



MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES  
 BUREAU OF EMERGENCY MEDICAL SERVICES  
 TRAUMA CENTER SITE REVIEW CRITERIA CHECK SHEET – LEVEL II

19CSR 30-40.430

NAME OF HOSPITAL	LOCATION	DATE															
<b>(1) GENERAL STANDARDS FOR TRAUMA CENTER DESIGNATION 19 CSR 30-40.430 (1)</b>																	
1. Board resolution to demonstrate commitment to trauma care by committing the hospital's resources to: <ul style="list-style-type: none"> <li>a. Policy/procedures</li> <li>b. Priority admission for trauma patient</li> <li>c. Agrees to accept all trauma patients, regardless of sex, creed or ability to pay</li> <li>d. Hospital Trauma program shall provide the trauma team with appropriate experience to maintain skill/proficiency in the care of trauma patients, includes continuing education</li> </ul>	<table border="0"> <tr> <td>MET</td> <td>NOT MET</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	MET	NOT MET	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMMENTS					
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2. Lighted helicopter pad, cordoned off, no more than 3 minutes from the ED	<table border="0"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>														
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3. Trauma Medical Director <ul style="list-style-type: none"> <li>a. Board certified surgeon</li> <li>b. Job description and organizational chart depicting the relationship between the trauma medical director and the other services</li> <li>c. Member of the surgical trauma call roster</li> <li>d. Responsible for education/training of the medical and nursing staff in trauma care</li> <li>e. Document 16 hours of trauma-related CME every year</li> </ul>	<table border="0"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
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4. Trauma Nurse Coordinator <ul style="list-style-type: none"> <li>a. Job description and organizational chart depicting the relationship between the trauma nurse coordinator and the other services</li> <li>b. Document a minimum of 24 hours of continuing nursing care in trauma care every year</li> </ul>	<table border="0"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
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5. Surgical Trauma Call Roster <ul style="list-style-type: none"> <li>a. At the time of initial review, all members of surgical trauma call shall be ATLS certified or be registered for a provider course</li> <li>b. Documented a minimum of 8 hours of CME in trauma care every year.</li> <li>c. If adult/pediatric centers an additional 6 hours of pediatric trauma education must be included</li> </ul>	<table border="0"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
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6. Demonstrated adequate post-discharge follow-up on trauma patients, including rehabilitation, when applicable, discharge summaries to attending physicians, and documentation in the medical record	<table border="0"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>														
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7. Missouri Trauma Registry	<table border="0"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>														
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8. Trauma Team Activation Protocol <ul style="list-style-type: none"> <li>a. Establishes criteria used to rank severity and type of injury and identifies the persons authorized to notify trauma team members when a major trauma is in route or has arrived at the trauma center</li> <li>b. Shall have a plan to notify tissue and/or organ procurement organizations and cooperate in the procurement of anatomical gifts</li> </ul>	<table border="0"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
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9. Hospital Organization Standards <ul style="list-style-type: none"> <li>a. Delineation of privileges by the medical staff credentialing committee</li> <li>b. All members of the surgical trauma call roster shall comply with availability and response requirements</li> <li>c. Physicians who are board certified or board admissible shall be on trauma center staff:               <table border="0" style="margin-left: 20px;"> <tr> <td><input type="checkbox"/> Cardiac Surgery</td> <td><input type="checkbox"/> Orthopedic Surgery</td> <td><input type="checkbox"/> Urologic Surgery</td> </tr> <tr> <td><input type="checkbox"/> General Surgery</td> <td><input type="checkbox"/> Otorhinolaryngologic Surgery</td> <td><input type="checkbox"/> Plastic, Oral Maxillofacial Surgery</td> </tr> <tr> <td><input type="checkbox"/> Neurologic Surgery</td> <td><input type="checkbox"/> Pediatric Surgery</td> <td><input type="checkbox"/> Thoracic Surgery</td> </tr> </table> </li> </ul>	<input type="checkbox"/> Cardiac Surgery	<input type="checkbox"/> Orthopedic Surgery	<input type="checkbox"/> Urologic Surgery	<input type="checkbox"/> General Surgery	<input type="checkbox"/> Otorhinolaryngologic Surgery	<input type="checkbox"/> Plastic, Oral Maxillofacial Surgery	<input type="checkbox"/> Neurologic Surgery	<input type="checkbox"/> Pediatric Surgery	<input type="checkbox"/> Thoracic Surgery	<table border="0"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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NAME OF HOSPITAL	LOCATION	DATE
<b>(1) GENERAL STANDARDS FOR TRAUMA CENTER DESIGNATION (CON'T) 19 CSR 30-40.430 (1)</b>		
<input type="checkbox"/> Obstetric-Gynecologic Surgery <input type="checkbox"/> Ophthalmic Surgery <input type="checkbox"/> Emergency Medicine <input type="checkbox"/> Anesthesiology <input type="checkbox"/> Hematology <input type="checkbox"/> Nephrology <input type="checkbox"/> Internal Medicine <input type="checkbox"/> Pathology <input type="checkbox"/> Psychiatry <input type="checkbox"/> Radiology <p>*General surgery requirement may be fulfilled by a Senior Resident credentialed in general surgery, if the trauma surgeon is IA and in attendance            *Neurology requirement may be fulfilled by a surgeon who is credentialed by the chief of neurologic surgery and is capable of initiating measures toward stabilizing the patient and performing diagnostic procedures            *Anesthesiology requirement may be met by CRNA as long as staff anesthesiologist is IA and the CRNA is capable of assessing emergent situations, initiating care and treatment</p>	MET    NOT MET <input type="checkbox"/> <input type="checkbox"/>	COMMENTS
10. Emergency Department Standards: a. Staffing shall ensure immediate and appropriate care of the trauma patient b. Physician director shall be board certified or board admissible in emergency medicine c. Physician competent in the care of critically injured patients 24/7 d. All ED physicians shall be ATLS and ACLS certified e. ED physician shall be a designated part of the trauma team and shall document 16 hours of continuing trauma related CME yearly f. Written protocols defining the relationship of the ED physician to other physician members of the trauma team g. ED shall employ a trauma utilization assessment system. There shall be no fewer than one (1) RN on duty per shift credentialed in trauma nursing. All registered nurses regularly assigned to the ED shall be credentialed in trauma nursing by the hospital no later than one (1) year of assignment h. Registered nurses credentialed in trauma nursing shall document 8 hours of trauma related CEU per year i. By the time of the initial review, all registered nurses assigned to the ED shall have successfully completed or be registered for a provided ACLS course	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>(2) STANDARDS FOR SPECIAL FACILITIES/RESOURCES.CAPABILITIES</b>		
<b>Emergency Department</b> 1. Equipment for resuscitation and life support including but not limited to the following: (All items include pediatric sizes) <input type="checkbox"/> Airway control and ventilation equipment <input type="checkbox"/> Suction devices <input type="checkbox"/> Electrocardiograph, oscilloscope and defibrillator <input type="checkbox"/> Central line insertion equipment <input type="checkbox"/> Sterile surgical sets for procedures standard for the ED <input type="checkbox"/> Gastric lavage equipment <input type="checkbox"/> Drugs and supplies necessary for emergency care <input type="checkbox"/> Two-way radio linked with EMS vehicles <input type="checkbox"/> End-tidal CO2 monitor <input type="checkbox"/> Skeletal tongs <input type="checkbox"/> Designated trauma resuscitation area in the ED <input type="checkbox"/> Rapid infusion system for parenteral infusion <input type="checkbox"/> X-Ray capability with 24/7 coverage in-house <input type="checkbox"/> Nursing documentation shall be on a trauma flow sheet <input type="checkbox"/> All standard intravenous fluids, administration devices and IV catheters <input type="checkbox"/> Temperature control devices for patient, parenteral fluids and blood <input type="checkbox"/> Equipment checked according to hospital preventive maintenance schedule	<input type="checkbox"/> <input type="checkbox"/>	

NAME OF HOSPITAL	LOCATION	DATE
<b>(2) STANDARDS FOR SPECIAL FACILITIES/RESOURCES.CAPABILITIES (CON'T)</b>		
<b>Intensive Care (ICU)</b>	MET NOT MET	COMMENTS
2. Designated medical director for ICU	<input type="checkbox"/> <input type="checkbox"/>	
3. Physician (not ED physician) on duty in the ICU or available in in-house 24 hours a day	<input type="checkbox"/> <input type="checkbox"/>	
4. Patient classification system for ICU with nurse/patient ratio 1:2 maximum	<input type="checkbox"/> <input type="checkbox"/>	
5. Nursing care documentation on a 24- hour patient flow sheet	<input type="checkbox"/> <input type="checkbox"/>	
6. Comparable care for trauma patients if immediate space is not available in ICU	<input type="checkbox"/> <input type="checkbox"/>	
7. Registered nurses shall be credentialed in trauma care within 1 year of assignment, documenting a minimum of 8 hours of trauma related CEUs	<input type="checkbox"/> <input type="checkbox"/>	
8. At the time of initial review all registered nurses assigned to ICU shall have successfully completed or be registered for a provider ACLS	<input type="checkbox"/> <input type="checkbox"/>	
9. ICU – Equipment for resuscitation and life support including but not limited to the following: (All items include pediatric sizes) <input type="checkbox"/> Airway control and ventilation equipment <input type="checkbox"/> Oxygen source with concentration controls <input type="checkbox"/> Cardiac emergency cart <input type="checkbox"/> Temporary transvenous pacemakers <input type="checkbox"/> Electrocardiograph, oscilloscope and defibrillator <input type="checkbox"/> Cardiac output monitoring <input type="checkbox"/> Electronic pressure monitoring and pulse oximetry <input type="checkbox"/> Patient weighing devices <input type="checkbox"/> Pulmonary fuction measuring devices <input type="checkbox"/> Temperature control devices <input type="checkbox"/> Drugs, intravenous fluids and supplies <input type="checkbox"/> Intracranial pressure monitoring devices <input type="checkbox"/> Mechanical ventilator <input type="checkbox"/> End tidal CO2 monitor and mechanical ventilators <input type="checkbox"/> Documentation equipment checked according to hospital preventive maintenance schedule	<input type="checkbox"/> <input type="checkbox"/>	
<b>Post Anesthesia Care Unit</b> 10. RNs and other essential personnel on call and available within 20 minutes <input type="checkbox"/> Airway control and ventilation equipment <input type="checkbox"/> Suction devices <input type="checkbox"/> Electrocardiograph, oscilloscope and defibrillator <input type="checkbox"/> Apparatus to establish central venous pressure monitoring <input type="checkbox"/> All standard intravenous fluids <input type="checkbox"/> Sterile surgical set for emergency procedures <input type="checkbox"/> Drugs and supplies necessary for emergency care <input type="checkbox"/> Intracranial pressure monitoring devices <input type="checkbox"/> Temporary pacemaker <input type="checkbox"/> Pulmonary function measuring devices <input type="checkbox"/> Mechanical ventilator <input type="checkbox"/> Temperature control devices for the patient, for parenteral fluids and for blood <input type="checkbox"/> Documentation equipment checked according to hospital preventive maintenance schedule <input type="checkbox"/> Electronic pressure monitoring and pulse oximetry	<input type="checkbox"/> <input type="checkbox"/>	
11. Transfer agreements: <input type="checkbox"/> Hemodialysis <input type="checkbox"/> Injury rehabilitation <input type="checkbox"/> Spinal cord injury rehabilitation <input type="checkbox"/> Burn care <input type="checkbox"/> Pediatric trauma management	<input type="checkbox"/> <input type="checkbox"/>	
12. Angiography of all types	<input type="checkbox"/> <input type="checkbox"/>	
13. Adequate physician and nursing personnel to support the trauma patient and provide documentation of care during the time patient is physically present in radiology and during transportation to and from radiology	<input type="checkbox"/> <input type="checkbox"/>	
14. In-house computerized tomography with technician in-house	<input type="checkbox"/> <input type="checkbox"/>	
15. Resuscitation equipment available to radiology department	<input type="checkbox"/> <input type="checkbox"/>	

NAME OF HOSPITAL	LOCATION	DATE
<b>(2) STANDARDS FOR SPECIAL FACILITIES/RESOURCES.CAPABILITIES (CON'T)</b>		
<b>Medical/Surgical</b> 16. RNs and other essential personnel on duty 24 hours a day on medical-surgical floors Medical Surgical Floors: Equipment for resuscitation and life support for the injured patient, including but not limited to the following: (All items include pediatric sizes) <input type="checkbox"/> Airway control and ventilation, bag-mask resuscitator and O2 <input type="checkbox"/> Suction devices <input type="checkbox"/> Electrocardiograph, oscilloscope and defibrillator <input type="checkbox"/> All standard intravenous fluids and IV catheters <input type="checkbox"/> Drugs and supplies necessary for emergency care <input type="checkbox"/> Oxygen source with concentration controls <input type="checkbox"/> Documentation equipment checked according to hospital preventative maintenance schedule	MET    NOT MET  <input type="checkbox"/> <input type="checkbox"/>	COMMENTS
<b>Operating Room</b> 17. Operating room adequately staffed in-house 24 hours a day Equipment for resuscitation and to provide life support for the critically ill or seriously injured, including but not limited to the following: (All items include pediatric sizes) <input type="checkbox"/> Cardiopulmonary bypass capability <input type="checkbox"/> Operating microscope <input type="checkbox"/> Thermal control equipment <input type="checkbox"/> X-Ray capability <input type="checkbox"/> Endoscopes, all varieties <input type="checkbox"/> Instruments necessary to perform an open craniotomy <input type="checkbox"/> Monitoring <input type="checkbox"/> Equipment checked according to hospital preventive maintenance schedule	<input type="checkbox"/> <input type="checkbox"/>	
<b>Laboratory</b> 18. Written protocol that the trauma patient receives priority <input type="checkbox"/> Standard analyses of blood, urine and other body fluids <input type="checkbox"/> Blood typing and cross matching <input type="checkbox"/> Coagulation studies <input type="checkbox"/> Blood gases and pH determinations <input type="checkbox"/> Serum and urine osmolality <input type="checkbox"/> Microbiology <input type="checkbox"/> Drug and alcohol screening <input type="checkbox"/> Comprehensive blood bank or access to community central blood bank and adequate hospital blood storage facilities	<input type="checkbox"/> <input type="checkbox"/>	
<b>(3) STANDARDS FOR QUALITY ASSURANCE</b>		
1. Regular reviews of all trauma related deaths that are within seven (7) days of admission to a trauma center	<input type="checkbox"/> <input type="checkbox"/>	
2. Regular morbidity/mortality review	<input type="checkbox"/> <input type="checkbox"/>	
3. A regular multidisciplinary trauma conference that includes all members of the trauma team, with minutes of the conferences to include attendance, individual cases reviewed and findings	<input type="checkbox"/> <input type="checkbox"/>	
4. Regular medical and nursing audits, utilization reviews and tissue reviews	<input type="checkbox"/> <input type="checkbox"/>	
5. Regular reviews of reports generated by the Missouri Department of Health and Senior Services from the Missouri Trauma Registry and the Head and Spinal Cord Injury Registry	<input type="checkbox"/> <input type="checkbox"/>	
6. Regular reviews of pre-hospital and regional systems of trauma care	<input type="checkbox"/> <input type="checkbox"/>	
7. Separate quality assurance program for CRNAs by anesthesiologists	<input type="checkbox"/> <input type="checkbox"/>	
8. Public education program promotes injury prevention, public awareness	<input type="checkbox"/> <input type="checkbox"/>	
9. The hospital shall document existing or planned programs to increase public awareness of trauma prevention. These programs may be collectively presented with other hospitals and organizations	<input type="checkbox"/> <input type="checkbox"/>	

NAME OF HOSPITAL	LOCATION		DATE
<b>(3) STANDARDS FOR QUALITY ASSURANCE (CON'T)</b>			
10. Provides training and clinical resources, involved, involved in local and regional EMS systems	MET <input type="checkbox"/>	NOT MET <input type="checkbox"/>	COMMENTS
11. Hospital cooperates with EMS in conducting epidemiological studies and case studies for developing injury control and prevention programs	<input type="checkbox"/>	<input type="checkbox"/>	
12. Hospital diversions – date, length of time and reason followed by Q/I (all)	<input type="checkbox"/>	<input type="checkbox"/>	
13. There shall be a hospital approved procedure for credentialing nurses in trauma care: a. All nurses regularly assigned to the ED or ICU shall complete a minimum of 16 hours of trauma nursing courses to become credentialed in trauma care b. The content and format of any trauma nursing courses developed and offered by the hospital shall be developed in cooperation with the trauma medical director. A copy of the course curriculum shall be filed in the Bureau of EMS (TNCC or other courses offered by higher education shall suffice)	<input type="checkbox"/>	<input type="checkbox"/>	
REMARKS			

(R 03/08)