ARKANSAS STATE BOARD OF HEALTH

Section of Emergency Medical Services
And Trauma Systems

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RULES AND REGULATIONS

FOR

TRAUMA SYSTEMS

Promulgated Under the Authority of Act 559, 1993

Effective December 5, 2002
This (Revision) Effective March 1, 2009
By the Arkansas State Board of Health
Arkansas Department of Health
Little Rock, Arkansas
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Arkansas Trauma Systems Rules And Regulations

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Authority -

The following Rules and Regulations pertaining to the comprehensive, statewide, Trauma System are duly adopted and promulgated by the Arkansas State Board of Health pursuant to the authority expressly conferred by Act 559 of 1993 (The Trauma System Act), and the laws of the State of Arkansas including, without limitation, Act 96 of 1913 (Arkansas Statutes, 1947, Section 82-110).

SECTION I. DEFINITIONS

For the purpose of these regulations the following terms are defined:

NOTE: All definitions refer to the "adult trauma patient" unless otherwise identified.

AACN: American Association of Critical Care Nurses

AANN: American Association of Neuroscience Nurses

ACEP: American College of Emergency Physicians

ACGME: Accreditation Council for Graduate Medical Education

ACLS-certified: Individuals certified by the American Heart Association in Advanced Cardiac Life Support

ACS COT: American College of Surgeons Committee on Trauma

ACS: American College of Surgeons

ACOS: American College of Osteopathic Surgeons

Act: Act 559, The Trauma System Act of 1993

Adult: Age classification 18 years old and above

AIS: Abbreviated Injury Scale: An anatomic severity scoring system

ALS: Advanced Life Support, including techniques of resuscitation, such as intubation, intravenous access, and cardiac monitoring

Alternate Criteria: Those criteria for inclusion in the trauma service, which are offered as an alternative to Board Certification. The non-board-certified surgeon must have completed an approved surgical residency program. The surgeon must be licensed to practice medicine and approved for surgical privileges by the hospital's credentialing committee. The surgeon must meet all criteria established by the trauma director to serve on the trauma team. The surgeon must have experience in caring for trauma patients which must be tracked by the performance improvement (PI) program. The Trauma director must attest to the surgeon's experience and quality of patient care as part of the recurring granting of trauma team privileges consistent with the hospital's policy. This individual is expected to meet all other qualifications for members of the trauma team.

AMA: American Medical Association

AOA: American Osteopathic Association

APLS: Advanced Pediatric Life Support Course jointly developed and sponsored by the American College of Emergency Physicians and American Academy of Pediatrics—covers the knowledge and skills necessary for the initial management of pediatric emergencies, including trauma.

Asystole: Absence of spontaneous cardiac activity.

ATLS Course: Advanced Trauma Life Support Course of the American College of Surgeons

BLS: Basic Life Support techniques of resuscitation, including simple airway maneuvers and administration of oxygen.

Basic (Level IV) Facility: Medical facility that provides screening and definitive care or stabilization and transfer of severely injured patients in remote areas where no alternative care is available, or stabilization while arranging for transfer to a Level I, Level II, or Level III facility that can provide further definitive surgical care.

Board: The State Board of Health as provided for in Ark. Code Ann. §20-7-102.

Board-certified: Physicians certified by appropriate specialty boards recognized by the American Board of Medical Specialties.

Burn patient referral: In general, patients for referral are so-called "major burns," described as burns involving 20 percent or greater body surface area (BSA) in an adult, or 10 percent or greater BSA in a child; additionally, burns of lesser BSA in patients with concomitant serious disease—for example, cirrhosis, diabetes, and cardiac disease—should be considered for transfer, as should special problems, such as inhalational injuries and burns involving hands, feet, face, and genitalia.

Bypass (Divert Status): Transport of an EMS patient past a normally used EMS receiving facility for the purpose of accessing more readily available or appropriate medical care.

CCRN: Critical Care Registered Nurse certification from the American Association of Critical Care Nurses.

CDC: Centers for Disease Control and Prevention in Atlanta, GA—a Federal agency committed to epidemiological surveillance, control of disease processes, particularly those secondary to infection or trauma, and prevention.

Certificate of Special Competency or Added Qualifications: Recognition of specialized education in selected areas of care and acknowledged by the American Board of Medical Specialties.

Child: Age class from one year old through 17 years of age

Communication system: A collection of individual communication networks, a transmission system, relay stations, and control and base stations capable of interconnection and interoperation that are designed to form an integral whole. The individual components must serve a common purpose, be technically compatible, employ common procedures, respond to control, and operate in unison.

Comorbidity: Significant cardiac, respiratory, or metabolic diseases that stimulate the triage of injured patients to trauma centers.

Comprehensive (Level I) Facility: Regional resource trauma center that has the capability of providing leadership and total care for every aspect of injury from prevention through rehabilitation.

Continuing Medical Education (CME): Defined educational activities for practicing physicians, often resulting in approved credit hours from the AMA, state medical society, a medical school, or hospital.

Credentialing: Approval of physician as a member of the trauma team, based on a review of the individual's training and experience by the trauma service director and the appropriate service chief.

Demonstrated commitment: Provision of evidence (visible and written) that clearly demonstrates an institution-wide commitment to trauma care.

Department: The Arkansas Department of Health

Designation: The process by which a hospital is identified by the Department as an appropriate facility to receive traumatically injured patients.

Desirable characteristic: A component of the trauma care facility standards whose presence or availability is encouraged but not required for designation.

Disaster: Sudden event with a variable mixture of injury to or sickness of human beings, destruction, or contamination of property, overwhelming demand on local response resources, and disruption of organized societal mechanisms.

Diversion: A procedure put into effect by a trauma facility to insure appropriate patient care when that facility is unable to provide the level of care demanded by a trauma patient's injuries or when the facility has temporarily exhausted its resources.

Emergency Medical Services (EMS): The transportation and medical care provided the critically ill or injured patient prior to arrival at an emergency department and within a medical facility subject to the individual approval of the medical staff and governing board of that facility.

ENA: Emergency Nurses Association

ENPC: Emergency Nurse Pediatric Course developed and sponsored by the ENA which covers the knowledge and skills necessary for the initial nursing assessment and management of pediatric patients in the emergency department.

Required characteristic: A component of the trauma care facility standards that is required for designation.

Extrication Services: The services provided by the use of specialized equipment for the purpose of gaining access and entry to entrapped patients.

Field Triage: Classification of patients according to medical need at the scene of an injury or onset of an illness.

GCS: Glasgow Coma Scale-A scoring system that defines eye, motor, and verbal responses in the patient with injury to the brain.

General (Level III) Facility: Hospital that provides assessment, resuscitation, emergency surgery, and definitive care or stabilization while arranging for transfer to a Level I or Level II facility that can provide further definitive surgical care.

General Surgery Accredited Residency Program: Programs approved by the Accreditation Council for Graduate Medical Education.

Hospital criteria: Essential or desirable characteristics that help categorize Level I, II, III, and IV trauma facilities.

ICD-9: Current Edition of International Classification of Diseases-a standard coding system that includes all injuries and disease processes.

ICP: Intracranial pressure, often monitored in patients with severe injuries to the brain.

Immediately available to the patient: Services provided by a trauma facility that are inhouse 24 hours a day, 7 days a week.

Inclusive Trauma Care System: A trauma care system that incorporates every health care facility in a community in a system in order to provide a continuum of services for all injured persons who require care in an acute facility; in such a system, the injured patient's needs are matched to the appropriate hospital resources.

Infant: Age class from birth to one year old.

In-house: Physically present in the hospital.

Injury: The result of an act that damages, harms, or hurts; unintentional or intentional damage to the body resulting from acute exposure to mechanical, thermal, electrical, or chemical energy or from the absence of such essentials as heat or oxygen (see Trauma).

Injury control: Programs designed to teach potential victims how to avoid injuries.

Interfacility transfer: The transfer of a patient from one hospital to another hospital.

ISS: Injury Severity Score—the sum of the squares of the Abbreviated Injury Scale scores of the three most severely injured body regions.

Lead Trauma Facility: A trauma facility that has made an additional commitment to its trauma service region. This commitment, which usually is offered by the highest Level of trauma facility in a given trauma service region, includes outreach and increased educational activities. The responsibilities may be shared by trauma facilities.

Major (Level II) Facility: Hospital that provides screening and definitive care of the traumatically injured patient regardless of the severity of injury, but does not conduct a trauma research program or a general surgery residency program.

Mechanism of Injury: The source of forces that produce mechanical deformations and physiologic responses that cause an anatomic lesion or functional change in humans.

Medical control (Direct): Immediate medical direction to prehospital personnel in remote locations provided by a physician or an authorized communications resource person under the direction of a physician.

Medical control (Indirect): The establishment and monitoring of all medical components of an EMS system, including protocols, standing orders, education programs, and the quality and delivery of direct control.

Medical oversight: The assistance given to the Trauma Regional Advisory Council (TRAC) and/or regional health care entities in system planning by a physician or group of physicians designated by the TRAC to provide technical assistance.

Morbidity: The relative incidence of disease.

Mortality: The proportion of deaths to population.

Multidisciplinary trauma review committee: Committee composed of the trauma service director and other physician members of the trauma service that reviews trauma deaths in a system or hospital.

Multiple or mass casualty triage: Specialized techniques of triage used when large numbers of injured patients are concentrated in one area.

OGME: Osteopathic Graduate Medical Education

On-call: Committed for a specific time period to be available and respond within an agreed amount of time to provide care for a patient in the hospital.

Over-triage: Directing patients to trauma centers when they do not need such specialized care. Over-triage occurs because of incorrect identification of patients as having severe injuries when retrospective analysis indicates minor injuries.

PALS: Pediatric Advanced Life Support Course developed and sponsored by the American Heart Association and the American Academy of Pediatrics-covers the knowledge and skills necessary for the initial management of pediatric emergencies, including trauma.

Pediatric Trauma Center: Children's hospital fulfilling the criteria for comprehensive trauma care.

Pediatric Trauma Score: An injury scoring system used in some centers caring for pediatric patients.

Pediatric trauma surgeon: Certified pediatric surgeon with a commitment to trauma or certified general surgeon with special training and documented CME relevant to pediatric trauma care.

Postgraduate year (PGY): Classification system for residents in postgraduate training-the number indicates the year they are in during the postmedical school residency program; for example, PGY1 is one year after graduation from medical school.

Prehospital care provider: An individual or organization certified by the Section to provide out-of-hospital emergency medical services.

Promptly available to the patient: Services provided by a trauma facility that are available to the patient within 30 minutes.

Protocol: A written procedure to ensure standardization of care.

Regionalization: The identification of available resources within a given geographic area and coordination of services to meet the needs of a specific group of patients.

Rehabilitation: Services that seek to return a trauma patient to the fullest physical, psychologic, social, vocational, and educational level of functioning of which he or she is capable, consistent with physiologic or anatomic impairments and environmental limitations.

Research: Clinical or laboratory studies designed to produce new knowledge applicable to the care of injured patients.

Response time: Interval between notification and arrival of general surgeon or surgical specialist in the emergency department or operating room.

Resuscitation: The phase of trauma or specialty care where emergency life support treatment is provided to sustain vital bodily functions.

RTS: Revised Trauma Score-A prehospital/emergency department scoring system in which numerical values are assigned to differing levels of Glasgow Coma Scale, systolic blood pressure, and respiratory rate.

Section: The Section of EMS and Trauma Systems; the organization within the Department responsible for the enforcement of EMS and Trauma Systems legislation within the State of Arkansas.

Sensory, Motor, and Circulation (SMC's): Refers to the assessment of the patient's ability to feel and move, and the status of the patient's blood circulation.

State Trauma Registry: A database of information, submitted to the Section by the hospitals, relating to the care of trauma patients as defined in these Rules and Regulations. The information is used to evaluate the quality of care provided.

Transfer agreement: A formal, written agreement between hospitals for the transfer and acceptance of patients. Note: This is not a substitute for the Emergency Medical Treatment and Labor Act (EMTALA) transfer forms.

Trauma: A term derived from the Greek for "wound," it refers to any bodily injury (see Injury).

Trauma Advisory Council: The body of individuals appointed by the Governor to advise, assists, and make recommendations to the Section concerning the development of the statewide trauma system.

Trauma call roster: The listing of surgeons assigned to provide trauma care, including date of coverage and alternate surgeons.

Trauma Care Systems and Planning Act: The law that amended the Public Health Service

Act to add Title-XII-Trauma Programs. The purpose of the legislation is to assist state governments in developing, implementing, and improving regional systems of trauma care and to fund research and demonstration projects to improve rural EMS and trauma care (PL-101-590).

Trauma Center (Facility): A specialized hospital facility distinguished by the immediate availability of specialized surgeons, physician specialists, anesthesiologists, nurses, and resuscitation and life support equipment on a 24-hour basis to care for severely injured patients or those at risk for severe injury.

Trauma Center Designation: The process by which the Section of EMS & Trauma Systems identifies and selects facilities to care for severely injured patients within a trauma care system.

Trauma Coordinator/Trauma Program Manager: A registered nurse with responsibility for monitoring and evaluating nursing care of trauma patients and the coordination of quality improvement and patient safety programs for the trauma center in conjunction with the trauma medical director.

Trauma fellowship: Formal advanced postresidency training in the care of injured patients.

Trauma patient: The patient which presents acute bodily injuries secondary to an external force requiring immediate interventions deemed necessary to preserve life and limb. For statistical purposes, the definition will apply to the **traumatically injured patient** that:

Is admitted for observation for a period of time greater than 8 hours, or Is admitted to the hospital, or Is transferred to another trauma system facility, or Expires

Trauma prevention programs: Internal institutional and external outreach educational programs designed to increase awareness of methods for prevention and/or avoidance of trauma related injuries.

Trauma program: An administrative unit that includes the trauma service and coordinates other trauma related activities; for example, injury prevention, public education, CME activities, etc.

Trauma Regional Advisory Council (TRAC): The Council formed within a Trauma Service Region that develops and oversees the region's trauma system plan.

Trauma Registry: The collection and analysis of trauma data from the trauma system.

Trauma Service: A clinical service established by the medical staff that has oversight of and responsibility for the care of the trauma patient.

Trauma Service Director: Physician designated by the institution and medical staff to coordinate trauma care.

Trauma Service Region (TSR): A geographic region of the state approved by the Section to implement a comprehensive trauma care system plan.

Trauma System: An integrated network that ensures that acutely injured patients are expeditiously taken to hospitals appropriate for their level of injury.

Trauma Team: A group of health care professionals organized to provide care to the trauma patient in a coordinated and timely fashion.

Triage: The sorting of patients in terms of priority, treatment, transportation, and destination, so that the patient can be transported to the appropriate hospital based upon established criteria.

TRISS: Trauma Score/Injury Severity Score-the likelihood of patient survival based on a regression equation that includes patient age, ISS, RTS, and the type of injury (blunt or penetrating).

Under-triage: Directing fewer patients to trauma centers than is warranted because of incorrect identification of patients as having minor injuries when retrospective analysis indicates severe injuries.

Words implying the masculine gender may be applied to both males and females.

SECTION II:

ADMINISTRATIVE

A. All communications concerning these Rules and Regulations shall be addressed to the Arkansas Department of Health, Section of EMS and Trauma Systems, 5800 West 10th Street, Suite 800, Little Rock, Arkansas 72204-1763.

B. Purpose

The purpose of these Rules and Regulations is to establish the procedures and standards for the implementation of a statewide comprehensive trauma system in order to decrease morbidity and mortality which results from trauma.

SECTION III:

PUBLIC INFORMATION AND EDUCATION

A. Purpose

Because trauma is a preventable disease, community information and prevention is an important component of the Arkansas Trauma Care System. The Section shall actively promote and encourage trauma system education and injury prevention throughout Arkansas.

B. Educational Resource Center

• The Section shall establish and maintain an Educational Resource Center which will provide information on statewide trauma system components and established injury prevention programs on the local, state, and national level. The Center shall function as a clearinghouse to gather information regarding trauma care continuing education opportunities and make this information available to the trauma system providers.

C. Trauma Facility Standards for Public Education and Injury Prevention

It shall be the responsibility of all designated trauma facilities to implement public education and injury prevention programs in the approved Trauma Service Region (TSR) as outlined in Section VII.G.

SECTION IV:

PREHOSPITAL TRIAGE AND TRANSPORT

A. Purpose

Emergency care of the traumatically injured patient is best accomplished using an inclusive, multi-level trauma care systems approach. Triage, transport, and transfer protocols have been developed to ensure that trauma patients will receive prompt and potentially lifesaving treatment.

B. Trauma Systems Prehospital Trauma Treatment Standard

1. Assessment

Traumatically injured patients will be appropriately assessed using the Prehospital Triage Criteria & Decision Scheme as defined in Section IV.C.

2. Extrication

Extrication of the traumatically injured patient shall be initiated as needed by the prehospital care provider. (Ref. Emergency Medical Services Rules and Regulations).

3. Initiate resuscitation

Basic Life Support interventions (establishment of patient airway, hemorrhage control, spinal immobilization, fracture immobilization, etc.) will be initiated by the prehospital care provider following established local protocols. Advanced life support protocols shall be kept on file with the Section (ref. Emergency Medical Services Rules and Regulations).

4. Rapid transport to the appropriate medical facility

Patient transport will be initiated by the prehospital care provider following established local protocols.

5. Notify medical control at the receiving hospital

Contact with the receiving hospital will be made as soon as possible. An accurate description of the incident, injuries, current medical interventions based upon established protocols, and patient status will be relayed to the facility. Further management guidance will be requested from the receiving hospital medical control as required during transport.

6. Treatment during transport

Patient care shall follow established local protocols.

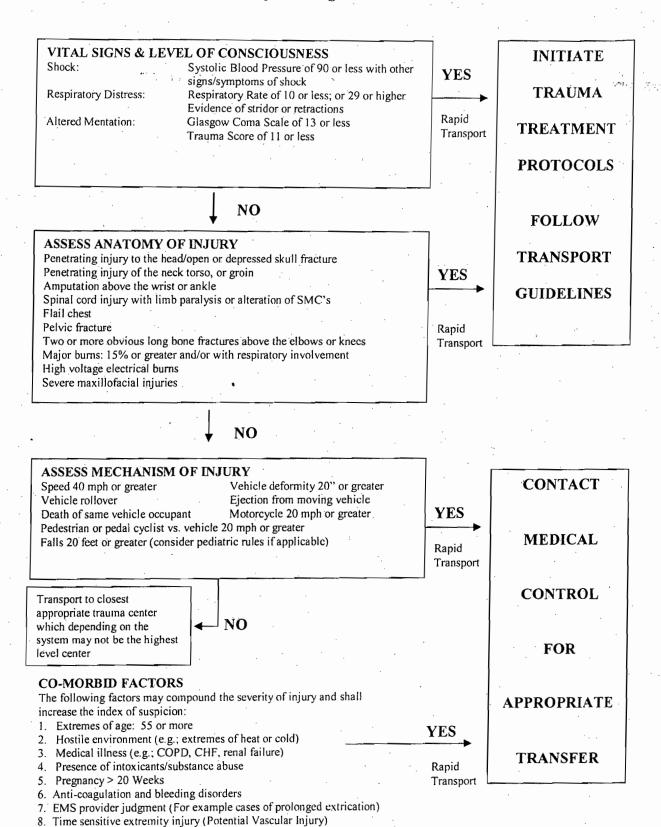
7. Indications to **NOT** activate the EMS system

The Trauma system should not be activated when the following patient conditions occur:

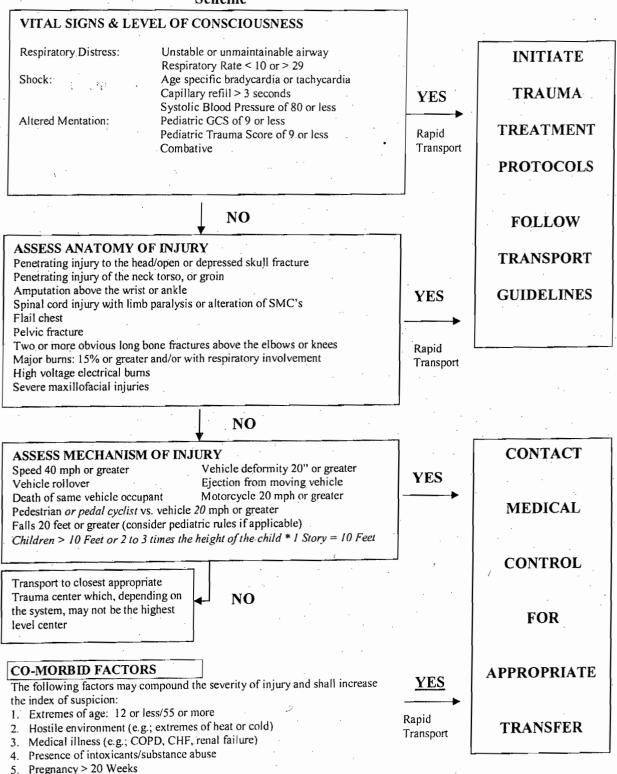
- a. Decomposition
- b. Rigor mortis
- c. Normothermic asystole secondary to trauma (as determined by Advanced Life Support providers only; does not apply to Basic Life Support providers).

These patients should be transported at the direction of the medical examiner or coroner.

C. 1. Adult Prehospital Triage Criteria & Decision Scheme



C. 2. Pediatric Prehospital Pediatric Triage Criteria & Decision Scheme



6. Anti-coagulation and bleeding disorders

EMS provider judgment (For example cases of prolonged extrication)

8. Time sensitive extremity injury (Potential Vascular Injury)

D. Trauma Systems Transport Standard

1. Patient meeting trauma criteria

Patients who meet the trauma criteria as outlined in Section IV.C. shall be transported to a Level I or Level II Facility unless:

- a. The prehospital care provider is unable to establish or maintain an adequate airway or control excessive hemorrhage; in this case, the patient should be transported to the nearest licensed facility to provide the appropriate care.
 - 1. If transport time to a Level I or Level II Facility is greater than 45 minutes by ground; transport the patient to a closer Level III Facility unless the Section of EMS and Trauma Systems has approved a deviation from these guidelines.
 - 2. If transport time to a Level I, II, or III Facility is greater than 45 minutes; transport the patient to a closer Level IV Facility unless the Section of EMS and Trauma Systems has approved a deviation from these guidelines.

2. Override of criteria by Medical Control

Medical control may override the transport requirement outlined in Section IV.D.1. under the following conditions:

- a. The hospital is unable to meet resource standards as defined for its designated Level.
- b. Multiple patients are involved.
- c. The patient needs specialized care and is stable.

SECTION V: TRIAGE REQUIREMENTS FOR TRAUMA FACILITIES

A. Purpose

The role of the Level I (Comprehensive) and Level II (Major) Trauma facilities shall be to provide the highest level of definitive, comprehensive care for the severely injured adult and pediatric patient with complex, multi-system trauma. In the event of the availability of a specialized Pediatric Trauma Center, the Level I or Level II facilities may elect to arrange for transfer of care to that facility for pediatric patients. Level I and Level II Trauma facilities should have the capability of providing total patient care for every aspect of injury from prevention through the arrangement of rehabilitative services. The role of the Level III (General facility is to provide initial evaluation and stabilization, including surgical intervention, of the severely injured adult or pediatric patient. Critically injured patients who require specialty care are transferred to a higher Level trauma facility in accordance with established criteria. The role of the Level IV (Basic) facility is to provide resuscitation and stabilization of the severely injured adult or pediatric patient prior to transferring the patient to a higher Level trauma facility.

B. Standards for Level I (Comprehensive) and Level II (Major) Facilities

1. Prehospital (EMS) Radio Report

The trauma facility shall monitor the EMS Communications system at all times. In the event of a trauma patient being transported, the EMS report shall be transmitted by the hospital provider to the Emergency Department of the receiving facility.

2. Assignment of Trauma Score and Activation of the Trauma Protocol

Based upon the information received, the trauma facility triage nurse or other appropriate medical control officer shall assign a trauma score and, where indicated, activate the Trauma Treatment Protocol for that facility as outlined in Section V.C.

3. Trauma Patients Not Meeting the Trauma Triage Criteria

Trauma patients shall undergo appropriate emergency department screening and evaluation as prescribed by local protocol.

- C. Triage Standard for Level I and II Facilities
 - 1. Receive EMS Radio Report
 - 2. Assign trauma score (RTS)
 - 3. Initiate Trauma Alert & Trauma Treatment Protocol if any one of the following criteria are met:
 - Systolic Blood Pressure of 90 or less with other signs/symptoms of shock
 - Respiratory Rate of 10 or less; or 29 or greater
 - Glasgow Coma Scale of 13 or less
 - · Trauma Score of 11 or less
 - Pediatric Trauma Score of 9 or less
 - Immediate designated Trauma Team Physician evaluation and early consultation with either a Trauma Surgeon for a high energy event or an appropriate Surgical Subspecialist for isolated injury meeting any one of the following criteria:
 - · Penetrating injury to the head/open or depressed skull fracture
 - · Penetrating injury of the neck, torso, or groin
 - Amputation above the wrist or ankle
 - · Spinal cord injury with limb paralysis or alteration of Sensory Motor Circulation (SMC's)
 - · Flail Chest
 - Pelvic Fracture
 - Two or more obvious long bone fractures above the elbows or knees
 - Major burns: 15% or greater and/or with respiratory involvement
 - · High voltage electrical burns
 - Severe maxillofacial injuries
 - Notify designated Trauma Team Physician on admission to 5. emergency department and perform complete trauma evaluation and appropriate serial observations if the patient does not meet the above criteria but meets any of the following criteria for a high energy event:
 - Speed 40 mph or greater
- Vehicle deformity 20" or greater
- · Vehicle Rollover
- · Ejection from moving vehicle
- Death of same vehicle occupant Motorcycle 20 mph or greater
- Pedestrian or pedal cyclist vs. vehicle 20 mph or greater
- Falls 20 feet or greater (consider pediatric rules if applicable)
- Children > 10 Feet or 2 to 3 times the height of the child
- * 1 story = 10 Feet

TRAUMA PATIENTS WHO MEET NONE OF THE ABOVE CRITERIA SHOULD UNDERGO APPROPRIATE EMERGENCY DEPARTMENT EVALUATION AND MANAGEMENT.

D. Standards for Level III (General) and Level IV (Basic) facilities

1. Prehospital (EMS) Radio Report

The trauma facility shall monitor the EMS Communications system at all times. In the event of a trauma patient being transported, the EMS report shall be transmitted by the prehospital provider to the Emergency Department of the receiving facility.

2. Assignment of Trauma Score and Activation of the Trauma Protocol

Based upon the information received, the trauma facility triage nurse or other appropriate medical control officer shall assign a trauma score and, where indicated, activate the Trauma Treatment Protocol for that facility as outlined in Section V.E.

3. Trauma Patients Not Meeting the Trauma Triage Criteria

Trauma patients shall undergo appropriate screening and emergency department evaluation, observation, and consideration for discharge or admission.

4. Re-evaluation of Trauma Score Due to Deterioration of Patient Condition

The trauma patient whose condition deteriorates or is found to have significant injuries not detected in the initial evaluation should be reclassified and the Trauma Team activated.

- E. Triage standard for Level III and IV Facilities
 - Receive EMS Report
 - 2. Assign Trauma Score
 - 3. Initiate Trauma Alert and Trauma Treatment Protocol if any of the following criteria are met:
 - Systolic Blood Pressure of 90 or less with other signs/symptoms of shock
 - · Respiratory Rate of 10 or less; or 29 or greater
 - Evidence of stridor or retractions
 - Glasgow Coma Scale of 13 or less
 - · Trauma Score of 11 or less
 - Pediatric Trauma Score of 9 or less
 - Penetrating injury to the head/open or depressed skull fracture
 - · Penetrating injury of the neck, torso, or groin
 - Amputation above the wrist or ankle
 - Spinal cord injury with limb paralysis or alteration of Sensory Motor Circulation (SMC's)
 - · Flail Chest
 - Pelvic Fracture
 - Two or more obvious long bone fractures above the elbows or knees
 - Major burns: 15% or greater and/or with respiratory involvement
 - · High voltage electrical burns
 - · Severe maxillofacial injuries
 - 4. Apply High Risk Criteria For Consideration of Early Transfer guidelines developed by our facility to identify patients requiring interfacility transfer. A copy of these guidelines shall be kept on file with the Section of EMS & Trauma Systems. To assist the trauma facility in the development of these guidelines, recommendations for early transfer criteria are found in Section V.F.
 - 5. Contact appropriate facility for transfer as soon as possible
 - 6. Perform complete trauma evaluation and appropriate serial observations if the patient does not meet the above criteria but meets the criteria for a high energy event for any of the following:
 - Speed 40 mph or greater
- Vehicle deformity 20" or greater
- Vehicle Rollover
- · Ejection from moving vehicle
- Death of same-vehicle occupant Motorcycle 20 mph or greater
- Pedestrian or pedal cyclist vs. vehicle 20 mph or greater
- Falls 20 feet or greater (consider pediatric rules if applicable)
- Consider any of the following Co-Morbid Factors 7.
 - Extremes of age: 12 or less/55 or more
 - Pregnancy > than 20 weeks
 - Hostile environment: (e.g.; extremes of heat or cold)
 - Medical illness or prior history (Chronic Obstructive Pulmonary Disease [COPD], Congestive Heart Failure [CHF], renal failure, cardiac, diabetes, cirrhosis, morbid obesity, etc.)
 - · Pregnancy.
 - Immunosupressed patients
 - Anti-coagulation and bleeding disorders
 - EMS provider judgment (For example cases of prolonged extrication)
 - Time sensitive extremity injury (Potential Vascular Injury)

PATIENTS WHO DETERIORATE OR ARE FOUND TO HAVE SIGNIFICANT INJURIES SHOULD BE RECLASSIFIED AND THE TRAUMA TEAM ACTIVATED. OTHER PATIENTS SHOULD UNDERGO APPROPRIATE EMERGENCY DEPARTMENT EVALUATION AND OBSERVATION AND CONSIDERATION FOR DISCHARGE OR ADMISSION.

F. Recommendations for High Risk Criteria for the Consideration of Early Transfer

(THESE GUIDELINES ARE NOT INTENDED TO BE HOSPITAL SPECIFIC)

CENTRAL NERVOUS SYSTEM

· Head Injury

Penetrating injury or open fracture (with or without Cerebral

Spinal Fluid [CSF] leak)
Depressed skull fracture

Glasgow Coma Scale 13 or less or GCS deterioration

Lateralizing signs

Spinal Cord Injury

Spinal column injury or major vertebral injury

CHEST

· Major chest wall injury

- · Wide mediastinum or other signs suggesting great vessel injury
- · Cardiac injury
- Patients who may require prolonged ventilation

PELVIS

- Unstable pelvis ring disruption
- Unstable pelvis fracture with shock or other evidence of continuing hemorrhage
- · Open pelvic injury

MAJOR EXTREMITY INJURIES

- Fracture/dislocation with loss of distal pulses
- · Open long-bone fractures.
- · Extremity ischemia

MULTIPLE-SYSTEM INJURY

- · Head injury combined with face, chest, abdominal, or pelvic injury
- · Burns associated with injuries
- Multiple long-bone fractures
- · Injury to more than two body regions
- · Severe maxillofacial injury

CO-MORBID FACTORS

• Age 55 or greater

•Age (12 or less)

· Cardiac or respiratory disease

•Insulin-dependent diabetes, morbid obesity

Pregnancy

•Immunosupression

SECONDARY DETERIORATION (LATE SEQUELAE)

- · Mechanical ventilation required
- Sepsis
- Single or multiple organ system failure (deterioration in central nervous, cardiac, pulmonary, hepatic renal, or coagulation systems.
- Major tissue necrosis

- G. Standards for the Referral of Patients to a Qualified Burn Center
 - 1. A trauma patient meeting any one of the following criteria shall be considered a candidate for rapid transfer to a specialized burn center:
 - Second and third degree burns >10% BSA in patients <10 yrs or > 50 yrs.
 - b. Second and third degree burns >20% BSA in other age groups.
 - Second and third degree burns involving face, hands, feet, genitalia, and perineum, or which involve skin overlying major joints.
 - d. Third degree burns > 5% BSA
 - e. High voltage electrical burns including lightning injury
 - f. Significant chemical burns
 - g. Inhalation injury
 - h. Burn injury in patients with preexisting condition that could complicate management, prolong recovery, or affect mortality.
 - i. Any burn patient in whom concomitant trauma poses an increased risk of morbidity or mortality may be initially treated in a trauma center until stable before appropriate transfer to a burn center.
 - j. Infants and children with burns who were seen initially in facilities without qualified personnel or proper equipment for burn care should be transferred to a burn center with those capabilities.
 - k. Burn injury in patients who will require special social and emotional or long-term rehabilitative support, including cases involving suspected abuse and neglect.

H. Standards for the Triage and Transfer of the Pediatric Patient

- 1. Hemodynamically unstable patient not responsive to standard resuscitative techniques mandates immediate operative intervention. Nonoperative care is safe only in an environment that provides both close clinical observation by a surgeon experienced in the management of childhood trauma and promptly available medical care. A pediatric patient meeting any one of the following criteria shall be considered a candidate for rapid transfer to a facility capable of providing specialized pediatric care:
 - a. Children in coma showing a Glasgow Coma Scale of 13 or less or Glasgow Coma Scale deterioration
 - b. Infants and children with injuries requiring complex or extensive reconstruction
 - c. Infants and children with polysystem trauma requiring organ system support
 - d.- Any infants or children who meet any of the adult transfer criteria as outlined in Section V.F...
 - e. Hemodynamically stable infants and children with documented visceral injury being considered for observational management.

I. Standards for Transfers Between Trauma Facilities

1. Establishment of transfer agreements

Trauma facilities shall establish written transfer agreements with other cooperating facilities in advance to expedite the care of the trauma patient. A copy of the transfer agreement(s) shall be kept on file in the Section of EMS and Trauma Systems.

- 2. Trauma facilities shall develop an interfacility transfer form to be completed and sent with the patient at the time of transfer. The minimum patient data set provided to the receiving facility shall consist of the following data elements:
 - Patient Information: Name, Address, Age, Sex,
 Weight, Date and Time of Admission, History of
 Current Injury, Date and Time of Current Injury,
 Mechanism of Injury.
 - b. Vital Signs: Minimum of two sets; initial vital signs at time of admittance and vital signs at time of discharge from the referring facility: Blood pressure, pulse rate, respirations, temperature, oxygen saturation, Glasgow Coma Scale score, Trauma Score.
 - c. Identification and type of EMS transport service:
 Basic EMS, Intermediate EMS, Paramedic EMS,
 Helicopter, Fixed Wingel, RN/EMS or other applicable type.
 - d. Diagnosis
 - e. Treatments/Interventions performed by the referring facility
 - f. Date and time of discharge from the referring facility
 - g. Diagnostic studies accompanying patient
 - h. Records attached
 - i. Identification of the Referring Facility
 - i. Identification of the Referring Physician
 - k. Identification of the Receiving Facility
 - 1. Identification of the Receiving Physician

m. Minimum Patient Data Set for an Interfacility Transfer (SAMPLE FORMAT)

PATIENT INFORMATION		VITAL SIGNS		
Name:		INIT	IAL DISCHARGE	<u>S</u>
Address	· [] 17 3	BP		_
Age Sex Weigh	nt	PULSE	* - 2	-
Date and Time of Admission		RESPIRATION		
History of Current Injury		ТЕМР		
	*:	OXY SAT.		
		GCS SCORE		
Date/Time of Injury		TRANSFERRING SERVICE:	☐ Basic EMS ☐ Intermed. EMS ☐ Paramedic EMS	
Mechanism of Injury			☐ Fixed Wing ☐ RN/EMS ☐ Other	· ·
DIAGNOSIS:			· .	
PREVIOUS HISTORY:				
TREATMENTS/INTERVENTIONS:				
DATE AND TIME OF DISCHARGE:			·	:
TX FACILITY:	тх			
RCV FACILITY:	RCV.	PHYSICIAN:	· · ·	
DIAGNOSTIC STUDIES ACCOMPANYING P	ATIENT: RE	CORDS ATTACHED		
LABORATORYRADIOLOGY STUDIESELECTROCARDIOGRAMOTHER		EMS PREHOSPITA NURSING RECORD PHYSICIAN RECORD OTHER	OS	÷

SECTION VI: STANDARDS FOR TRAUMA FACILITY DESIGNATION

A. Purpose

Any hospital that desires authorization to provide trauma care services within the Arkansas Trauma System shall request designation from the Section. No hospital may be represented to the public as an Arkansas designated trauma facility unless that hospital holds a certificate of trauma facility designation issued by the Arkansas Department of Health.

B. Trauma Facility Designation Process

1. Application

An application for trauma facility designation shall be made on forms provided by the Department.

2. Site survey

Upon the review and approval by the Section of the application materials submitted in section VI.B.1., an on-site survey of the facility will be scheduled. All costs associated with conducting on-site surveys shall be the responsibility of the applicant. The on-site survey shall be conducted based upon the standards described in Section VII or Section VIII as applicable. The survey team shall consist of members approved by the Section as outlined in Section IX. The survey team shall submit a comprehensive report to the Section. The Section shall review the survey findings and issue a decision recommending one of the following options:

- a. Full approval at the Level designation requested by the applicant.
- b. Provisional Approval; Temporary approval issued for one year pending the completion of a second on-site survey or submission of documentation of corrective actions by the facility which focus on the specified deficiencies. At the conclusion of the first Provisional approval, the Section may consider a second provisional approval for up to one (1) year. At the conclusion of the second Provisional term, if the facility has not met the Department's requirements, the provisional approval shall be revoked and the facility must reapply for trauma facility designation.
- c. Full approval at a lower Level of designation as recommended by the Section based upon the facilities' current capabilities as determined by the Section review of the on-site survey.
- d. The Board of Health may conduct public meetings consistent with the Administrative Procedures Act to modify provisions of these rules and regulations in order to meet state, regional, or community necessity for trauma care.
- e. Approval denied; facility must resubmit new application and fee.
- f. If an application for designation is denied or not approved at the desired level please see Section XIII for the appeals process.

3. Certification of an Approved Trauma Facility

Upon approval by the Section of all application requirements as set forth in Section VI.B.1 & 2, a Certificate of Trauma Facility Designation will be issued identifying the facility as a state-certified provider of trauma care. This certificate shall be in force for a time period not to exceed four years from the date of issue or if provisional, shall be reviewed after one (1) year.

4. Denial of Trauma Facility Designation

A facility's application for designation may be denied for, but not limited to, the following reasons:

- a. Failure to comply with these sections and/or Health Facilities Services Rules and Regulations.
- b. Willful preparation or filing of false reports or records.
- Fraud or deceit in obtaining or attempting to obtain designation status.
- d. Failure to have appropriate staff or equipment required for designation as described in Section VII or Section VIII as applicable.
- e. A documented history of unauthorized disclosure of medical or other confidential information.
- f. A documented history of alteration or inappropriate destruction of medical records.
- g. A documented history of refusal to render care because of a patient's race, sex, creed, national origin, sexual preference, age, handicap, medical problem, or inability to pay.

5. Reapplication for Designation

Six (6) months after the denial of a facility's application for designation as outlined in Section VI.B.2.e., the facility may reapply for Level designation as described in section VI.B.1. & 2.

6. Appeals Process – Please see Section XIII

C. Suspension or Revocation of Designation

- 1. A trauma facility's Level designation may be suspended or revoked for, but not limited to, the following reasons:
 - a. Failure to comply with these sections and/or Health Facilities Services Rules and Regulations.
 - b. Willful preparation or filing of false reports or records.
 - c. Fraud or deceit in obtaining or attempting to obtain designation status.
 - d. Failure to submit data to the state trauma registry as described in Section XII.
 - e. Failure to have appropriate staff or equipment required for designation as described in Section VII or Section VIII as applicable.
 - f. Unauthorized disclosure of medical or other confidential information.
 - g. Alteration or inappropriate destruction of medical records.
 - h. Refusal to render care because of a patient's race, sex, creed, national origin, sexual preference, age, handicap, medical problem, or inability to pay.

Occasional Failure to Meet Standards

Occasional failure of a hospital or facility to meet its obligations shall not be grounds for denial, suspension, or revocation by the Section if the circumstances under which the failure occurred:

- a. Do not reflect an overall deterioration in quality of and commitment to trauma care.
- b. Are corrected within a reasonable time frame by the facility as determined by the Section.

3. Complaints

Upon receipt of a complaint describing an alleged violation of these Sections, the Section shall:

- a. Initiate a review of the complaint
- b. Notify the trauma facility of the complaint
- c. Develop a written report of the review
- d. Notify the trauma facility of the results of the review

Notification of Action

If the Section proposes to suspend or revoke a designation, the Section shall notify the facility by registered or certified mail at the last address shown in the Section records. The notice shall state the alleged facts that warrant the action and state that the hospital or facility has an opportunity to request a hearing in accordance with the department's formal hearing procedures.

- a. The facility shall request a hearing within fifteen (15) postmark days after the date of the suspension or revocation notice. This request shall be in writing and submitted to the Section Director. If a hearing is requested, the hearing shall be held in accordance with the Department hearing procedures.
- b. If the hospital or facility does not request a hearing in writing, after being sent the notice of opportunity for hearing, it is deemed to have waived the opportunity for a hearing and the suspension or revocation decision shall stand.

SECTION VII: TRAUMA FACILITY RESOURCE STANDARDS

LEVELS

The following table shows lev	vels of categorization and their (R) equired or (D) estrable characteristics	IV	III	II	I
	ORGANIZATION	D	D	D	R
1. Tra	auma Service	0	b	ש	K
	ecified delineation of privileges for the Trauma Service must cur by the medical staff Credentialing Committee				
ex mu tra be ide	auma Team: Organized and directed by a general surgeon pert in and committed to the care of the injured; all patient with altiple system or major injury must be initially evaluated by the uma team when appropriate, and the surgeon who shall responsible for overall care of a patient (the team leader) entified. A team approach is required for optimal care of patients th multiple-system injuries.				
2. Em	nergency Department	R	R	R.	R
app Dej the Dej mu	e Emergency Department staffing shall ensure immediate and propriate care for the trauma patient. The Emergency partment physician shall function as a designated member of trauma team, and the relationship between Emergency partment physicians and other participants of the trauma team at the established on a local level, consistent with resources but thereing to these standards and ensuring optimal care.				
3. Sur	gical Specialty Capability Availability	D	R	R	R
Boo Edu an app yea cert tho	neral Surgery and Certified by Accreditation Council for Graduate Medical acation (A.C.G.M.E.) or Osteopathic Graduate Medical acation (O.G.M.E.) who (may be a surgeon who is a graduate of A.C.G.M.E. or American Osteopathic Association (AOA) proved [O.G.M.E.]) approved residency and who is less than five resout of training. If the surgeon fails to obtain board diffication within five years, s/he is no longer eligible, even ugh s/he has obtained Advanced Trauma Life Support (ATLS) arse completion). Alternatives to board certification may be blied as defined in Section I, Definitions: "Alternate Criteria."				
1.	Full, unrestricted trauma surgery privileges	D	R	R	R
2.	ATLS* At least once	R	R	R	R
3.	On-call and promptly available (within 30 minutes)		R		
4.	On-call and promptly available to the patient upon activation of the trauma protocol.			R	
5.	In-house and immediately available to the patient on arrival in the Emergency Department (assumes 5-minute prehospital notification). A Post Graduate Year (PGY) 3 or higher Resident may be used to fulfill this requirement.				R

following table shows levels of categorization and their (R) equired or (D) estrable characteristics	IV	III	II	· I
b. Neurologic surgery				
1. Full, unrestricted neurosurgery privileges. On-call and promptly available.		D	R	R
OR			R	$ _{\mathbf{R}}$
2. Physician with special competence, as judged by the Chief of Neurosurgery, in the care of patients with				``
neural trauma, and who is capable of initiating measures directed toward stabilizing the patient and initiating diagnostic procedures. In-house and immediately available.				
c. Cardiac surgery (on-call and promptly available)		·	R	R
d. Microsurgery capabilities (promptly available)			D	R
e. Obstetric/Gynecological Surgery (on-call and promptly available) (With the exception of Pediatric Facilities)			R	R
f. Hand Surgery (on-call and promptly available)			D	R
g. Ophthalmic surgery (on-call and promptly available)	.	D	R	R
h. Oral, Otorhinolaryngologic, <u>OR</u> Plastic/Maxillofacial Surgery (on-call and promptly available).		D	R	R
i. Orthopedic Surgery (on-call and promptly available)	D	D	R	R
j. Pediatric Surgery capabilities (on-call and promptly available) (Applies to Pediatric Facilities)			R	R
k. Thoracic Surgery (on-call and promptly available)		D	R	R
1. Urologic surgery (on-call and promptly available)		D	R	R
4. Non-Surgical Specialty Capability Availability				
a. Anesthesiology		_	_	,
 Anesthesiology (full, unrestricted anesthesiology privileges) 	D	D	R	R
ATLS* and Advanced Cardiac Life Support (ACLS) At least once	D	D	D	D
 Certified Registered Nurse Anesthetist (current national certification essential) 				
ACLS and trauma life support course	D	D	D	D
			·.'	

The following table shows levels of categorization and their (R) equired or (D) estrable characteristics	ľV	III	II	I
 3. Anesthesiologist: In-house and immediately available to the patient upon arrival in the Emergency department (assumes fifteen-minute prehospital notification). * *A PGY 3 or higher resident in anesthesiology may be used to fill this requirement with the approval of the chief of Anesthesiology 4. Anesthesiologist: On-call and promptly available to the patient upon arrival in the Emergency Department (assumes fifteen-minute prehospital notification). 	÷		R	R
5. Anesthesiologist <u>OR</u> Certified Registered Nurse Anesthetist: On-call and promptly available.	D	R		
b. Cardiology (on-call and promptly available)		D.	R	R
			٠.	
c. Chest Medicine			D	R
d. Gastroenterology	٠.		D	R
e. Hematology		D	R	R
f. Infectious Disease			Ď	R
g. Internal Medicine		R	R	R
h. Nephrology		D	Ŗ	R
i. Neuroradiology				D
		D	R.	R
j. Pathology		D	R	R
k. Pediatrics (on-call and promptly available)		"	D	R
1. Psychiatry		_		
m. Radiology (on-call and promptly available)	D	D	R	R
B. SPECIAL FACILITIES/RESOURCES/CAPABILITIES			·	
1. Emergency Department				
a. Personnel			· _	_
1. Designated Physician Director	, D	R	R	R
2. Emergency Physician		,		
Full time emergency medicine practitioner with	D	D	R	Ŕ
special competence in the care of the critically injured patient.				
 b. Physicians who are qualified and experienced in caring for patients with traumatic injuries and who can initiate resuscitative measures. 	R	R		

he following table shows levels of categorization and their (R) equired or (D) estrable characteristics	IV	III	II	I
c. ATLS	R	R	R	R
At least once				
d. In-house and immediately available to the	· D	R	R	R
patient upon arrival in the emergency				
department.				
department.				.
e. On-call and promptly available.	R		-	
3. Emergency Department Registered Nurse				
a. ACLS or Pediatric Advanced Life Support (PALS)	R	R	R	R
or Emergency Nursing Pediatric Course (ENPC) (as				
				`
appropriate)				
b. Initial sixteen-hour Health Department	R	R	R	R
approved Trauma Life Support course.	1			
c. In the Emergency Department and immediately	. D	R.	R	R
available.				
a rando.				
d. In-house and immediately available.	R			
d. In-nouse and miniculatory available.				
The support for requestration and to provide life support for the				
b. Equipment for resuscitation and to provide life support for the				
critically or seriously injured shall include but not be limited to:				
and the state of t	R	R	R	R
Airway control and ventilation equipment including				
laryngoscope and endotracheal tubes of all sizes, valve-				
mask resuscitator, sources of oxygen, pulse oximeter, CO ₂				
monitoring, mechanical ventilator.				
2. Suction devices	R	R	R	R
Z. Suction devices	1.	^*		1
3. Electrocardiograph-oscilloscope-defibrillator	R	R	R	R
3. Electrocardiograph-oscilloscope-defibrillator				
tall' to an aug programs	D	R	R	R
4. Apparatus to establish central venous pressure				
monitoring				
			ъ	, n
5. Standard IV fluids & administration devices, including	R	R	R	R
IV catheters.				
6. Intravenous fluid and blood warmers	R	R	R.	R
6. Intravenous fluid and blood warmers	``		^` '	'
a Co. 11 laste for standard ED procedures	_	P.	· p	l n
7. Sterile surgical sets for standard ED procedures	R	R	R	R
]
8. Gastric lavage equipment	R	R	R	R
				1
				1

	e shows levels of categorization and their (R) equired or (D) estrable characteristics	IV	III	II
9.	Drugs and supplies necessary for emergency care	R	R	R
10.	a. X-ray capability 24 hours coverage by in-house	D	D	R
	technician b. Technician on-call and promptly available to	Ŕ	R	
	patient upon arrival in the emergency department.		, .	
· . 11.	Two-way radio linked with vehicles of the prehospital EMS system.	R	R	R
12.	Skeletal Traction device for spinal injuries (spinal or backboard immobilization devices may be used as an alternative).	R	R	R
: 13.		R	R	R
	C. V. W. C. D. S. Trauma Potionts (ICII's may			
2. I	ntensive Care Unit (ICU) for Trauma Patients (ICU's may be separate specialty units).			
				R
a. D	Designated Medical Director			
	hysician on duty in ICU 24 hours a day or immediately		D	R
a	vailable			
	lurse-patient minimum average ratio of 1:2 on shift for trauma		R	R
	Surse-patient minimum <u>average</u> ratio of 1:2 on shift for trauma atients			
p			R R	R
d. Is	mmediate access to clinical laboratory services.			
p d. Ii e. E	atients mmediate access to clinical laboratory services. quipment		R	R
p d. Ii e. E	mmediate access to clinical laboratory services.			
p d. li e. E	atients mmediate access to clinical laboratory services. quipment		R	R
p d. In e. E 1 2	atients mmediate access to clinical laboratory services. quipment . Airway control and ventilation devices . Oxygen source with concentration controls		R	R
p d. Ii e. E	atients mmediate access to clinical laboratory services. quipment . Airway control and ventilation devices . Oxygen source with concentration controls . Cardiac emergency cart		R R R	R R R
p d. Ii e. E	atients mmediate access to clinical laboratory services. quipment . Airway control and ventilation devices . Oxygen source with concentration controls		R R R	R R
p d. Ii e. E 1 2 3	atients mmediate access to clinical laboratory services. quipment . Airway control and ventilation devices . Oxygen source with concentration controls . Cardiac emergency cart		R R R	R R R
p d. Is e. E 1 2 3 4 5	atients mmediate access to clinical laboratory services. quipment Airway control and ventilation devices Oxygen source with concentration controls Cardiac emergency cart Temporary transvenous pacemaker		R R R R	R R R
p d. Is e. E 1 2 3 4 5	atients mmediate access to clinical laboratory services. quipment . Airway control and ventilation devices . Oxygen source with concentration controls . Cardiac emergency cart . Temporary transvenous pacemaker . Electrocardiograph-oscilloscope-defibrillator		R R R R	R R R R
p d. In e. E 1 2 3 4 5 6	mmediate access to clinical laboratory services. quipment Airway control and ventilation devices Oxygen source with concentration controls Cardiac emergency cart Temporary transvenous pacemaker Electrocardiograph-oscilloscope-defibrillator Cardiac output monitoring		R R R R	R R R R
p d. Ii e. E 1 2 3 4 5 6 7	mmediate access to clinical laboratory services. quipment Airway control and ventilation devices Oxygen source with concentration controls Cardiac emergency cart Temporary transvenous pacemaker Electrocardiograph-oscilloscope-defibrillator Cardiac output monitoring		R R R D D	R R R R R R

e following table shows levels of categorization and their (R) equired or (D) estrable characteristics	ĮV.	Ш	II	
10. Pulmonary function measuring devices		R	R	
11. Temperature control devices		R	R	
12. Drugs, intravenous fluids and supplies		R	R	
13. Intracranial pressure monitoring devices		D	R	
3. Postanesthetic Recovery Room (PAR); (surgical intensive care unit is acceptable).				
a. Registered nurses and other essential personnel 24 hours a day	D	R	R	
b. Appropriate monitoring and resuscitation equipment	D.	R	R	
4. Acute Hemodialysis Capability (or transfer agreement)		D	D	
5. Organized Burn Care	R	R	R	
a. Physician-directed Burn Center Unit staffed by nursing personnel trained in burn care and equipped properly for the care of the extensively burned patient				
OR				ŀ
b. Transfer agreement with nearby burn center or hospital with a burn unit.				
6. Acute Spinal Cord Injury	R	R	R	
Management Capability				
 In circumstances where a designated spinal cord injury rehabilitation center exists in the region, early transfer should be considered; transfer agreements should be in effect. 				
b. In circumstances where a head injury center exists in the region, transfer should be considered in selected patients; transfer				
agreements should be in effect.				
7. Radiological Special Capabilities		D	R	
a. Comprehensive range of angiography services		D	R	Ì
b. Sonography			D	
c. Nuclear scanning			-	

d.	shows levels of categorization and their (R) equired or (D) estrable characteristics	ΓV	III	II.]
u.	In-house computerized tomography			R	F
			l .	<u> </u>	,
e	In-house radiologic technician			R	F
f,	Technician on-call and promptly available		R		
1.	recimician on-can and promptly available				
8.	Rehabilitation Medicine	R	R	R	I
	D				
а.	Physician-directed Rehabilitation service staffed by nursing personnel trained in rehabilitation care and equipped properly for				
	the care of the critically injured patient.	ľ			
`	OR				
Ъ.	Transfer agreement when medically feasible to a nearby	į.			
	rehabilitation service.			-	
. 0 2	Market Comban		D	R	ر
9. Pe	ediatric Service				
• •	Nursing personnel caring for pediatric patients are properly				ŀ
	trained and equipped.	'			
					l
. OPEI	RATING SUITE SPECIAL REQUIREMENTS				
E	oment-Instrumentation	'			
Equi	ment-institunction		_		
1.	Operating Room adequately staffed and equipped for trauma	D	R		
	care (promptly available).				
	care (promptly available)				l
	care (promptly analysis)				
				R	
٠.	Immediately available to the patient upon arrival in the Operating			R	
· .	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN			R	
· .	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with			R	
*.	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN			R	
	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to			R	
	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five			R]
	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to			R	
	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five minute prehospital notification).			R	
2.	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five				
	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five minute prehospital notification). Cardiopulmonary bypass capability]
2. 3.	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five minute prehospital notification).			R]
3.	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five minute prehospital notification). Cardiopulmonary bypass capability Operating Microscope			R]
	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five minute prehospital notification). Cardiopulmonary bypass capability			R]
3. 4.	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five minute prehospital notification). Cardiopulmonary bypass capability Operating Microscope Thermal control equipment	R	R	R]
3.	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five minute prehospital notification). Cardiopulmonary bypass capability Operating Microscope	R	R	R D	1
3. 4.	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five minute prehospital notification). Cardiopulmonary bypass capability Operating Microscope Thermal control equipment	R R	R R	R D]
3. 4.	Immediately available to the patient upon arrival in the Operating Room or when requested by surgeon (may be satisfied by one RN in-house and immediately available to the Operating Suite with the remainder of the crew on-call and promptly available). In-house staff and Operating Room immediately available to patient upon arrival in the Emergency Department (assumes five minute prehospital notification). Cardiopulmonary bypass capability Operating Microscope Thermal control equipment for the patient			R D	

The following to	able shows levels of categorization and their (R) equired or (D) estrable characteristics	ΙV	III	II	1.
. 5.	X-Ray capability	R	R	R	. 1
6.	Endoscopes	D	R	R	F
7.	Craniotome	D	D	R	F
8.	Monitoring equipment	R	R	R	F
D. CL	INICAL LABORATORY SERVICES AVAILABLE 24 HOURS A Y				'
1.	Standard analyses of blood, urine, and other body fluids	R	R	R	R
2.	Blood typing and cross-matching	R	R	R	R
3.	Coagulation studies	R	R	R	R
4.	Comprehensive blood bank or access to a community central blood bank and adequate hospital storage facilities	R	R	R	R
. 5.	Blood gases and pH determination	R	R	R	R
6.	Serum and urine osmolality	D	D	R	R
7.	Microbiology	D	R	R	R
8.	Serum alcohol determination	D	R	R	R
9.	Drug screening	D	R	R.	R
. QUALIT	TY IMPROVEMENT				
1.	Organized Quality Improvement program	R	R	R	R
2.	Special audit for all trauma deaths and other specified cases	R	R	R	R
3.	Trauma conference; multi-disciplinary	D	R	R	R
	Regular and periodic multi-disciplinary trauma conferences that include all members of the trauma team. This conference shall be for the purpose of quality improvement through critiques of individual cases, and incorporated into the existing quality improvement/peer review program activities of the hospital.				
4. M	ledical nursing audit, utilization review, tissue review	R	R	R	R

	wing table shows levels of categorization and their (R) equired or (D) estrable characteristics	IV		-	
5.	Trauma Registry review	R	R	R	ŀ
	Documentation of severity of injury and outcome by trauma score, age, injury severity score, TRISS, survival, length of stay, ICU length of stay, with monthly review of statistics.				
	Participation in the Section of EMS & Trauma Systems Trauma Registry and Quality Improvement activities as prescribed in the area plan.				
4	Designated Trauma Registry Coordinator				
6.	Review of prehospital and regional trauma systems	D	D	D	r
F.	OUTREACH PROGRAM	D	D	R	R
	Telephone and on-site consultations with physicians of the community and outlying areas.		•		
3 .	PUBLIC EDUCATION	R	R	R	R
	Injury prevention in the home and industry, and on the highway and athletic fields; standard first aid; problems confronting public, medical profession, and hospitals regarding optimal care for the injured. Could be a collaborative effort by multiple hospitals or the region.				
I.	TRAUMA RESEARCH PROGRAM			D	R
•	TRAUMA EDUCATION PROGRAM				 - -
	Ongoing continuing education program focused on trauma provided or sponsored by the hospital. The continuing education should include at least 16 hours every 4 years and must meet the standards for approved continuing education set by individual state licensing boards or certifying entities for:				
	a. Staff physicians	R	R	R	R
	b. Nurses	R	R	R	R
	c. Allied health personnel	R:	·R	R	R
	d. Community physicians	R	R	R	R
	d. Community physicians	, ,			
	e. Prehospital personnel	R	R	R	R

SECTION VIII: PEDIATRIC TRAUMA FACILITY STANDARDS

A. Purpose

The highest Level of pediatric trauma care is provided in a Pediatric Trauma Resource Facility. This facility shall be capable of providing comprehensive care for all injured infants and children, particularly the most severely injured in a given region. When no pediatric facility is available, infants and children with multisystem injuries can be treated in an adult trauma facility that has demonstrated a significant commitment to pediatric care as determined by the criteria outlined in Section VIII.B.

B. Standards for Pediatric Trauma Facility Designation as a Pediatric Trauma Regional Resource Facility or an Adult Trauma Facility with Pediatric Commitment:

. 1	PEDIATRIC TRAUMA REGIONAL		ADULT TRAUMA FACILITY WITH
	RESOURCE FACILITY		PEDIATRIC COMMITMENT
A pediat	ric surgeon credentialed in trauma care will be		A surgeon must be on call and promptly available and
	ately available and present in the OR for any and all	Pediatric	present in the ED at time of arrival of the patient, and will I
operativ	e procedures. A general surgical resident at a	Surgeon	available to care for pediatric trauma patients in the ICU.
minimu	m PGY 3 or higher Resident level may initiate		The adult trauma surgeon must have special interest in and
resuscita	ative care until the attending pediatric surgeon arrives.		commitment to care of the injured child.
			E
		General	
	n's hospital or general hospital with a separate	Surgeon	General hospital with an organized pediatric service.
pediatric	e department.		
		Hospital	Designated addictain area in an amorganay department
	c emergency department with appropriate personnel,		Designated pediatric area in an emergency department staffed with pediatric trauma personnel and appropriate
cquipme	nt, and facilities.	Emisus =	
		Emergen	equipment.
Dodiatri	c ICU with pediatric surgery and other surgical	cy Departm	Pediatric ICU with appropriately trained personnel and
medical	and nursing personnel and equipment needed to care	ent	equipment.
	njured child.	•	· · · · · · · · · · · · · · · · · · ·
ioi tuć ii	njureu emiu.		
Pediatrio	c trauma service organized and run by a pediatric	ICU	Pediatric trauma service administered by the pediatric
surgeon.	- · · · · · · · · · · · · · · · · · · ·		surgeon and run by his/her designee.
			D. Hatair Suuraan
1.	Pediatric Surgeon		1. Pediatric Surgeon
2.	Pediatric Orthopedics	Trauma	2. General Surgeon 3. Orthopedics
3.	Pediatric Neurosurgeon	Service	l === ,
4.	Pediatric Anesthesiologist		4. Neurosurgeon 5. Surgical Critical Care Specialist
5.	Pediatric Intensivist	T	
6.	Pediatric Emergency Physician	Trauma	
7.	Pediatric Radiologists	Team	7. Radiologists 8. Pediatricians
8.	Other Pediatric Surgical Specialists		9. Trauma Nurse coordinator
9.	Other Medical Pediatric Specialists		10. Pediatric-trained Trauma Nurses
10. 11.	Pediatric Trauma Nurse Coordinator		To. rediatric-trained fragulia (vurses
	Pediatric Trauma Nurse		

R		Research	D
R		Injury Prevention Program	R
R		Pediatric Trauma Service	R
R		Psychosocial Services	R
R		Rehabilitation	R
R		Emergency Department	R
R	,	Pediatric Intensive Care	R
R		24 hour a day immediate	R
R		Operating Room availability	R
		With in-house anesthesia and	
		Nursing personnel	
R		Trauma Registry	R

SECTION IX: COMPOSITION OF THE TRAUMA FACILITY SITE SURVEY TEAM

A. Purpose

As part of the trauma facility designation process, following a successful application process, an on-site survey of the prospective trauma facility shall be conducted to evaluate the quality of the applicant's compliance with the standards outlined in Section VII or Section VIII.

The review of hospitals for trauma center designation shall include interviews with designated hospital staff, a review of the physical plant and equipment, and a review of records and documents as deemed necessary to assure compliance with the requirements of the rules of this document. The cost of any and all site reviews shall be paid by each applicant hospital or renewing trauma center unless adequate funding is available from the Section of EMS and Trauma Systems to pay for reviews.

- 1. The survey team consists of members of the following, based on the decision of a Trauma Advisory Subcommittee consisting of members from the Trauma Advisory Council and representation from the Section of EMS and Trauma Systems, who are disinterested politically and financially from the facility to be reviewed. Each team member must have past experience and or special training related to trauma designation site review.
 - a. General surgeon (Pediatric surgeon for Pediatric Specialty Facility) who currently works in a designated trauma center and who is a fellow of the American College of Surgeons or a member of the American College of Osteopathic Surgeons (ACOS).
 - b. Emergency physician (Pediatric emergency physician for Pediatric Specialty Facility) who currently works in a designated trauma center and who is board certified in emergency medicine.
 - c. Trauma Program Manager/Coordinator is a registered nurse with responsibility for monitoring and evaluating nursing care of trauma patients and the coordination quality improvement and patient safety programs for the trauma center in conjunction with the trauma medical director.
 - d. Section representative A current employee of the Section of EMS and Trauma Systems who works at

the supervisory level and has a regular working relationship with the Trauma Advisory Council.

- 2. The survey team for a Level I trauma center will consist of a majority of out of state reviewers. This does not apply to the Section Representative on the team. A survey team for a Level II facility will have at least one out of state reviewer. Survey teams for Level III-IV centers will consist of in-state reviewers from another region of the state. In the event that in-state reviewers are not available out of state reviewers may be substituted.
- 3. All team members with the exception of the Section representative shall be active in the management of trauma patients.
- 4. Additional team members may be assigned at the discretion of the Section.
- 5. The survey team shall evaluate the quality of each applicant's compliance with the standards set forth in Section VII or VIII by:
 - a. Reviewing medical records, staff rosters and schedules, quality improvement committee meeting minutes, and other documents relevant to trauma care.
 - b. Reviewing equipment and the physical plant
 - c. Conducting interviews with hospital personnel
- 6. Findings of the survey team shall be forwarded to the Section within 90 days.

SECTION X: TRAUMA SERVICE REGIONS (TSR's)

A. Purpose

The Section shall approve the designation of Trauma Service Regions (TSR's).

- B. Standards for establishing Trauma Service Regions
 - 1. Trauma Service Regions (TSR's) shall be established for descriptive and planning purposes and not for the purpose of restricting patient referral

- 2. The state shall be geographically divided into Trauma service Regions as approved by the Section. Regions of the state wishing to form a TSR shall submit a written plan which adheres to the following criteria:
 - a. A TSR must contain at least a lead General (Level III) trauma facility.
 - b. All TSR's shall be multi-county with no fewer than three counties.
 - c. Counties may be reassigned to areas subdivided as the trauma system demographics change.
 - d. All TSR's shall establish a Trauma Regional Advisory Council (TRAC) as outlined in Section X.C. The TRAC shall submit a Trauma Service Region system plan to the Section, which includes the organizational structure of the TRAC and the recognized components of a Trauma Service Region as outlined in Section X.D.

C. Trauma Regional Advisory Councils

- 1. All participating health care entities should have representation on the TRAC.
- 2. Membership status for hospitals for the first six months shall be provisional.
- 3. Continuing or renewed membership status for hospitals will be dependent upon a commitment to trauma care, as demonstrated by trauma facility designation or involvement in the designation process as described in Section VI.
- 4. The Section shall recognize only one official TRAC for a Trauma Service Region.
- 5. The TRAC is a voluntary entity that functions without the expectation of state funding.
- 6. The TRAC shall develop and oversee a TSR system plan based on standard guidelines for comprehensive system development as outlined in Section X.D. The system plan is subject to approval by the Section.

- 7. Each TRAC shall elect a representative to serve as ex-officio to the Trauma Advisory Council to update and advise the Council regarding regional concerns.
- 8. Each TRAC shall be responsible for a quality improvement program in their region of the state. A review of trauma patients will be made on a yearly basis and a report will be sent to the Trauma Advisory Council following each review.
- D. Components of a designated Trauma Service Region
 - 1. All counties within the TSR should be included unless a specific county, or portion thereof, has been named within an adjacent system.
 - 2. All health care entities and interested specialty centers shall be given an opportunity to participate in the planning process.
 - 3. The following points shall be addressed in the Trauma Service Region system plan:
 - a. Access to the system
 - b. Communications
 - c. Medical oversight
 - d. Prehospital triage criteria
 - e. Diversion policies
 - f. Bypass protocols
 - g. Regional medical control
 - h. Facility triage criteria
 - i. Inter-facility transfers
 - j. Planning for the designation of trauma facilities, including the identification of the lead facility(ies)
 - k. Identification of medical rehabilitation facilities, including capabilities and transfer procedures
 - 1. A quality improvement program that the facility may use to evaluate its own outcomes
 - m. A quality improvement program that uses regional aggregate information provided by the Section to evaluate system performance.
 - n. Confidentiality
 - 4. Section approval of the completed plan shall qualify health care entities participating in the system to receive state funding for trauma care when funding is made available.
 - 5. Annually, on a form provided by the Section, the TRAC shall file a report with the Section that describes progress toward system development and includes evidence

that members of the TRAC are currently involved in trauma care.

SECTION XI: REHABILITATION FACILITIES

A. Purpose

A complete trauma system must include early integration of Rehabilitation services into all phases of acute and primary care. Trauma system hospitals shall demonstrate that rehabilitation services are initiated at the earliest possible point after trauma patient admission.

- B. Capabilities for trauma rehabilitation in each Trauma Service Region (TSR) and transfer procedures to other rehabilitation facilities shall be described in the TSR system plan. Rehabilitation resources for burns, pediatrics, neuro-trauma and extended care shall be included.
- C. Rehabilitation facilities participating in the Trauma Service Region (TSR) shall submit data to the State Trauma Registry in a format approved by the Section.

SECTION XII. STATE TRAUMA REGISTRY

A. Purpose

The Section shall develop and maintain a statewide trauma Data Collection and evaluation system (ref. Act 559, The Trauma System Act, Section 6.a).

- B. Trauma facility data collection and analysis
 - 1. Each designated trauma facility shall collect and submit to the Section for analysis, a standard data set developed by the Section.
 - 2. Data shall be submitted at least quarterly in a format approved by the Section.
 - 3. The Section shall provide annual summary data to the trauma facilities.
 - 4. Individual records and reports made pursuant to these Rules and Regulations shall be held confidential within the hospital and Section and shall not be made available to the public (ref. Act 559, The Trauma System Act, Section 6.c). However, for research purposes only, and in accordance with Ark. Code Ann. §20-8-403, with the written permission of the

State Health Officer and pursuant to the provisions of the Health Insurance Portability and Accountability Act of 1996 as amended; State Trauma Registry data may be accessed in order to facilitate operation of the Arkansas Health Data Initiative.

C. Non-Designated Facilities

May obtain funding from the trauma system to participate in trauma registry data collection efforts.

SECTION XIII: APPEAL PROCESS

- 1. Any facility that is working with the Section of EMS and Trauma Systems, Arkansas Department of Health to achieve a Level of trauma center designation or maintain an existing Level and fails a trauma designation review process, in which a final order is issued by the Department, may file an appeal under these guidelines.
- 2. In the case of each final order issued by the Department, concerning trauma center designation, any affected party may within 30 days of such final order submit a written request for a hearing to the Director of the Department.
- 3. The Board of Health or the Department shall reserve the right to refrain from conducting a review until the request for hearing is produced in writing and filed with the Department stating the nature of the request.
- 4. Hearings may be conducted before the entire Board of Health, one or more members of the Board, an examiner or referee or one or more members of the Department. The Director of the Department shall recommend to the President of the Board the composition of a hearing committee and a hearing officer to preside at the hearing. The President of the Board shall appoint the hearing officer and other hearing committee members.
- 5. In all administrative enforcement and hearing procedures hereunder, in which a final order is issued by the Department, it shall be conducted in accordance with the Arkansas Administrative Procedures Act and Amendments thereto.

SECTION XIV: RULES FOR JOINT TRAUMA SERVICE APPLICATIONS

1. Facilities may apply for joint trauma service as a Level I, II, or III
Trauma Center. Once the decision has been made to work
cooperatively to achieve a Level of trauma designation a single
application must be made by the facilities seeking the joint trauma
Level. The Section of EMS and Trauma Systems will follow the

same process of evaluating the application as they would for a single facility application with the exceptions listed below.

- 2. In addition to the criteria above, to be considered for joint designation the facilities requesting designation must have the ability to perform all of the functions of the designated Level and;
 - a. Cooperative trauma oversight with one trauma director and a joint trauma service being preferred;
 - b. A cooperative multidisciplinary committee with representation from all of the participating facilities;
 - c. A coordinated set of policies and procedures to deliver optimal trauma care;
 - d. A predetermined facility rotation schedule will be made available to the Regional Advisory Council and EMS;
 - e. Facilities seeking joint designation must serve the same primary service area.
 - f. A coordinated Quality Improvement program for trauma including joint peer review and joint system review.
 - g. A Joint Trauma Registry.

SECTION XV: SEVERABILITY

If any provision of these Rules and Regulations, or the application thereof to any person or circumstances is held invalid, such invalidity shall not affect other provisions or applications of these Rules and Regulations which can give effect without the invalid provisions or applications, and to this end the provisions hereto are declared to be severable.

SECTION XVI: REPEAL

All Regulations and parts of Regulations in conflict herewith are hereby repealed.

CERTIFICATION

This will certify that the foregoing Rules and Regulations for Trauma Systems were adopted by the Arkansas Board of Health at a regular session of the Board held in Little Rock, Arkansas on the Janday of January, 2009.

Paul Halverson, DrPH, FACHE Secretary Arkansas Board of Health

The foregoing Rules and Regulations, copy having been filed in my office, are hereby approved on this 10th day of Fabruary, 2009

Mike Beebe Governor

SEED TRO

FORMAT FOR FINANCIAL IMPACT STATEMENT

FINANCIAL IMPACT STATEMENT

DEPARTMENT

Arkansas Department of Health

DIVISION

Center for Health Protection, Section of Emergency

Medical Services and Trauma Systems

PERSON COMPLETING THIS STATEMENT David Taylor, Section Chief PHONE NUMBER (501)-661-2178 FAX # (501)-280-4901

SHORT TITLE OF THIS RULE	Proposed revisions to the Arkansas Rules &
Regulations for Trauma Systems.	

Regulations for 11 aunia Systems.
1. Does this proposed, amended, or repealed Rule or Regulation have a financial
impact?
Yes NoX
2. Please estimate the cost of compliance to regulated entities & others outside the
department. Identify any financial impact on municipalities or counties.

3. If you believe that the development of a financial impact statement is so speculative as to be cost prohibitive, please explain.

Not Applicable

Not Applicable

4. If the purpose of this Rule or Regulation is to implement a federal Rule or Regulation, please give the incremental cost for implementing the Regulation.

Not Applicable

Fiscal Year	<u>Fiscal Year</u>
General Revenue	General Revenue
Federal Funds	Federal Funds
Cash Funds	Cash Funds
Special Revenue	Special Revenue
Other	Other
Total	Total

5. What is the total estimated cost by fiscal year to any entity or individual subject to the proposed, amended, or repealed Rule or Regulation?

Fiscal Year	Fiscal Year						
6. What is the total estimated cost by fiscal year to the agency to implement this							
Regulation?							

Regulation?						٠.	
	Fiscal Y	<u>Tear</u>		Fiscal Year	:		
			:				

7. Does the Proposed Rule impose a cost on state or local school districts? **NO** If yes, then file a fiscal impact statement.

References:

Act 559 of 1993