ľ				ľ		,,1,2014		requirements of the data (CD 15-8).		
15	15-9			111		1		7/1/2014	New	One full-time equivalent employee dedicated to the registry must be available to process the data		TYPE II
15	13-3	'				'		//1/2014	INCOV	capturing the NTDS data set for each 500–750 admitted patients annually (CD 15-9).		1166.0
10	15-10	-			11/			7/1/2014	New	Strategies for monitoring data validity are essential (CD 15-10).		TYPE II
15 16	16-1				IV	+		7/1/2014	New			TYPE II
10	10-1	1	11			1	"	//1/2014	New	Trauma centers must have a PIPS program that includes a comprehensive written plan outlining the		I YPE II
										configuration and identifying both adequate personnel to implement that plan and an operational data	1	
										management system (CD 16-1).		
16	15-1	I	11	Ш	IV	I	Ш	7/1/2014	New	The PIPS program must be supported by a reliable method of data collection that consistently obtains		TYPE II
										the information necessary to identify opportunities for improvement (CD 15-1).		
16	2-17	I	II	111	IV	I.	H .	7/1/2014	New	The processes of event identification and levels of review must result in the development of corrective		TYPE II
										action plans, and methods of monitoring, reevaluation, and benchmarking must be present (CD 2-17).		
16	16-2	1	II	III		1	II	7/1/2014	New	Problem resolution, outcome improvements, and assurance of safety ("loop closure") must be readily		TYPE II
					1				1	identifiable through methods of monitoring, reevaluation, benchmarking, and documentation (CD		
							1			16–2).		
16	16-3	I	11	Ш		I	11	7/1/2014	New	The trauma PIPS program must integrate with the hospital quality and patient safety effort and have a		TYPE II
							1			clearly defined reporting structure and method for provision of feedback (CD 16-3).		
16	2-18	1	11	Ш	IV	1	11	7/1/2014	New	Peer review must occur at regular intervals to ensure that the volume of cases is reviewed in a timely		TYPE II
10												1

	Lev	rel II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
	II		III	IV	1	II	7/1/2014	New	Because the trauma PIPS program crosses many specialty lines, it must be empowered to address		TYPE I
									events that involve multiple disciplines and be endorsed by the hospital governing body as part of its		
									commitment to optimal care of injured patients (CD 5-1).		
	П		III	IV	1	11	7/1/2014	New	There must be adequate administrative support to ensure evaluation of all aspects of trauma care (CD		TYPE I
									5–1).		
	П		III	IV	1	11	7/1/2014	Revised	The trauma medical director and trauma program manager must have the authority and be		TYPE I
									empowered by the hospital governing body to lead the program (CD 5-1).		
	Ш		Ш		1	II	7/1/2014	Revised	The trauma medical director must have sufficient authority to set the qualifications for the trauma		TYPE II
									service members, including individuals in specialties that are routinely involved with the care of the		
									trauma patient (CD 5-11).		
	П		III		I	II	7/1/2014		Moreover, the trauma medical director must have authority to recommend changes for the trauma		TYPE II
									panel based on performance review (CD 5-11).		
	П		III		1	11	7/1/2014		Mortality data, adverse events and problem trends, and selected cases involving multiple specialties		TYPE II
									must undergo multidisciplinary trauma peer review (CD 16-14)		
	Ш		III	IV	1	11	7/1/2014	New	Once an event is identified, the trauma PIPS program must be able to verify and validate that event (CD		TYPE II
									16-11).		
-	11		III		1	11	7/1/2014		There must be a process to address trauma program operational events (CD 16-12).		TYPE II
	Ш		III		1	11	7/1/2014		Documentation (minutes) reflects the review of operational events and, when appropriate, the analysis		TYPE II
									and proposed corrective actions (CD 16-13).		
-	11		Ш	IV	1	11	7/1/2014	New	Sufficient mechanisms must be available to identify events for review by the trauma PIPS program (CD		TYPE II
							, , -	-	16-10).		
			Ш		1	11	7/1/2014	New	An effective performance improvement program demonstrates through clear documentation that		TYPE II
					-		.,_,		identified opportunities for improvement lead to specific interventions that result in an alteration in		
									conditions such that similar adverse events are less likely to occur (CD 16-19).		
-			Ш		1	11	7/1/2014	New	The peer review committee must be chaired by the TMD (CD 5-25)		TYPE II
-					1		7/1/2014	i i i i i i i i i i i i i i i i i i i	In Level I, II, and III trauma centers, representation from general surgery (CD 6-8), and liaisons to the	*	TYPE II
							,, _, _0		trauma program from emergency medicine (CD 7-11), orthopaedics (CD 9-16), and anesthesiology (CD		
									11-13), critical care (CD 11-62)—and for Level I and II centers, neurosurgery (CD 8-13), and radiology		
									(CD 11-39)—must be identified and participate actively in the trauma PIPS program with at least 50		
									percent attendance at multidisciplinary trauma peer review committee. See detail under respective		
									chapters and criteria.		
			Ш		1	11	10/6/2015		The liaison or representative (one pre-determined alternate) must attend the Trauma multidisciplinary	*	TYPE II
							10/0/2015		peer review meeting at least 50% of the time.		
			Ш				7/1/2014	New	In Level III centers that do any amount of emergent neurosurgical cases must have also have		TYPE II
							,, _, _0		participation of neurosurgery in the multidisciplinary trauma peer review committee (CD 8-13).		
			Ш		1	11	7/1/2014		This effort [multidisciplinary peer review] may be accomplished in a variety of formats but must	*	TYPE II
							,, _, _0		involve the participation and leadership of the trauma medical director (CD 5–10); the group of general		
									Level 1 and it centers, CD 8-13 CD 11-39). See detail under respective chapters and chiena.		
	11		Ш		1	11	7/1/2014		Each member of the committee must attend at least 50 percent of all multidisciplinary trauma peer	*	TYPE II
							, , -				
			Ш		1	11	7/1/2014				TYPE II
					-		.,_,				
-			III	1	1	11	7/1/2014			1	TYPE II
					ľ		., _, _, _,				1
				1			1		opportunities for improvement (CD 16-17).		
			111		1	11	7/1/2014 7/1/2014 7/1/2014		 surgeons on the call panel; and the liaisons from emergency medicine, orthopaedics, neurosurgery anesthesia, critical care, and radiology (Level I, II and III, CD 6-8, CD 7-11, CD 9-16, CD 11-13, CD 11-Level I and II centers, CD 8-13 CD 11-39). See detail under respective chapters and criteria. Each member of the committee must attend at least 50 percent of all multidisciplinary trauma peer review committee meetings (CD 16-15). When these general surgeons cannot attend the multidisciplinary trauma peer review meeting, the trauma medical director must ensure that they receive and acknowledge the receipt of critical information generated at the multidisciplinary peer review meeting to close the loop (CD 16-16). The multidisciplinary trauma peer review committee must systematically review mortalities, signific complications, and process variances associated with unanticipated outcomes and determine properties for improvinge to (CD 16-13). 	-62 — er	-62 - er *

Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
16	16-6	I	Π	III		1	Π	7/1/2014	New	[A] Mortality Review (CD 16–6). All trauma–related mortalities must be systematically reviewed and those mortalities with opportunities for improvement identified for peer review. 1. Total trauma–related mortality rates. Outcome measures for total, pediatric (younger than 15 years), and geriatric (older than 64 years) trauma encounters should be categorized as follows: a. DOA (pronounced dead on arrival with no additional resuscitation efforts initiated in the emergency department), b. DIED (died in the emergency department despite resuscitation efforts), c. In–hospital (including operating room). 2. Mortality rates by Injury Severity Scale (ISS) subgroups using Table 1.	*	TYPE II
16	16-6	I	11	111		I	II	10/6/2016		Death categories as noted in the PRQ and Review Agenda: -Mortality with opportunity for improvement -Mortality without opportunity for improvement -Unanticipated Mortality with opportunity for improvement		TYPE II
16	16-6	I	II	111		I	II	8/19/2016		Death categories as noted in the PRQ and Review Agenda: —Mortality with opportunity for improvement —Mortality without opportunity for improvement —Mortality with opportunity for improvement		TYPE II
16	2-9	I	II	111	IV	I	II	7/1/2014		[B] Trauma surgeon response to the emergency department (CD 2-9). The attending surgeon's immediate (within 15 minutes) arrival for patients with appropriate activation criteria must be monitored by the hospital's trauma PIPS program (CD 2-9).		TYPE II
16	5-13	I	II	111	IV	I	II	7/1/2014		[C] Trauma team activation (TTA) criteria (CD 5-13). The criteria for a graded activation must be clearly defined by the trauma center, with the highest level of activation including the six required criteria listed in Table 2 (CD 5-13).		TYPE II
16	5-14	I	II			I	II	7/1/2014	New	[D] All Trauma Team Activations must be categorized by the level of response and quantified by number and percentage, as shown in Table 2 (CD 5-14). In Level I and II trauma centers, the highest level of activation requires the response of the full trauma team within 15 minutes of arrival of the patient, and the criteria should include physiologic criteria and some or several of the anatomic criteria (CD 5-14).		TYPE II
16	5-15			Ш	IV			7/1/2014	New	[D] All Trauma Team Activations must be categorized by the level of response and quantified by number and percentage, as shown in Table 2 (CD 5-15). In Level III and IV trauma centers the team must be fully assembled within 30 minutes (CD 5-15).		TYPE II
16	5-16	I	II	III		I	II	7/1/2014	New	[E] Trauma surgeon response time to other levels of TTA, and for back–up call response, should be determined and monitored. Variances should be documented and reviewed for reason for delay, opportunities for improvement, and corrective actions (CD 5–16)		TYPE II
16	5-16	I	II	III		I	II	7/1/2014	New	[F] Response parameters for consultants addressing time-critical injuries (for example, epidural hematoma, open fractures, and hemodynamically unstable pelvic fractures) must be determined and monitored (CD 5-16).	*	TYPE II
16	16-7	I	Н	III		I	Ш	7/1/2014	New	[G] Rates of undertriage and overtriage can be calculated after the potential cases identified have been reviewed and validated. These rates must be monitored and reviewed quarterly (CD 16-7).	*	TYPE II
16	5-18	I	II	Ш		I	11	7/1/2014		[H] Trauma patient admissions (NTDS definition) to a nonsurgical service is higher than 10 percent (Level I, II and III: CD 5-18).		TYPE II
16	9-14	1	11	111	IV	I	11	7/1/2014		[J] Acute transfers out (CD 9-14). All trauma patients who are diverted (CD 3-4) or transferred (CD 4-3) during the acute phase of hospitalization to another trauma center, acute care hospital, or specialty hospital (for example, burn center, replantation center, or pediatric trauma center) or patients requiring cardiopulmonary bypass or when specialty personnel are unavailable must be subjected to individual case review to determine the rationale for transfer, appropriateness of care, and opportunities for improvement. Follow-up from the center to which the patient was transferred should be obtained as part of the case review. See detail under respective chapters and criteria.		TYPE II
16	8-5	I	11	111	IV	I	Ш	7/1/2014		Patients being transferred out for specialty care, such as burn or replantation, a four step contingency plan must be in place. (CD 8-5 Type II).	*	TYPE II

Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
16	7-3			III				7/1/2014		[K] Emergency physicians covering in-house emergencies at Level III trauma centers (CD 7-3). It is		TYPE II
										necessary for the physician to leave the emergency department for short periods to address in-house		
										emergencies. Such cases and their frequency must be reviewed by the performance improvement and		
										patient safety (PIPS) program to ensure that this practice does not adversely affect the care of patients		
										in the emergency department (CD 7-3).		
16	3-6	1	П	III		1	11	7/1/2014	New	[L] Trauma center diversion–bypass hours must be routinely monitored, documented, and reported,		TYPE II
										including the reason for initiating the diversion policy (CD 3-6), and must not exceed 5 percent.		
16	8-6			Ш				7/1/2014		[M] Appropriate neurosurgical care at Level III trauma centers (CD 8-9).		TYPE II
16 16	11-4	1	11	Ш		1	11	7/1/2014		[N] Availability of the anesthesia service (CD 11-4, CD 11-7, CD 11-16, CD 11-18). o In-house		TYPE II
										anesthesia service (emergency department, intensive care unit, floor, and postanesthesia care unit)		
										must be available for the care of trauma patients		
										o Operating room delays involving trauma patients because of lack of anesthesia support services must		
										be identified and reviewed to determine the reason for delay, adverse outcomes, and opportunities for		
										improvement. See detail under respective chapters and criteria.		
16	11-16	1				1		7/1/2014		[O] Delay in operating room availability (CD 11-16, CD 11-18) must be routinely monitored. Any case		TYPE II
10	11-10	ľ				'		//1/2014		that is associated with a significant delay or adverse outcome must be reviewed for reasons for delay		1166.0
16	11.10	1.			-			7/1/2014	-	and opportunities for improvement. See detail under respective chapters and criteria.		
10	11-16	ľ	11			I		7/1/2014		[P] Response times of operating room and postanesthesia care unit personnel when responding from		TYPE II
										outside the trauma center (CD 11-16, CD 11-18, CD 11-25) must be routinely monitored. Any case that		
										exceeds the institutionally agreed upon response time and/or is associated with an adverse outcome		
										must be reviewed for reasons for delay and opportunities for improvement. See detail under		
										respective chapters and criteria.		
16	11-32	1	П	III		I	11	7/1/2014		[Q.] Rate of change in interpretation of radiologic studies (CD 11-32, CD 11-37) should be categorized		TYPE I
										by RADPEER or similar criteria (describe process/scoring metric used).		
16	11-29	1	П	111		I	11	7/1/2014		[R] Response times of computed tomography technologist(30 minutes)/magnetic resonance imaging		TYPE I
										(60 minutes) technologist/interventional radiology team (30 minutes) when responding from outside		
										the trauma center (CD 11-29, CD 11-30, CD 11-31, CD 11-32, CD 11-33, CD 11-34, CD 11-35, CD 11-36,		
										CD 11-37, and CD 11-46.) These times must be routinely monitored, and any case that exceeds the		
										institutionally agreed upon response time or is associated with a significant delay or an adverse		
										outcome must be reviewed for reasons for delay and opportunities for improvement. See		
										detail under respective chapters and criteria.		
16	16-9	1	11	111		1	11	7/1/2014		[T] Solid Organ donation rate (CD 16-9).		TYPE II
16	15-6	1			IV	1	11	7/1/2014		[U] Trauma registry (CD 15-6). Trauma registries should be concurrent. At a minimum, 80 percent of		TYPE II
10	10 0	ľ						,, 1, 202 .		cases must be entered within 60 days of discharge (CD 15-6)		
16	5-10	1		ш		1	П	7/1/2014		[V] Multidisciplinary trauma peer review committee attendance (Level I, II, and III CD 5-10, CD 6-8, CD 7	*	TYPE II
10	5 10	ľ						//1/2014		11, CD 9-16, CD 11-13, CD 11-62 – and for Level I and II CD 8-13 and CD 11-39). See detail under		
										respective chapters and criteria.		
16	16-8	1				1		7/1/2014	New	When an opportunity for improvement is identified, appropriate corrective actions to mitigate or		TYPE II
10	10-0	ľ				1		//1/2014	New			ITPEII
										prevent similar future adverse events must be developed, implemented, and clearly documented by		
		1.								the trauma PIPS program (CD 16-18).	*	
<u>16</u> 16	5-7	1	11		_	1	11	4/26/2018	Added	Refer to Added CD 5-7 & CD 6-10	*	Type II
16	5-7	l l	11				"	7/1/2014		In Level I and II trauma centers, the TMD (CD 5-7), trauma program manager (CD 5-24) and the liaisons	*	TYPE II
										to the trauma program in emergency medicine (CD 7-12), orthopaedics (CD 9-18), critical care (CD 11-		
										63), and neurosurgery (CD 8-14) must obtain 16 hours annually or 48 hours in 3 years of verifiable,		
										external, trauma-related education (continuing medical education [CME] or CE as appropriate to the		
										discipline). See detail under respective chapters and criteria.		
16	15-1	I	Ш	Ш	IV	I	П	7/1/2014	New	The trauma center must demonstrate that all trauma patients can be identified for review (CD 15-1).		TYPE II
16	15-2	1	11			1	11	7/1/2014		In Level I, II, and III trauma centers, the trauma registry must submit the required data elements to the	*	TYPE II
										NTDB (CD 15-2).		
16	15-3	1	II	III	IV	1	11	7/1/2014	New	The trauma PIPS program must be supported by a registry and a reliable method of concurrent data		TYPE II
	-									collection that consistently obtains information necessary to identify opportunities for improvement		
		1		1		1				(CD 15-3).	1	

Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
15	15-5	I	II	III		I	Ш	9/16/2016		Verified centers that are both an adult Level I or II and pediatric Level I, must participate in both the	*	Type II
										adult and the pediatric TQIP in order to meet criteria 15-5. Centers that are verified as both an adult		
										Level I or II and pediatric Level II must only participate in the adult TQIP in order to meet the criteria.		
										(rv 9/16/16)		
16	15-5	1	II	III		1	H	7/1/2014	New	All trauma centers must use a risk-adjusted benchmarking system to measure performance and		TYPE II
										outcomes (CD 15-5).		
16	16-4	1	II	III		1	H	7/1/2014	New	To achieve this goal, a trauma program must use clinical practice guidelines, protocols, and algorithms		TYPE II
										derived from evidenced-based validated resources (Added CD 16-4).		
16	16-5	1	II	III	IV	1	H	7/1/2014	New	All process and outcome measures must be documented within the trauma PIPS program's written		TYPE II
										plan and reviewed and updated at least annually (CD 16-5).		
16	2-4	I.				L		7/1/2014		[A] Trauma Center Volume (CD 2-4). A Level I trauma center must admit at least 1,200 trauma patients		TYPE I
										yearly or have 240 admissions with an Injury Severity Score of more than 15. (CD 2-4).		
17	17-1	I	11	III	IV	1	11	7/1/2014	Revised	All verified trauma centers, however, must engage in public and professional education (CD 17-1).		TYPE II
17	17-2	I.	II			I	11	7/1/2014		Level I and II centers also must provide some means of referral and access to trauma center resources		TYPE II
										(CD 17-2).		
17	17-3	I.						7/1/2014		At a minimum, a Level I trauma center must have continuous rotations in trauma surgery for senior	*	TYPE I
										residents (Clinical PGY 4-5) that are part of an Accreditation Council for Graduate Medical		
										Education-accredited program (CD 17-3).		
17	10-27					I		7/1/2014		For pediatric Level I centers, the continuous rotation for surgical residents is extended to include		TYPE I
										clinical PGY 3 (CD 10-27).		
17	17-4	I	Ш	Ш		I	II	7/1/2014		In Level I, II, and III trauma centers, the hospital must provide a mechanism to offer trauma-related		TYPE II
										education to nurses involved in trauma care (CD 17–4).		
17	6-10	I	11			1	11	4/26/2018	Added	Effective immediately, in Level I and II trauma centers, trauma surgeons, pediatric surgeons and the	*	11
										specialty panel members (emergency medicine, orthopaedic surgery, neurosurgery and ICUs)		
										participating on the trauma call panel must demonstrate evidence of ongoing trauma related		
										education. (CD 6-10) Type II		
17	6-10	1	11	III	IV	1	11	7/1/2014	New	The successful completion of the ATLS [®] course, at least once, is required in all levels of trauma centers		TYPE II
										for all general surgeons (CD 6-10), emergency medicine physicians (CD 7-14) and midlevel providers		
										(CD 11-86) on the trauma team (CD 17-5).		
17	17-5							7/1/2014		CD 17-5 Error in sequence		TYPE II
17	5-7	1	11			1	11	4/26/2018	Added	In Level I and II trauma centers, the trauma medical director (TMD) must fulfill this requirement by	*	11
	-							, , -,		obtaining and demonstrating a minimum of 36 hours of verifiable external trauma-related continuing		
										medical education (CME) over a 3 year period. In Level I and II pediatric trauma centers, the pediatric		
										TMD must fulfill the same requirement, of which 9 hours must be pediatric trauma specific. CD 5-7/CD		
										10-39 Type II		
17	5-7	1	11			1	11	7/1/2014		The trauma director (CD 5-7) and the liaison representatives from neurosurgery (CD 8-14), orthopaedic	*	TYPE II
	5,					1		,, _, _, _, _, .		surgery (CD 9-18), emergency medicine (CD 7-12), and critical care (CD 11-63) must accrue an average		
										of 16 hours annually, or 48 hours in 3 years, of external trauma–related CME.		
17	6-11	1				1	П	7/1/2014		Other members of the general surgery (CD 6-11), neurosurgery (CD 8-15), orthopaedic surgery (CD 9-		TYPE II
17	0-11	'	"			1		//1/2014		19), emergency medicine (CD 7-13), and critical care (CD 11-64) specialties who take trauma call also		117 - 11
										must be knowledgeable and current in the care of injured patients.		
18	18-2	1		Ш	IV	1		7/1/2014	New	Each trauma center must have someone in a leadership position that has injury prevention as part of		TYPE II
10	10-2	'			10			//1/2014	INEW	his or her job description (CD 18-2)		117 - 11
18	18-2							7/1/2014	Revised	In Level I centers, this individual must be a prevention coordinator (separate from the trauma program		TYPE II
10	10-2	1				1		//1/2014	Reviseu			ITPEII
18	18-1	-		Ш	IV	1		7/1/2014	New	manager) with a job description and salary support (CD 18-2). Trauma centers must have an organized and effective approach to injury prevention and must	-	TYPE II
10	10-1	1			IV	'	11	//1/2014	New			ITPEII
18	18-3	-			IV	-		7/1/2014	Nour	prioritize those efforts based on local trauma registry and epidemiologic data (CD 18-1).	*	TYPE II
18	18-3	1	11		IV	1	11	7/1/2014	New	Universal screening for alcohol use must be performed for all injured patients and must be		I YPE II
10	10.2	-			11.7	-		7/1/2011	ا بالداد م	documented (CD 18-3)	*	TV05 !!
18	18-3			Ш	IV	ľ	"	7/1/2014	Added	Universal screening for alcohol use must be performed for a minimum of 80% of injured patients, and	*	TYPE II
4.0	40.5	-		+		-l		7/4/2011		must be documented (CD 18-6).	ىد	TV25
18	18-4	ľ	П			ľ	Ш	7/1/2014	New	At Level I and II trauma centers, all patients who have screened positive must receive an intervention	*	TYPE II
		1				1			1	by appropriately trained staff, and this intervention must be documented (CD 18-4).	1	

Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
18	18-4	I	П			I	II	7/1/2014	Added	At Level I and II trauma centers, a minimum of 80% of patients who have screened positive must	*	TYPE II
										receive an intervention by appropriately trained staff, and this intervention must be documented (CD 18-4).		
18	18-5	1	II			1	II	7/1/2014	New	Level I and II trauma centers must implement at least two programs that address one of the major	*	TYPE II
										causes of injury in the community (CD 18-5).		
18	18-6	I	11			I	II	7/1/2014	New	A trauma center's prevention program must include and track partnerships with other community		TYPE II
										organizations (CD 18-6).		
19	19-1	1				I		7/1/2014		For a Level I trauma center, at a minimum, a program must have 20 peer-reviewed articles published	*	TYPE II
										in journals included in Index Medicus or PubMed in a 3-year period (CD 19-1).		
19	19-2	I				I		7/1/2014		These publications must result from work related to the trauma center or the trauma system in which	*	TYPE II
										the trauma center participates (19-2)		
19	19-3	I				I		7/1/2014		Of the 20 articles, at least one must be authored or co-authored by members of the general surgery	*	TYPE II
										trauma team (CD 19-3).		
19	19-4	I						1/22/2016		May include 1 article from Acute Care Surgery (CD 19-4).	*	TYPE II
19	19-4	I						7/1/2014		Additionally, at least one article each from three of the following disciplines is required: basic sciences,	*	TYPE II
										neurosurgery, emergency medicine, orthopaedics, radiology, anesthesia, vascular surgery,		
										plastics/maxillofacial surgery, critical care, cardiothoracic surgery, rehabilitation, and nursing (CD 19-		
										4).		
19	19-5	1	11	III	IV			7/1/2014		CD 19-5 skipped		TYPE II
19	19-6	1	11	III	IV			7/1/2014		CD 19-6 skipped		TYPE II
19	10-10					I		7/1/2014		Level I pediatric trauma centers must have identifiable pediatric trauma research. The pediatric Level I	*	TYPE II
										center's research requirement is equivalent to that of adult Level 1 trauma centers (CD 10-10).		
19	10-11	I				I		7/1/2014		In combined Level I adult and pediatric centers, half of the research requirement must be pediatric	*	TYPE II
								- 1. 1		research (CD 10-11).	*	
19	19-7	I				I		7/1/2014		In the alternate method, a Level I program must have the following (CD 19-7) a. A program must have	*	TYPE II
										10 peer–reviewed articles published in journals included in Index Medicus or PubMed in a 3–year		
										period. These articles must result from work related to the trauma center or the trauma system in		
										which the trauma center participates. Of the 10 articles, at least one must be authored or co-authored		
										by members of the general surgery trauma team, and at least one article each from three of the		
										following disciplines is required: basic sciences as related to injury, neurosurgery, emergency medicine,		
										orthopaedics, radiology, anesthesia, vascular surgery, plastics/maxillofacial surgery, critical care,		
										cardiothoracic surgery, rehabilitation, and nursing. Trauma-related articles authored by members of		
										other disciplines or work done in collaboration with other trauma centers and participation in		
										multicenter investigations may be included in the remainder. b. Of the following seven trauma-related		
										scholarly activities, four must be demonstrated: • Evidence of leadership in major trauma		
										organizations, which includes membership in trauma committees of any of the regional or national		
										trauma organizations.		
										• Demonstrated peer-reviewed funding for trauma research from a recognized government or private		
										agency or organization.		
										• Evidence of dissemination of knowledge that includes review articles, book chapters, technical		
										documents, Web-based publications, videos, editorial comments, training manuals, and		
										trauma-related educational materials or multicenter protocol development.		
					1	1				• Display of scholarly application of knowledge as evidenced by case reports or reports of clinical series		
					1	1				in journals included in MEDLINE.		
					1	1				• Participation as a visiting professor or invited lecturer at national or regional trauma conferences.		
										randipation as a visiting professor of invited rectarer at national of regional tradina conterences.		

Chapter	CD #	Level I	Level II	Level III	Level IV	PTC I	PTC II	Date Change	Criteria	Resources 2014 Orange Book Description of Criteria	Clarification	Туре
19	19-7	I				I		7/1/2014		CD 19-7, Continued from above		TYPE II
										• Support of resident participation in mentoring scholarly activity, including laboratory experiences;		
										clinical trials; resident trauma paper competitions at the state, regional, or national level; and other		
										resident trauma presentations.		
										• Mentorship of fellows, as evidenced by the development or maintenance of a recognized trauma,		
										critical care, or acute care surgery fellowship.		
19	19-8	1				1		7/1/2014		Finally, the administration of a Level I trauma center must demonstrate support for the research	*	TYPE II
										program by, for example, providing basic laboratory space, sophisticated research equipment,		
										advanced information systems, biostatiscal support, salary support for basic and translational		
										scientists, or seed grants for less experienced faculty (CD 19-8).		
20	20-1	I	П	Ш	IV	1	11	7/1/2014	New	Trauma centers must meet the disaster-related requirements of the Joint Commission (CD 20-1).	*	TYPE II
20	20-2	I	Ш	ш		I	П	7/1/2014		A surgeon from the trauma panel must be a member of the hospital's disaster committee (CD 20-2).	*	TYPE II
20	20-3	1	11	111	IV	1	11	7/1/2014	New	Hospital drills that test the individual hospital's disaster plan must be conducted at least twice a year,		TYPE II
										including actual plan activations that can substitute for drills (CD 20-3)		
20	20-4	I	11	Ш	IV	I	П	7/1/2014	New	All trauma centers must have a hospital disaster plan described in the hospital's policy and procedure		TYPE II
										manual or equivalent (CD 20-4).		
21	21-1	I	11	Ш		1	11	7/1/2014		The trauma center must have an established relationship with a recognized OPO (CD 21-1).		TYPE II
21	21-2	1	11	111		I	II	7/1/2014		A written policy must be in place for triggering notification of the regional OPO (CD 21-2).		TYPE II
21	16-9	1	11	111		I	II	7/1/2014		The trauma center must review its organ donation rate annually (CD 16-9).		TYPE II
21	21-3	I	П	Ш	IV	I	П	7/1/2014	New	It is essential that each trauma center (Levels I, II, III, and IV) have written protocols defining the clinica	al	TYPE II
										criteria and confirmatory tests for the diagnosis of brain death (CD 21-3).		

Disclaimers:

Example #1: CD 1-1 is a new criteria for Level IV Trauma Centers only Example #2: CD 2-1 is a new criteria for all Trauma Centerlevels Example #2: CD 16-10 is a new criteria for all Trauma Centerlevels Example #3: CD 16-10 is a new criteria for Level I, III, IV Trauma Centers

In the Criteria column the following selections are defined as: Blank - are cross overs from 1999 and/or 2006 editions of the Resources Manual Revised - are cross overs from 2006 edition with some additional text

Revised - are cross overs from 2006 edition with some additional text
 New- are new criteria in the Orange book
 Added - are the most recent changes to the printed Orange book criteria effective immediately
 In the Clarification column, those with an asterisks (*) indicates there is a clarification to that requirement. For a copy of the Clarification Document, please visit: www. Facs.org.quality-programs/trauma/VRC/resources.
 Criteria listed multiple times are based on the chapter they initiated in. Refer to the individual chapter the criteria was initiated in for the criteria detail.
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