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1 **CHAPTER THREE - DESIGNATION OF TRAUMA FACILITIES**

2 Purpose and Authority for Rules

3 These rules address the designation process for trauma facilities, the enforcement and disciplinary
4 procedures applicable to trauma facilities, and the designation criteria for Level I through V trauma
5 facilities. The authority for the promulgation of these rules is set forth in Section 25-3.5-701 *et seq.*,
6 C.R.S.

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19 **300. Definitions**

20 1. Advanced Trauma Life Support (ATLS) or equivalent - The training provided in accordance with
21 the American College of Surgeons curriculum for Advanced Trauma Life Support. An equivalent
22 program is one which has been approved by the department. The burden shall be upon the
23 applicant to prove that the program is equivalent to ATLS.

24 2. Consultation - Telephone or telemedicine, as specified in this chapter, to determine the necessity
25 of transfer and the circumstances of transfer, including but not limited to additional
26 diagnostic/therapeutic issues, availability of resources and weather conditions. Consultation
27 occurs between the attending trauma surgeon (or physician in a Level IV facility) of a referring
28 facility and an attending trauma surgeon (who is a member of the attending staff) at a receiving
29 facility. Trauma consultation shall include written documentation completed by the trauma
30 surgeon at the Levels II and III facilities, or the attending physicians at the Level IV facility.
31 Disagreements as to patient disposition will be documented at both facilities.

32 3. Core group - the core group of surgeons is comprised of those surgeons identified by the trauma
33 medical director who provide coverage for at least 60 percent of the trauma call schedule.

34 4. Critical Injuries (Adult) - Critical injuries for adult patients are defined as any of the following:

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- 1 A. Bilateral pulmonary contusions requiring nontraditional ventilation,
- 2 B. Multi-system trauma with pre-existing coagulopathy (hemophilia),
- 3 C. Pelvic fractures with unrelenting hemorrhage,
- 4 D. Aortic tears,
- 5 E. Liver injuries with vena cava injury or requiring emergency surgery with liver packing.
- 6 5. Critical Injuries (Pediatric) - Critical injuries for pediatric patients (age 0-14 years) are defined as
7 any of the following:
- 8 A. Bilateral pulmonary contusions requiring nontraditional ventilation,
- 9 B. Multi-system trauma with pre-existing or life threatening coagulopathy (hemophilia),
- 10 C. Pelvic fractures with unrelenting hemorrhage,
- 11 D. Aortic tears,
- 12 E. Liver injuries with vena cava injury or requiring emergency surgery with liver packing,
- 13 F. Coma for longer than 6 hours or with focal neurologic deficit.
- 14 6. Department - The Colorado Department of Public Health and Environment, unless the context
15 requires otherwise.
- 16 7. Divert - Redirection of the trauma patient to a different receiving facility. Redirection shall be in
17 accordance with the prehospital trauma triage algorithmS, as set forth in 6 CCR 1015-44, Chapter
18 2 TWO. Reasons for going on divert are limited to lack of critical equipment or staff; operating
19 room, emergency department, or intensive care unit saturation; disaster or facility structural
20 compromise.
- 21 8. KEY RESOURCE FACILITIES – LEVEL I AND II DESIGNATED TRAUMA CENTERS WHICH HAVE AN EXPANDED
22 RESPONSIBILITY IN PROVIDING ON-GOING CONSULTATION, EDUCATION AND TECHNICAL SUPPORT TO
23 REFERRING FACILITIES, INDIVIDUALS, OR RETACS.
- 24 ~~89.~~ Met with reservations - Evidence of some degree of compliance with regulatory standards, but
25 where further action is required for full compliance.
- 26 ~~910.~~ Morbidity and Mortality Review - A case presentation of all complications, deaths and cases of
27 interest for educational purposes to improve overall care to the trauma patient. Case
28 presentations shall include all aspects and contributing factors of trauma care from pre-hospital
29 care to discharge or death. The multi-disciplinary group of health professionals shall meet on a
30 regular basis, but not less than every two months. The documentation of the review shall include
31 date, reason for review, problem identification, corrective action, resolution and education.
32 Documented minutes shall be maintained on site and readily available.
- 33 ~~4011.~~ Multidisciplinary Trauma Committee - This committee is responsible for the development,
34 implementation and monitoring of the trauma program at each designated trauma center.
35 Functions include but are not limited to: establishing policies and procedures; reviewing process
36 issues, e.g., communications; promoting educational offerings; reviewing systems issues, e.g.,
37 response times and notification times; and reviewing and analyzing trauma Registry data for

- 1 program evaluation and utilization. Attendance required will be established by the committee.
2 Membership will be established by the facility.
- 3 4412. Outreach - The act of providing resources to other facilities in order to improve response to the
4 injured patient. These resources shall include, but not be limited to, clinical consultation and
5 public and professional education. Trauma centers shall be centers of excellence and shall share
6 this expertise with other trauma centers and non-designated facilities. Timely and appropriate
7 communication, consultation and feedback are imperative to patient outcome. ~~Key Resource~~
8 ~~Facilities are Level I & II trauma centers which have an expanded responsibility in providing on-~~
9 ~~going consultation, education and technical support to referring facilities, individuals, or RETACs.~~
- 10 4213. Plan of correction - Identifies how the facility plans to correct deficiencies or standards identified
11 as met with reservations cited in the department's written notice to the facility, within an identified
12 timeline. A plan of correction may also be required to meet a waiver request or fulfill a request
13 from the department to address a temporary issue identified by the department or the facility.
- 14 4314. Promptly Available - Unless otherwise specified, promptly available shall be a facility-defined
15 timeframe based on current standards of clinically appropriate care.
- 16 4415. Quality/Performance Improvement Program - A defined plan for the process to monitor and
17 improve the performance of a trauma program is essential. This plan shall address the entire
18 spectrum of services necessary to ensure optimal care to the trauma patient, from pre-hospital to
19 rehabilitative care. This plan may be parallel to, and interactive with, the hospital-wide quality
20 improvement program but shall not be replaced by the facility process.
- 21 4516. Regional Emergency Medical and Trauma Advisory Council (RETAC) - The representative body
22 appointed by the governing bodies of counties or cities and counties for the purpose of providing
23 recommendations concerning regional area emergency medical and trauma service plans for
24 such counties or cities and counties.
- 25 4617. State Emergency Medical and Trauma Services Advisory Council (SEMTAC) - The council
26 created in the department pursuant to ~~§~~section 25-3.5-104, C.R.S.
- 27 4718. Special Audit for Trauma Deaths - All trauma deaths shall be audited. A comprehensive review
28 audit shall be initiated by the Trauma ~~Service~~-MEDICAL Director in Levels I, II, III facilities and by
29 the appropriate personnel designated by the Level IV AND V facilities. The trauma nurse
30 coordinator shall participate in these audits. A written critique shall be used to document the
31 process to include the assessment, corrective action and resolution.
- 32 4819. Trauma Nurse Coordinator - The terms "trauma nurse coordinator," "trauma coordinator" and
33 "trauma program manager" are used interchangeably in these regulations (6 CCR 1015). The
34 trauma nurse coordinator (TNC) works to promote optimal care for the trauma patient through
35 PARTICIPATION IN the clinical programs, administrative functions, and professional and public
36 education. The TNC shall be actively involved in the state trauma system. The essential
37 responsibilities of the TNC include maintenance of the trauma registry, continuous quality
38 improvement in trauma care, and educational activities to include injury prevention.
- 39 4920. Trauma Nurse Core Course (TNCC) or ~~E~~Equivalent - the training provided in accordance with the
40 Emergency Nurses Association curriculum. An equivalent program is one that has been approved
41 by the ~~D~~Department. The burden shall be upon the applicant to prove that the program is
42 equivalent to the TNCC.
- 43 2021. Trauma Service - The Trauma Service is an organized, identifiable program which includes: a
44 Trauma ~~Service~~ MEDICAL Director, a Trauma Nurse Coordinator, a Multi-disciplinary Trauma

- 1 Committee, Quality Improvement Program, Injury Prevention and Data Collection/Trauma
2 Registry.
- 3 ~~2422.~~ Trauma Medical Director - The Trauma Medical Director is a board certified general surgeon who
4 is responsible for: service leadership, overseeing all aspects of trauma care, and administrative
5 authority for the hospital trauma program including: trauma multidisciplinary committee, trauma
6 quality improvement program, physician appointment to and removal from trauma service, policy
7 and procedure enforcement, peer review, trauma research program, and key resource facility
8 functions, if applicable; participates in the on-call schedule; practices at the facility for which
9 he/she is medical director on a full time basis; and participates in all facility trauma-related
10 committees. In Level I facilities, the ~~†~~Trauma service MEDICAL dDirector shall participate in an
11 organized trauma research program with regular meetings with documented evidence of
12 productivity. In Level IV, the Trauma Medical Director may be a physician so designated by the
13 hospital who takes responsibility for overseeing the program.
- 14 ~~2223.~~ Trauma Team - A facility-defined team of clinicians and ancillary staff, including those required by
15 these rules.
- 16 ~~2324.~~ Trauma Team Activation - A facility-defined method (protocol) for notification of the trauma team
17 of the impending arrival of a trauma patient based on the prehospital trauma triage algorithms as
18 set forth in 6 CCR 1015-4, Chapter ~~2~~TWO.
- 19 ~~2425.~~ Verifiable, External Continuing Medical Education (CME) - A facility-defined, trauma-related
20 continuing medical education program outside the facility, or a program given within the facility by
21 visiting professors or invited speakers, or teaching an ATLS course.
- 22 ~~2526.~~ Waiver - A waiver is an exception to the trauma rules approved by the department. The request
23 for a waiver shall demonstrate that the alternative meets the intent of the rule. Waivers are
24 generally granted for a limited term and shall be granted for a period no longer than the
25 designation cycle. Waivers cannot be granted for any statutory requirement under state or federal
26 law, requirements under state licensing, federal certification or local safety, fire, electrical,
27 building, zoning or similar codes.
- 28 **301. Designation Process**
- 29 1. General Provisions
- 30 A. Any Colorado facility receiving trauma patients by ambulance or other means shall follow
31 the process for designation or non-designation based upon its operational status as set
32 forth in 301.2.A.
- 33 B. Healthcare facilities shall have state licensure before obtaining designation as a trauma
34 center.
- 35 C. A separate designation is required for each distinct physical location where a facility
36 provides trauma care services.
- 37 2. Process to be Applied
- 38 A. The current operational status of the facility will determine the designation process to be
39 applied. The four types of operational status are:

- 1 (1) New facility - a hospital, community clinic and emergency center (CCEC), or
2 other licensed facility that is seeking trauma center designation for the first time
3 or seeking to change to a different level of designation.
- 4 (2) Replacement facility - an existing trauma center requesting designation at the
5 current level for a new physical location and not retaining trauma center status at
6 the old location.
- 7 (3) Existing facility renewal - a currently designated trauma center seeking renewal
8 at the same designation level.
- 9 (4) Non-designated facility - a hospital, CCEC or other licensed facility that receives
10 and is accountable for injured persons, but chooses not to seek trauma center
11 designation.

12 B. The specific administrative and clinical criteria for each of the Level I-V designations are
13 set forth in sections 303 ~~and~~ THROUGH SECTION 3047 of this chapter.

14 C. Applications for designation are public documents. The facility is responsible for
15 identifying any proprietary information. Proprietary documents are defined here as those
16 that are protected by copyright, or are used, produced or marketed under exclusive legal
17 right of the facility.

18 D. At any time, the department may move to revoke, suspend or otherwise limit a facility's
19 designation consistent with the enforcement and disciplinary process contained in
20 section 302 of this chapter.

21 3. New Facility

22 A. Application Procedure

23 (1) A new facility shall submit a written notice to the department at least 180 days in
24 advance of either the anticipated date of opening or commencement of operation
25 at a higher designation level. Facilities moving to a lower level of designation
26 shall provide notice no later than 90 days in advance. The notice shall state the
27 level of designation the facility is requesting.

28 (2) The facility shall complete a trauma designation application for new facilities on
29 the department's form and submit it along with the designation fee before the site
30 visit according to the deadline specified by the department.

31 (3) After an initial assessment of the application by the department, the facility shall
32 have ten (10) calendar days to respond to written notice of any application
33 deficiency.

34 (4) If a facility does not correct application deficiencies in a timely manner, the
35 department may delay or cancel the review process. The department may also
36 consider the facility's failure to respond in a timely manner as grounds for denial
37 of designation.

38 B. Fee Structure

39 The facility shall submit the non-refundable designation fee with its application. The new
40 facility designation fee is:

Level I:	\$20,000
Level II:	\$19,800
Level III:	\$14,330
Level IV:	\$ 6,800
Level V:	\$ 6,800

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C. Site Review Procedure

- (1) Any facility requesting a new Level I through V designation shall undergo an on-site review. The department will set a review date no more than ninety (90) days before the new facility opens or commencement of operation at the new designation level.
- (2) All equipment and policies for the requested designation level as currently required by ~~sections 303 and~~ THROUGH 304Z of this chapter shall be in place for inspection or evidence of their placement shall be provided to the department before the facility's opening or commencement of operation at the new designation level.
- (3) All personnel for the requested designation level as currently required by ~~sections 303~~ THROUGH 307 of this chapter shall be identified and available for interview.
- (4) The department will select the new facility review team according to the following specifications:
 - a. Level I-II facilities:
 - i. A minimum of one trauma surgeon and one trauma nurse who live and work outside the State of Colorado,
 - ii. One state observer,
 - iii. Departmental discretion to designate additional reviewers up to a full team as set forth in 301.5.C(1)a of this section.
 - b. Level III facilities:
 - i. A minimum of one trauma surgeon and one trauma nurse who live and work outside the facility's RETAC area,
 - ii. One state observer,
 - iii. Departmental discretion to designate additional reviewers up to a full team as set forth in 301.5.C(1)b of this section.
 - c. Level IV-V facilities:

- 1 j. Review of the facility's planned interaction with prehospital transport, and
- 2 k. Other documents deemed appropriate by the department.

3 (9) The review team shall provide a verbal report of its findings to the applicant
4 before leaving the facility.

5 D. Designation Decision Procedure

6 (1) The department shall present a summary of the Level I-II results to SEMTAC or a
7 summary of the Level III-V results to the Designation Review Committee (DRC)
8 for a recommendation on the new facility designation.

9 (2) The department shall consider all evidence and notify the applicant in writing of
10 its decision within thirty (30) calendar days of receiving the recommendation.

11 (3) The department's final determination regarding each application shall be based
12 upon consideration of all pertinent factors including, but not limited to, the
13 application, the evaluation and recommendations of the on-site review team, the
14 recommendation from SEMTAC or DRC, the best interests of trauma patients,
15 and any unique attributes or circumstances that make the facility capable of
16 meeting particular or special community needs.

17 (4) If the department denies new facility designation, the provisions of ~~section~~ 302.
18 of this chapter shall apply.

19 E. Period of Designation

20 (1) A new facility designation is a one-time designation valid for 18 months.

21 (2) Once a new facility designation is issued, the facility will coordinate with the
22 department to schedule a full review within 12-14 months.

23 (3) Prior to the full review, the facility shall follow the application procedures
24 described in 301.5.A(2) through (4).

25 (4) The subsequent site review and designation decision procedures shall follow
26 those described for renewal of existing facilities at 301.5.C and B THROUGH D.

27 (5) Designation following the full review will mark the beginning of a full three-year
28 designation cycle.

29 4. Replacement Facility

30 ~~Any facility that has applied for replacement facility designation before the effective date of these~~
31 ~~rules and whose site review occurs after the effective date of these rules shall be exempt from~~
32 ~~section 301.4.A(3) and B.~~

33 A. Application Procedure

34 (1) A trauma designation review is required when the department issues a new
35 hospital or CCEC license based upon a change of location.

- 1 (2) A replacement facility shall submit a written notice to the department at least 180
2 days in advance of the anticipated date of opening.
- 3 (3) The facility shall provide the department with a copy of its last renewal
4 application along with updated statistical data and information on any policy
5 changes. The facility shall submit the application, designation fee and additional
6 information to the department before the site visit according to the specified
7 deadline.
- 8 (4) After an initial assessment of the application and updated information by the
9 department, the facility shall have ten (10) calendar days to respond to written
10 notice of any application deficiency.
- 11 (5) If a facility does not correct application deficiencies in a timely manner, the
12 department may delay or cancel the review process. The department may also
13 consider the facility's failure to respond in a timely manner as grounds for denial
14 of designation.
- 15 (6) The facility will coordinate with the department to schedule a date for the
16 replacement review to occur no sooner than the move to the replacement
17 physical plant and no later than thirty (30) calendar days after the move.
- 18 (7) The facility's existing trauma designation continues until a replacement review
19 occurs and the department makes a decision on the replacement facility
20 application.

21 B. Fee Structure

22 The facility shall submit the non-refundable designation fee with its application. The
23 replacement facility designation fee is:

Level I:	\$8,700
Level II:	\$8,100
Level III:	\$3,080
Level IV:	\$2,800
Level V:	\$2,800

24 C. Site Review Procedure

- 25 (1) Any facility requesting replacement designation at the same level for a new
26 physical plant shall undergo an on-site review at the new location.
- 27 (2) All equipment and policies required by the facility's current designation level shall
28 be in place for inspection at the replacement facility.
- 29 (3) The department will select the site review team for the replacement facility
30 according to the following specifications:
- 31 a. Level I-II facilities:

- 1 i. A minimum of one trauma surgeon and one trauma nurse who
2 live and work outside the State of Colorado,
- 3 ii. One state observer,
- 4 iii. Departmental discretion to designate additional reviewers up to a
5 full team as set forth in 301.5.C(1)a.
- 6 b. Level III-V facilities:
 - 7 i. A minimum of one trauma nurse who lives and works outside the
8 facility's RETAC area,
 - 9 ii. One state observer,
 - 10 iii. Departmental discretion to designate additional reviewers up to a
11 full team as set forth in 301.5.C(1)b and c.
- 12 (4) All review team members shall also meet the following criteria:
 - 13 a. Physician reviewers shall be certified by the American Board of Medical
14 Specialties or the American Board of Osteopathic Medicine,
 - 15 b. Physician reviewers shall be board certified in the specialty they are
16 representing,
 - 17 c. Be currently active in trauma care at the level being reviewed or above,
 - 18 d. Have no conflict of interest with the facility under review, and
 - 19 e. Live and work outside the facility's RETAC area.
- 20 (5) The department will provide the applicant with the names of the on-site reviewers
21 once they have been selected.
- 22 (6) If the applicant believes that a potential reviewer has a financial, professional or
23 personal bias that may adversely affect the review, the facility shall notify the
24 department, in writing, no later than seven (7) calendar days after the
25 department's announcement of the proposed team members. Such notice shall
26 contain all details of any alleged bias along with supporting documentation. The
27 department shall consider such notice and make a decision concerning
28 replacement of the reviewer in question.
- 29 (7) The on-site review may consist of, but is not limited to, consideration of the
30 following:
 - 31 a. Equipment check throughout the facility,
 - 32 b. Physical inspection of facility,
 - 33 c. Review of all policies and procedures,
 - 34 d. Interviews with staff,

1 e. Review of effects of the facility move on prehospital transport protocols,
2 and

3 f. Other documents deemed appropriate by the department.

4 (8) The team shall provide a verbal report of its findings to the applicant before
5 leaving the facility.

6 D. Designation Decision Procedure

7 The designation decision procedure shall follow the one described for existing facility
8 renewal at section 301.5.D of this chapter.

9 E. Designation Period

10 Designation following the replacement review will continue until the end of the facility's
11 existing designation cycle.

12 5. Renewal of Existing Facility

13 A. Application Procedure

14 (1) Existing facilities shall submit a letter of intent to maintain their current trauma
15 level designation to the department no later than 120 days before the current
16 designation expiration date.

17 (2) The facility shall complete a trauma designation application for renewal of
18 existing facilities on the department's form and submit it to the department before
19 the site visit according to the deadline specified by the department.

20 (3) After an initial assessment of the application by the department, the facility shall
21 have ten (10) calendar days to respond to written notice of any application
22 deficiency.

23 (4) If a facility does not correct application deficiencies in a timely manner, the
24 department may delay or cancel the review process. The department may also
25 consider the facility's failure to respond in a timely manner as grounds for denial
26 of designation.

27 B. Fee Structure

28 (1) The facility shall submit the required designation fee in the manner specified by
29 the department. The renewal of existing facility designation fee is:

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Level I:	\$26,600 \$34,200
Level II:	\$25,900 \$34,200
Level III:	\$16,600
Level IV : IV/V: EMERGENCY DEPARTMENT VISITS > 25,000 PER YEAR	\$6,800 \$11,100
Level V : IV/V: EMERGENCY DEPARTMENT VISITS BETWEEN 10,000 - 25,000 PER YEAR	\$6,800 \$8,000

LEVEL IV/V: EMERGENCY DEPARTMENT VISITS BETWEEN 5,000 - 9,999 PER YEAR	\$7,200
LEVEL IV/V: EMERGENCY DEPARTMENT VISITS < 5,000 PER YEAR	\$6,800

- 1 (2) Fees submitted with the renewal application may be forfeited if the facility does
- 2 not respond in a timely manner to application deficiencies.
- 3 (3) FACILITIES REQUESTING SIMULTANEOUS VERIFICATION BY THE AMERICAN COLLEGE OF
- 4 SURGEONS (ACS) AT THE TIME OF THE COLORADO STATE TRAUMA DESIGNATION
- 5 SURVEY SHALL PAY ONE HUNDRED PERCENT OF ANY INCREASE IN THE ACS
- 6 VERIFICATION FEES OVER THE CALENDAR YEAR 2010 FEES.
- 7 (4) THESE FEES SHALL APPLY TO ALL ON-SITE TRAUMA REVIEWS CONDUCTED SUBSEQUENT
- 8 TO THE EFFECTIVE DATE OF THESE RULES.

9 C. Site Review Procedure

- 10 (1) The department will select the site review members for renewal of an existing
- 11 facility designation according to the following specifications:
- 12 a. Level I-II facilities - An out-of-state multidisciplinary team consisting of
- 13 two trauma surgeons, one trauma nurse coordinator or RN involved in
- 14 trauma program management, one emergency physician, and one state
- 15 observer.
- 16 b. Level III facilities - A team consisting of one trauma surgeon, one
- 17 emergency physician, one trauma nurse coordinator or registered nurse
- 18 involved in trauma program management and one state observer.
- 19 c. Level IV-V facilities - A team consisting of one emergency physician or
- 20 trauma surgeon, one trauma nurse coordinator or registered nurse
- 21 involved in trauma program management and one state observer.
- 22 (2) All review team members shall also meet the following criteria:
- 23 a. Physician reviewers shall be certified by the American Board of Medical
- 24 Specialties or the American Board of Osteopathic Medicine,
- 25 b. Physician reviewers shall be board certified in the specialty they are
- 26 representing,
- 27 c. Be currently active in trauma care at the level being reviewed or above,
- 28 d. Have no conflict of interest with the facility under review, and
- 29 e. Live and work outside the facility's RETAC area.
- 30 (3) The department will provide the applicant with the names of the on-site reviewers
- 31 once they have been selected.
- 32 (4) If the applicant believes that a potential reviewer has a financial, professional or
- 33 personal bias that may adversely affect the review, the facility shall notify the

1 department, in writing, no later than seven (7) calendar days after the
 2 department's announcement of the proposed team members. Such notice shall
 3 contain all details of any alleged bias along with supporting documentation. The
 4 department shall consider such notice and make a decision concerning
 5 replacement of the reviewer in question.

6 (5) The on-site review team shall evaluate the capability of the facility to meet the
 7 responsibilities, required equipment and performance criteria appropriate to its
 8 designation level as identified in these rules through the following:

- 9 a. Review of application,
- 10 b. Physical inspection of the facility,
- 11 c. Review of trauma patient medical records,
- 12 d. Review of patient discharge summaries,
- 13 e. Review of patient care logs,
- 14 f. Review of quality improvement/management/assurance records and
 15 meeting minutes,
- 16 g. Review of rosters, schedules and meeting minutes,
- 17 h. Interviews with appropriate facility personnel and other medical
 18 providers,
- 19 i. Review of research, prevention, and educational programs as applicable,
 20 and
- 21 j. Review of other documents as deemed appropriate by the team.

22 (6) The review team shall provide a verbal report of its findings to the applicant
 23 before leaving the facility.

24 D. Designation Decision Procedure

25 (1) The department shall present a summary of the Level I-II results to SEMTAC or a
 26 summary of the Level III-V results to the Designation Review Committee (DRC)
 27 for a recommendation to the department on the facility designation.

28 (2) If the department determines that a plan of correction is appropriate, the facility
 29 shall follow the process set forth in section 302.2 of this chapter.

30 (3) The department shall notify the applicant in writing of its decision within thirty (30)
 31 calendar days of receiving the recommendation.

32 (4) The department's final determination regarding each application shall be based
 33 upon consideration of all pertinent factors, including but not limited to the
 34 application, the evaluation and recommendations of the on-site review team, the
 35 recommendation from SEMTAC or DRC, compliance history, the best interests of
 36 trauma patients, and any unique attributes or circumstances that make the facility
 37 capable of meeting particular or special community needs.

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1 (5) If the department denies renewal of existing facility designation, the provisions of
2 ~~section 302.34~~ of this chapter shall apply.

3 E. Period of Designation

4 Renewal of existing facility designation will be valid for three years from the prior
5 expiration date, unless voluntarily relinquished by the facility, revoked, suspended or
6 otherwise sanctioned pursuant to these rules.

7 6. Non-designated Facility

8 A. A facility requesting non-designation status shall file a non-designation agreement that, at
9 a minimum, states the following:

10 (1) The facility chooses not to seek such designation.

11 (2) The facility acknowledges and agrees that it may only treat patients who have
12 single system injuries that are not threatening to life or limb and whose care is
13 not complicated by co-morbid conditions.

14 (3) The facility has established transfer agreements as required by Section 25-3.5-
15 703(4)(a), C.R.S.

16 (4) Within two hours of recognition that a patient has experienced a significant injury
17 or mechanism as defined in 6 CCR 1015-4, CHAPTER TWO, ~~section 202.C, 202.D~~
18 or the prehospital algorithms, the facility shall resuscitate, stabilize and/or initiate
19 transfer of the patient, after consultation with a trauma surgeon or emergency
20 physician at the closest designated trauma center, as required by 6 CCR 1015-4,
21 CHAPTER TWO, Section 202.C.4 AND SECTION 202.D.9. Transfer shall be to the
22 closest appropriate trauma facility as defined by RETAC protocols and as
23 determined in consultation with the trauma surgeon or emergency physician.

24 7. Waivers

25 A. The department may grant a waiver from one or more criteria that are established in this
26 chapter for Level I-V trauma centers.

27 B. Facilities seeking a waiver shall submit a completed waiver application on the
28 department's form. The department may require the applicant to provide additional
29 information, and the application will not be considered complete until the required
30 information is provided.

31 C. The facility seeking the waiver shall also post notice of the waiver application and a
32 meaningful description of the substance of the request at all public entrances to the
33 facility and in at least one area commonly used by the patients. The notice shall be
34 posted no later than the application's submission date and shall remain posted for at
35 least thirty (30) calendar days.

36 D. The notice shall describe where to send comments within that 30-day period. Comments
37 should be directed to:

38 EMTS Section

39 ATTN: Section Chief

1 CDPHE, HFEMSD-A2
2 4300 Cherry Creek Drive South
3 Denver, CO 80246

4 E. At the same time the notice is posted in the facility, the facility shall also distribute a copy
5 of the notice to prehospital emergency medical service providers active in the community
6 served by the facility.

7 F. The completed waiver application shall be submitted to the department at least thirty (30)
8 calendar days before a SEMTAC meeting in order to be placed on the next agenda.
9 Applications completed less than thirty (30) calendar days in advance will be placed on
10 the subsequent agenda.

11 G. The department shall distribute a copy of the public notice of the SEMTAC meeting
12 regarding the waiver to all other designated trauma centers.

13 H. SEMTAC shall review the request and make recommendations to the department. The
14 department shall make a decision and send notice of that decision to the facility
15 administrator within thirty (30) calendar days of the recommendation.

16 (1) If the waiver is granted, the department may:

17 a. Specify the terms and conditions of the waiver.

18 b. Specify the duration of the waiver. Under no circumstances shall a
19 waiver be granted for a period longer than the designation cycle for that
20 facility.

21 (2) The department may require the submission of progress reports from any facility
22 granted a waiver.

23 (3) If the waived rule is amended or repealed, obviating the need for the waiver, the
24 waiver shall expire on the effective date of the rule change.

25 I. A facility shall notify the department prior to any change of ownership of the facility as
26 defined in 6 CCR 1011-1, Chapter II, Part 2.9-47.

27 J. Facilities wishing to maintain a waiver beyond its expiration shall submit a new waiver
28 application to the department no less than ninety (90) days prior to the expiration of the
29 waiver.

30 K. The department may revoke or suspend a waiver if it determines:

31 (1) That its continuation jeopardizes the health, safety, and/or welfare of the patients,

32 (2) The applicant has provided false or misleading information in the waiver
33 application,

34 (3) The applicant has failed to comply with conditions of the waiver, or

35 (4) The department determines that a change in federal or state law prohibits
36 continuation of the waiver.

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1 L. If the department denies, revokes or suspends a waiver, the pertinent provisions of
2 ~~sections 302.3, 302.4, or 302.5~~, OR 302.6 of this chapter shall apply.

3 8. Designation Review Committee

4 A. The Designation Review Committee (DRC) shall make recommendations to the
5 department about the designation of Level III-V facilities and shall report such
6 recommendations to SEMTAC.

7 B. The DRC shall be comprised of nine members. A minimum of five members shall be
8 current SEMTAC members. The members shall represent the following constituencies
9 and disciplines:

10 (1) One healthcare facility administrator,

11 (2) One board-certified general surgeon;

12 (3) One board-certified general surgeon with experience as a site reviewer or a
13 trauma ~~service~~ MEDICAL director at a Level III-V facility,

14 (4) One physician board-certified in emergency medicine,

15 (5) One physician board-certified in emergency medicine with experience as a site
16 reviewer or a trauma ~~service~~ MEDICAL director at a Level III-V facility,

17 (6) One trauma program manager or trauma nurse coordinator,

18 (7) One trauma program manager or trauma nurse coordinator with experience as a
19 site reviewer or a Level III-V trauma nurse coordinator,

20 (8) One member representing the prehospital/EMS community/or public, and

21 (9) One member representing a RETAC.

22 C. SEMTAC shall make recommendations to the department on the membership of the
23 DRC along with the criteria to be used by the DRC.

24 D. The DRC meetings shall be public.

25 E. The DRC shall have access to a facility's application with any proprietary material
26 extracted, a summary of the site review finding, and any plan of correction submitted by
27 the facility.

28 **302. Enforcement and Disciplinary Process**

29 1. **Unscheduled, or Interim, FOCUSED OR RE- Reviews**

30 A. At any time the department may require and conduct an unscheduled or interim, FOCUSED
31 OR RE- review of a currently designated facility based upon, but not limited to, the
32 following criteria:

33 (1) Recent review results,

34 (2) A complaint, or

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- 1 (3) Monitoring of the EMTS system.
- 2 2. Plans of Correction
- 3 A. Prior to making a designation decision, or after an unscheduled or interim, FOCUSED OR
4 RE- review, the department shall require a plan of correction from any facility with review
5 deficiencies and/or met with reservations.
- 6 B. A plan of correction shall include, but not be limited to, the following:
- 7 (1) Identification of the problem(s) with the current activity and what the facility will
8 do to correct each deficiency,
- 9 (2) A description of how the facility will accomplish the corrective action,
- 10 (3) A description of how the facility will monitor the corrective action to ensure the
11 deficient practice is remedied and will not recur,
- 12 (4) A timeline with the expected implementation and completion date. Completion
13 date is the date that the facility deems it can achieve compliance.
- 14 C. Completed plans of correction shall be:
- 15 (1) Submitted to the department in the form and manner required by the department,
- 16 (2) Submitted within thirty (30) calendar days after the date of the department's
17 written notice of deficiencies and/or criteria identified as met with reservations
18 when areas of non-compliance with rules pertaining to the designation of trauma
19 centers have been identified, and
- 20 (3) Signed by the facility administrator and facility trauma director.
- 21 D. The department has the discretion to approve, modify or reject plans of correction.
- 22 (1) If the plan of correction is accepted, the department shall notify the facility by
23 issuing a written notice of acceptance within thirty (30) calendar days of receipt of
24 the plan.
- 25 (2) If the plan of correction is unacceptable, the department shall notify the facility in
26 writing, and the facility shall re-submit changes to the department within fifteen
27 (15) calendar days of the date of the written notice.
- 28 (3) If the facility fails to comply with the requirements or deadlines for submission of
29 a plan or fails to submit requested changes to the plan, the department may
30 reject the plan of correction and impose disciplinary sanctions as set forth below.
- 31 (4) If the facility fails to timely implement the actions agreed to in the plan of
32 correction, the department may impose disciplinary sanctions as set forth below.
- 33 3. RE-REVIEW FEE STRUCTURE
- 34 A. IN THE EVENT THE DEPARTMENT DESIGNATES A FACILITY WITH A REQUIRED INTERIM, FOCUSED
35 OR RE-REVIEW PER SECTION 302.1.A. (1) ABOVE, THE FACILITY SHALL SUBMIT THE REQUIRED

1 FEE IN THE MANNER SPECIFIED BY THE DEPARTMENT. THE METHODOLOGY USED TO DETERMINE
 2 THE RE-REVIEW FEE FOR AN EXISTING FACILITY IS:

3

LEVELS I AND II:	100% OF COSTS OF REVIEW TEAM EXCLUDING STATE OBSERVER TIME
LEVELS III THROUGH V:	75% OF COSTS OF REVIEW TEAM EXCLUDING STATE OBSERVER TIME

4 B. THESE FEES SHALL APPLY TO ALL ON-SITE TRAUMA RE-REVIEWS CONDUCTED SUBSEQUENT TO
 5 THE EFFECTIVE DATE OF THESE RULES.

6 ~~34.~~ Denials

7 A. The department may deny an application for Level I-V designation to a new, replacement
 8 or existing facility for reasons including, but not limited to, the following:

- 9 (1) The facility does not meet the criteria for designation as set forth in these
 10 regulations,
- 11 (2) The facility's application or accompanying documents contain a false statement
 12 of material fact,
- 13 (3) The facility refuses any part of an on-site review,
- 14 (4) The facility's failure to comply with or to successfully complete a plan of
 15 correction, or
- 16 (5) The facility is substantially out of compliance with any of the department's
 17 regulations.

18 B. If the facility does not meet the level of designation criteria for which it has applied, the
 19 department may recommend designation at a lesser level. Such action, unless agreed to
 20 by the applicant, shall represent a denial of the application.

21 C. If the department denies an application for designation or waiver, the department shall
 22 provide the facility with a notice explaining the basis for the denial. The notice shall also
 23 inform the facility of its right to appeal the denial and the procedure for appealing the
 24 denial.

25 D. Appeals of departmental denials shall be conducted in accordance with the State
 26 Administrative Procedure Act, Section 24-4-101, *et seq.*, C.R.S.

27 ~~45.~~ Revocation or Temporary Suspension

28 A. The department may revoke the designation of a facility if any owner, officer, director,
 29 manager, or other employee:

- 30 (1) Fails or refuses to comply with the provisions of these regulations,
- 31 (2) Makes a false statement of material fact about facility capabilities or other
 32 pertinent circumstances in any record or in a matter under investigation for any
 33 purposes connected with this chapter,

- 1 (3) Prevents, interferes with, or attempts to impede in any way, the work of a
2 representative of the department in implementing or enforcing these regulations
3 or the statute,
- 4 (4) Falsely advertises or in any way misrepresents the facility's ability to care for
5 trauma patients based on its designation status,
- 6 (5) Is substantially out of compliance with these regulations and has not rectified
7 such noncompliance,
- 8 (6) Fails to provide reports required by the registry or the state in a timely and
9 complete fashion, or
- 10 (7) Fails to comply with or complete a plan of correction in the time or manner
11 specified.
- 12 B. If the department revokes or temporarily suspends a designation or waiver, it shall
13 provide the facility with a notice explaining the basis for the action. The notice shall also
14 inform the facility of its right to appeal and the procedure for appealing the action.
- 15 C. Appeals of departmental revocations or suspensions shall be conducted in accordance
16 with the State Administrative Procedure Act, Section 24-4-101, *et seq.*, C.R.S.
- 17 56. Summary Suspension
- 18 A. The department may summarily suspend a designation or waiver if it finds, after
19 investigation, that a facility has engaged in a deliberate and willful violation of these
20 regulations or that the public health, safety, or welfare requires immediate action.
- 21 B. If the department summarily suspends a designation or waiver, it shall provide the facility
22 with a notice explaining the basis for the summary suspension. The notice shall also
23 inform the facility of its right to appeal and that it is entitled to a prompt hearing on the
24 matter.
- 25 C. Appeals of summary suspensions shall be conducted in accordance with the State
26 Administrative Procedure Act, Section 24-4-101, *et. seq.*, C.R.S.
- 27 67. Redesignation at a lesser level
- 28 A. The department may determine that a facility be redesignated at a lesser level due to the
29 facility's inability to meet the designation criteria at its current level, notwithstanding any
30 waiver previously granted.
- 31 B. If the department seeks to redesignate the facility, it shall provide the facility with a notice
32 explaining the basis for its action. The notice shall also inform the facility of its right to
33 appeal and the procedure for appealing the action.
- 34 C. Appeals of involuntary redesignation shall be conducted in accordance with the State
35 Administrative Procedure Act, Section 24-4-101, *et. seq.*, C.R.S.
- 36 78. Monetary Penalties

1 Any facility, provider or employee of a facility that falsely misrepresents a facility's designation
2 level or violates any rule adopted by the board shall be subject to a civil penalty of \$500 per
3 violation. The fee shall be assessed in accordance with Section 25-3.5-707(2), C.R.S.

4 **303 Trauma Facility Designation Criteria - Level I Facilities**

5 1. Prehospital Trauma Care Integration

6 A. The facility shall participate in the development and improvement of prehospital care
7 protocols and patient safety programs.

8 B. The trauma medical director shall be involved in the development of the trauma facility's
9 divert protocol as it affects the trauma service.

10 C. A trauma surgeon shall be involved in any decision regarding divert as it affects the care
11 of the trauma patient.

12 D. A liaison from the emergency department shall participate in prehospital peer
13 review/performance improvement.

14 2. Interfacility Consultation and Transfer Requirements

15 A. Provisions for direct physician-to-physician contact shall be included in the process of
16 transferring a patient between facilities.

17 B. A decision to transfer a patient shall be based solely on the clinical needs of the patient
18 and not on the requirements of the patient's specific provider network or the patient's
19 ability to pay.

20 C. If the facility does not have a burn service, a reimplantation service, a pediatric trauma
21 service or an acute rehabilitation service, the facility shall have written transfer guidelines
22 for patients in these categories.

23 3. Performance Improvement Process

24 A. General Provisions

25 (1) The facility shall demonstrate a clearly defined trauma performance improvement
26 program that shall be coordinated with the hospital-wide program.

27 (2) The facility shall be able to demonstrate that the trauma patient population can
28 be identified for separate review regardless of the institutional performance
29 improvement processes.

30 (3) Performance improvement shall be supported by a reliable method of data
31 collection that consistently obtains valid and objective information necessary to
32 identify opportunities for improvement. The process of analysis shall include
33 multidisciplinary review and shall occur at regular intervals to meet the needs of
34 the program. The results of analysis shall define corrective strategies and shall
35 be documented.

36 (4) The facility shall demonstrate that the trauma registry is used to support the
37 performance improvement program.

- 1 (5) The performance improvement program shall have defined audit filters based
2 upon a regular review of registry and/or clinical data.
- 3 (6) There shall be appropriate objectively defined standards to determine the quality
4 of care.
- 5 (7) If more than 10 percent of injured patients with an Injury Severity Score greater
6 than or equal to nine (excluding isolated hip fractures) are admitted to non-
7 surgical services, the trauma facility shall demonstrate the appropriateness of
8 that practice through the performance improvement program.
- 9 (8) Identified problem trends shall undergo peer review by the Peer
10 Review/Performance Improvement Committee.
- 11 (9) A representative from the emergency department shall participate in prehospital
12 peer review/performance improvement.
- 13 (10) The facility shall review any diversion or double transfer (from another facility and
14 then transferred for additional acute trauma care) of trauma patients.
- 15 (11) If a facility conducts an internal trauma educational process in lieu of external
16 trauma CME, that process shall be, at least in part, based on information from
17 the peer review/performance improvement process and the principles of practice-
18 based learning.
- 19 (12) The facility shall demonstrate that its graded activation criteria are regularly
20 evaluated by the performance improvement program.
- 21 (13) The Level I adult facility that admits only children with single extremity orthopedic
22 fracture or minor head trauma with a negative computed tomography exam shall
23 demonstrate the oversight of pediatric care through a pediatric-specific peer
24 review/performance improvement process.
- 25 (14) The Level I adult facility that admits children having other than single extremity
26 orthopedic fracture or minor head trauma with a negative computed tomography
27 exam shall have a pediatric-specific peer review/performance improvement
28 process, which shall include pediatric-specific process filters and outcome
29 measures.
- 30 (15) Physician availability to the trauma patient in the ICU shall be monitored by the
31 peer review/performance improvement program.
- 32 B. Multidisciplinary Trauma Committee
- 33 (1) The facility shall have a multidisciplinary committee to address trauma program
34 operational issues.
- 35 (2) A multidisciplinary trauma committee shall continuously evaluate the trauma
36 program's processes and outcomes.
- 37 (3) The committee shall include, at a minimum, the trauma medical director or
38 designee and all core surgeons as well as liaisons from orthopedic surgery,
39 neurosurgery, emergency medicine, radiology and anesthesia. Each of these
40 liaisons shall attend at least 50 percent of the meetings.

- 1 (4) The exact format of the committee may be hospital specific, but shall be
2 multidisciplinary and consist of hospital and medical staff members who work to
3 identify and correct trauma program system issues.
- 4 (5) The committee minutes shall reflect the review of operational issues and, when
5 appropriate, the analysis and proposed corrective actions. The process shall
6 identify problems and shall demonstrate problem resolution.
- 7 (6) The committee shall monitor compliance with all required time frames for
8 availability of trauma personnel, including, but not limited to response times for
9 general surgery, orthopedics, neurosurgery, anesthesiology, radiology, and
10 radiology, MRI or CT techs.
- 11 (7) The availability of anesthesia services and the absence of delays in airway
12 control or operations shall be monitored.
- 13 (8) Radiologists shall be involved in protocol development and trend analysis that
14 relate to diagnostic imaging.
- 15 (9) The multidisciplinary committee shall review and address issues related to the
16 availability of necessary personnel and equipment to monitor and resuscitate
17 patients in the PACU.
- 18 C. Peer Review/Performance Improvement Committee
- 19 (1) The facility shall have a Peer Review/Performance Improvement Committee
20 chaired by the trauma medical director or physician designee.
- 21 (2) The committee shall include, at a minimum, the core group of general surgeons
22 and a physician liaison from orthopedic surgery, neurosurgery, emergency
23 medicine, radiology and anesthesia. Each liaison shall attend at least 50 percent
24 of the meetings.
- 25 (3) Each liaison shall be available to the trauma medical director for committee
26 issues that arise in his or her department.
- 27 (4) The Peer Review/Performance Improvement Committee shall document
28 evidence of committee attendance and participation.
- 29 (5) The committee shall review the overall quality of care for the trauma service,
30 selected deaths, complications and sentinel events with the objective of
31 identifying issues and appropriate responses.
- 32 (6) Trauma patient care may be evaluated initially by individual specialties within
33 their usual departmental review structures; however, identified problem trends
34 shall undergo review within the Peer Review/Performance Improvement
35 Committee.
- 36 (7) The facility shall also, in this committee or in another appropriate forum, provide
37 for morbidity and mortality review of trauma cases. All trauma deaths shall be
38 systematically reviewed and categorized as preventable, non-preventable or
39 potentially preventable.

- 1 (8) When a consistent problem or inappropriate variation is identified, corrective
2 actions shall be taken and documented.
- 3 (9) The trauma medical director shall ensure dissemination of committee information
4 to all non-core general surgeons with documentation.
- 5 (10) The Peer Review/Performance Improvement Committee shall review and monitor
6 the organ donation rate.
- 7 (11) The committee shall demonstrate that the program complies with required
8 surgical response times at least 80% of the time.
- 9 (12) The peer review/performance improvement program shall monitor changes in
10 interpretation of diagnostic information.
- 11 4. Facility Organization and the Trauma Program
- 12 A. Facility Governing Body and Medical Staff Commitment
- 13 (1) The facility shall demonstrate the commitment of the facility's governing body and
14 medical staff through a written document. The document shall be reaffirmed
15 every three years and be current at the time of the site review.
- 16 (2) The administrative structure of the hospital/trauma facility shall include, at a
17 minimum, an administrator, a trauma medical director and a trauma program
18 manager.
- 19 B. Trauma Program
- 20 (1) A multidisciplinary trauma committee shall continuously evaluate the trauma
21 program's processes and outcomes.
- 22 (2) The trauma program members or a representative of the program shall
23 participate in state and regional trauma system planning, development and
24 operation.
- 25 (3) The trauma program shall have authority to address issues that involve multiple
26 disciplines. The trauma medical director shall have the authority and
27 administrative support to lead the program.
- 28 C. Trauma Medical Director
- 29 (1) The trauma medical director shall be a board-certified (not board-eligible)
30 surgeon, as those boards are defined under the "Clinical Requirements for
31 General Surgery" as described in Section 303.5.C or shall be a Fellow of the
32 American College of Surgeons with special interest in trauma care, shall take
33 trauma call and shall have successfully completed an ATLS course.
- 34 (2) The trauma medical director shall demonstrate membership and active
35 participation in state and either regional or national trauma organizations.
- 36 (3) The trauma medical director shall have the authority to correct deficiencies in
37 trauma care and exclude from taking trauma call all trauma team members who
38 do not meet required criteria. Through the performance improvement program

- 1 and hospital policy, the trauma medical director shall have the responsibility and
2 authority to determine each general surgeon's ability to participate on the trauma
3 panel based on an annual review.
- 4 (4) The trauma medical director shall accrue an average of 16 hours verifiable,
5 external trauma-related CME annually or 48 hours in the three years prior to the
6 designation site review, including no less than one national meeting per three
7 years.
- 8 D. Trauma Resuscitation Team
- 9 (1) The facility shall define criteria for trauma resuscitation team activation.
- 10 (2) The criteria for a graded activation shall be clearly defined and continuously
11 evaluated by the performance improvement program.
- 12 E. Trauma Service
- 13 (1) A trauma service admission is a patient who is admitted to or evaluated by an
14 identifiable surgical service staffed by credentialed trauma providers.
- 15 (2) An adult trauma facility shall demonstrate an annual volume of at least 400
16 trauma patients with an Injury Severity Score (ISS) of 16 or greater.
- 17 (3) The facility shall demonstrate or provide documentation that the trauma service
18 has sufficient infrastructure and support to ensure the adequate provision of care.
- 19 F. Trauma Program Manager
- 20 The trauma program manager shall, at a minimum, be a registered nurse and
21 demonstrate the following qualifications:
- 22 (1) Administrative ability,
- 23 (2) Evidence of educational preparation,
- 24 (3) Documented clinical experience, and
- 25 (4) Accrue an average of 16 hours of verifiable, external trauma-related continuing
26 education per year or 48 hours in the three years prior to the designation site
27 review including no less than one national trauma meeting per three years.
- 28 5. Clinical Requirements for General Surgery
- 29 A. Role/Availability
- 30 (1) The on-call attending trauma surgeon shall be in the emergency department on
31 patient arrival, as set forth below, for the highest level of activation, with
32 adequate notification from the field. The maximum response time is 15 minutes,
33 tracked from patient arrival, 80 percent of the time. The Multidisciplinary Trauma
34 Committee shall monitor compliance of the attending surgeon's arrival times.
- 35 (2) A resident in postgraduate year four or five may begin resuscitation while
36 awaiting arrival of the attending surgeon based on facility-defined criteria.

1 B. Equipment/Resources
2 The facility shall provide all of the necessary resources, including instruments, equipment
3 and personnel, for current surgical trauma care.

4 C. Qualifications/Board Certification

5 (1) Except as provided below in subparagraph 2, all general surgeons on the trauma
6 panel shall be fully credentialed in critical care and board certified in surgery by
7 the American Board of Surgery (ABS), the Bureau of Osteopathic Specialists and
8 Boards of Certification, or the Royal College of Physicians and Surgeons of
9 Canada; or shall be board eligible, working toward certification and less than five
10 years out of residency.

11 (2) A foreign-trained, non-ABS boarded surgeon shall have the foreign equivalent of
12 ABS certification in general surgery, clinical expertise in trauma care, an
13 unrestricted Colorado license, and unrestricted credentials in surgery and critical
14 care at the facility.

15 (3) The performance of all surgeons on the trauma panel shall be reviewed annually
16 by the trauma medical director.

17 D. Clinical Commitment/Involvement

18 (1) All general surgeons on the trauma panel shall have general surgical privileges.

19 (2) The general surgeon on-call shall be dedicated to one trauma facility when taking
20 trauma call.

21 (3) A published general surgery back-up call schedule shall be available. The back-
22 up surgeon shall be present within 30 minutes of being requested to respond.

23 (4) An attending surgeon shall be present at all trauma operations. The surgeon's
24 presence shall be documented.

25 E. Education/Continuing Education

26 (1) All general surgeons on the trauma panel shall have successfully completed the
27 American College of Surgeons ATLS course at least once.

28 (2) All general surgeons who take trauma call shall accrue an average of 16 hours
29 annually of verifiable, external trauma-related CME or demonstrate participation
30 in an internal educational process conducted by the trauma program based on
31 the peer review/performance improvement program and the principles of
32 practice-based learning.

33 (3) All general surgeons on the trauma panel shall be reviewed annually by the
34 trauma medical director or designated representative to assure compliance with
35 the facility's CME policy.

36 F. Participation in Statewide Trauma System

37 Each Level I trauma facility shall provide a qualified surgeon as a state reviewer a
38 minimum of one day per year if requested by the Department.

1 6. Requirements for Emergency Medicine and the Emergency Department

2 A. Role/Availability

3 (1) The facility shall have a designated emergency department physician director
4 supported by additional physicians to ensure immediate care for injured patients.

5 (2) A physician shall be present in the emergency department at all times.

6 (3) In facilities with emergency medicine residents, an in-house attending emergency
7 physician shall provide supervision of the residents 24 hours per day.

8 (4) The facility shall designate an emergency physician to serve as the emergency
9 medicine liaison to the trauma service.

10 B. Equipment/Resources

11 The trauma facility shall provide all of the necessary resources, including instruments,
12 equipment and personnel, for current emergency trauma care.

13 C. Qualifications/Board Certification

14 (1) Except as provided below in subparagraph 2, all emergency physicians on the
15 trauma panel shall be board certified in emergency medicine by the American
16 Board of Medical Specialties (ABS), the Bureau of Osteopathic Specialists and
17 Boards of Certification, or the Royal College of Physicians and Surgeons of
18 Canada; or shall be board eligible, working on certification and less than five
19 years out of residency.

20 (2) A foreign-trained, non-ABS boarded emergency physician shall have the foreign
21 equivalent of ABS certification in emergency medicine, clinical expertise in
22 trauma care, an unrestricted Colorado license and unrestricted credentials at the
23 facility.

24 (3) The performance of all emergency physicians on the trauma panel shall be
25 reviewed annually by the emergency medicine liaison or designated
26 representative.

27 D. Clinical Commitment/Involvement

28 (1) The roles and responsibilities of the emergency physician shall be defined,
29 agreed on and approved by the trauma medical director.

30 (2) Emergency physicians on the call panel shall be regularly involved in the care of
31 the injured patient.

32 E. Education/Continuing Education

33 (1) All emergency physicians on the trauma panel shall have successfully completed
34 the American College of Surgeons ATLS course at least once.

35 (2) The trauma service emergency medicine liaison shall accrue an average of 16
36 hours annually of verifiable, external trauma-related CME or 48 hours in the three
37 years before the designation site review.

1 (3) All other emergency physicians on the trauma panel shall be reviewed annually
2 by the emergency medicine liaison or designated representative to assure
3 compliance with the facility's CME policy.

4 F. Nursing Services

5 (1) A qualified nurse shall be available 24 hours per day to provide care for patients
6 during the emergency department phase of care. Nursing personnel with special
7 capability in trauma care shall provide continual monitoring of the trauma patient
8 from hospital arrival to disposition in Intensive Care Unit (ICU), Operating Room
9 (OR), or Patient Care Unit (PCU).

10 (2) The nurse/patient ratio shall be appropriate for the acuity of the trauma patients
11 in the emergency department.

12 7. Clinical Requirements for Neurosurgery

13 A. Role/Availability

14 (1) The facility shall designate a neurosurgeon to serve as the neurological liaison to
15 the trauma service.

16 (2) The facility shall provide a neurotrauma on-call schedule, dedicated only to that
17 facility, available 24 hours per day and either a posted second call or a
18 contingency plan that includes transfer agreements with another designated
19 Level I facility.

20 (3) Neurotrauma care shall be promptly available as defined by the facility. For less
21 severe head injuries or injuries of the spine, neurotrauma care shall be available
22 when necessary. When requested, an attending neurosurgeon shall be promptly
23 available as defined by the facility to the trauma service. Compliance with the
24 facility-defined availability criteria shall be monitored by the Multidisciplinary
25 Trauma Committee.

26 B. Equipment/Resources

27 The facility shall provide all of the necessary resources, including instruments, equipment
28 and personnel, for current neurotrauma care.

29 C. Qualifications

30 (1) Except as provided below in subparagraph 2, all neurosurgeons who take trauma
31 call shall be board certified in neurosurgery by the American Board of Surgery
32 (ABS), the Bureau of Osteopathic Specialists and Boards of Certification, or the
33 Royal College of Physicians and Surgeons of Canada; or shall be board eligible,
34 working on certification and less than five years out of residency.

35 (2) A foreign-trained, non-ABS boarded neurosurgeon shall have the foreign
36 equivalent of ABS certification in neurosurgery, clinical expertise in trauma care,
37 an unrestricted Colorado license and unrestricted credentials in neurosurgery at
38 the facility.

39 (3) The performance of all neurosurgeons on the trauma panel shall be reviewed
40 annually by the liaison or designated representative.

- 1 D. Clinical Commitment/Involvement
 - 2 (1) Neurosurgeons shall be credentialed by the hospital with general neurosurgical
 - 3 privileges.
 - 4 (2) Qualified neurosurgeons shall be regularly involved in the care of the head and
 - 5 spinal cord injured patients.
- 6 E. Education/Continuing Education
 - 7 (1) The trauma service neurosurgery liaison shall accrue an average of 16 hours
 - 8 annually of verifiable, external trauma-related CME or 48 hours in the three years
 - 9 before the designation site review.
 - 10 (2) All other neurosurgeons on the trauma panel shall be reviewed annually by the
 - 11 liaison or designated representative to assure compliance with the facility's CME
 - 12 policy.
- 13 8. Clinical Requirements for Orthopedic Surgery
 - 14 A. Role/Availability/Specialists
 - 15 (1) The facility shall designate an orthopedic surgeon to serve as the orthopedic
 - 16 liaison to the trauma program.
 - 17 (2) At least one orthopedic traumatologist with a minimum of six to twelve months of
 - 18 fellowship training (or equivalent) shall be a part of the trauma team.
 - 19 (3) The facility shall provide an orthopedic on-call schedule, dedicated only to that
 - 20 facility, available 24 hours per day and either a posted second call or a
 - 21 contingency plan that includes transfer agreements with another designated
 - 22 Level I facility. Compliance with the facility-defined availability criteria shall be
 - 23 monitored by the Multidisciplinary Trauma Committee.
 - 24 (4) Plastic surgery, hand surgery and treatment of spinal injuries shall be available to
 - 25 the orthopedic patient.
 - 26 (5) A fully credentialed spine surgeon shall be promptly available, as defined by the
 - 27 facility, 24 hours per day.
 - 28 B. Equipment/Resources
 - 29 The facility shall provide all of the necessary resources including instruments, equipment
 - 30 and personnel, for current musculoskeletal trauma care.
 - 31 C. Qualifications
 - 32 (1) Except as provided below in subparagraph 2, all orthopedic surgeons who take
 - 33 trauma call shall be board certified in orthopedic surgery by the American Board
 - 34 of Surgery (ABS), the Bureau of Osteopathic Specialists and Boards of
 - 35 Certification, or the Royal College of Physicians and Surgeons of Canada; or
 - 36 shall be board eligible, working on certification and less than five years out of
 - 37 residency.

- 1 (2) A foreign-trained, non-ABS orthopedic surgeon shall have the foreign equivalent
2 of ABS certification in orthopedic surgery, clinical expertise in trauma care, an
3 unrestricted Colorado license and unrestricted credentials in orthopedic surgery
4 at the facility.

- 5 (3) The performance of all orthopedic surgeons on the trauma panel shall be
6 reviewed annually by the liaison or designated representative.

- 7 D. Clinical Commitment/Involvement

- 8 (1) Orthopedic surgeons shall be credentialed by the hospital with general
9 orthopedic privileges.

- 10 (2) A published orthopedic surgery back-up call schedule shall be available with the
11 back-up surgeon promptly available.

- 12 (3) Orthopedic surgeons on the call panel shall be regularly involved in the care of
13 the trauma patient.

- 14 E. Education/Continuing Education

- 15 (1) The trauma service orthopedic surgical liaison shall accrue an average of 16
16 hours annually of verifiable external trauma-related CME or 48 hours in the three
17 years before the designation site review.

- 18 (2) All other members of the orthopedic team on the trauma panel shall be reviewed
19 annually by the liaison or designated representative to assure compliance with
20 facility CME policy.

- 21 9. Pediatric Trauma Care

- 22 A. Pediatric trauma care shall refer to care delivered to children under age 15.

- 23 B. Level I adult trauma facilities can and will receive pediatric trauma patients. All adult
24 Level I facilities shall:

- 25 (1) Provide evidence of safe pediatric trauma care to include age-specific medical
26 devices and equipment as appropriate for the resuscitation and stabilization of
27 the pediatric patient.

- 28 (2) Assure that the physician and nursing staff providing care to the pediatric patient
29 demonstrates competency in the care of the injured child appropriate to the type
30 of injured child.

- 31 (3) Demonstrate oversight of the pediatric care provided through a pediatric-specific
32 peer review/performance improvement process.

- 33 C. A Level I adult trauma facility that admits children having other than single extremity
34 orthopedic fracture or minor head trauma with a negative computed tomography shall
35 meet the following additional criteria:

- 36 (1) All physicians providing care to pediatric trauma patients shall be credentialed for
37 pediatric trauma care by the hospital's credentialing body.

- 1 (2) The facility shall provide appropriate pediatric medical equipment in the
2 emergency department.
- 3 (3) The facility shall provide a pediatric intensive care area or a transfer protocol and
4 transfer agreements for pediatric patients requiring intensive care.
- 5 (4) The facility shall provide appropriate pediatric resuscitation equipment in all
6 pediatric care areas.
- 7 (5) The facility shall have a pediatric-specific peer review/performance improvement
8 process, which shall include pediatric-specific process filters and outcome
9 measures.
- 10 (6) The facility shall assure that the nursing staff providing care to the pediatric
11 patient has specialized training in the care of the injured child.
- 12 10. Collaborative Clinical Services
- 13 A. Anesthesiology
- 14 (1) Role/Availability
- 15 a. The facility shall designate an anesthesiologist to serve as the
16 anesthesia liaison to the trauma program.
- 17 b. Anesthesiology services shall be promptly available as defined by the
18 facility in-house 24 hours per day for emergency operations and airway
19 problems in the injured patient. Compliance with the facility-defined
20 availability criteria shall be monitored by the Multidisciplinary Trauma
21 Committee.
- 22 c. When anesthesiology residents or certified registered nurse anesthetists
23 are used to fulfill availability requirements, the staff anesthesiologist on
24 call shall be notified and be present in the operating department. The
25 process shall be monitored through the performance improvement
26 process.
- 27 (2) Qualifications
- 28 a. All anesthesiologists who take trauma call shall be board certified or
29 board eligible, working toward certification and less than five years out of
30 residency.
- 31 b. The performance of all anesthesiologists on the trauma panel shall be
32 reviewed annually by the anesthesiology liaison or designated
33 representative.
- 34 (3) Education/Continuing Education
- 35 a. The trauma service anesthesiologist liaison shall accrue an average of
36 16 hours annually of verifiable, external trauma-related CME or 48 hours
37 in the three years prior to the designation site review.

1 b. All other members of the anesthesiology team on the trauma panel shall
2 be reviewed annually by the anesthesia liaison or designated
3 representative to assure compliance with facility CME policy.

4 B. Operating Room

5 (1) General Requirements

- 6 a. A dedicated operating room team shall always be available.
- 7 b. If the primary operating room team is occupied, there shall be a
8 mechanism in place to staff a second operating room.
- 9 c. There shall be a facility-defined access policy for urgent trauma cases of
10 all specialties.

11 (2) Equipment Requirements

- 12 a. The facility shall have rapid infusers, thermal control equipment for
13 patients and fluids, intraoperative radiological capabilities, equipment for
14 fracture fixation, equipment for endoscopic evaluation (bronchoscopy
15 and gastrointestinal endoscopy) and other equipment to provide
16 operative care consistent with current practice.
- 17 b. The facility shall have the necessary equipment to perform a craniotomy.
- 18 c. The facility shall have cardiopulmonary bypass equipment and an
19 operating microscope available 24 hours per day.

20 C. Postanesthesia Care Unit (PACU)

- 21 (1) Qualified nurses shall be available 24 hours per day to provide care for the
22 trauma patient, if needed, in the recovery phase.
- 23 (2) If the availability of PACU nurses is met with an on-call team from outside the
24 hospital, the availability of the PACU nurses and absence of delays shall be
25 monitored by the peer review/performance improvement program.
- 26 (3) The PACU shall provide all of the necessary resources including instruments,
27 equipment and personnel to monitor and resuscitate patients consistent with the
28 facility-defined process of care.
- 29 (4) Recovery of the trauma patient in a critical care (intensive care) unit is also
30 acceptable.
- 31 (5) The peer review/performance improvement program shall review and address
32 issues related to the availability of necessary personnel and equipment to
33 monitor and resuscitate patients in the PACU.

34 D. Radiology

35 (1) Role/Availability

- 1 a. Qualified radiologists shall be promptly available as defined by the facility
2 for the interpretation of imaging studies and shall respond in person
3 when requested.
- 4 b. Personnel qualified in advanced neuro, endovascular and interventional
5 procedures shall be promptly available as defined by the facility 24 hours
6 per day and available in less than 30 minutes when requested by a
7 trauma surgeon.
- 8 c. The facility shall designate a radiologist to serve as the radiology liaison
9 to the trauma program.
- 10 (2) Clinical Commitment/Involvement
- 11 a. Diagnostic information shall be communicated in written form in a timely
12 manner as defined by the facility.
- 13 b. Critical information that is deemed to immediately affect patient care
14 shall be promptly communicated to the trauma team.
- 15 c. The final report shall accurately reflect the chronology and content of
16 communications with the trauma team, including changes between the
17 preliminary and final interpretation.
- 18 (3) Radiology Support Services
- 19 a. The facility shall have policies designed to ensure that trauma patients
20 who may require resuscitation and monitoring are accompanied by
21 appropriately trained providers during transport to and while in the
22 radiology department.
- 23 b. Conventional radiography and computed tomography (CT) shall be
24 promptly available as defined by the facility 24 hours per day and
25 available in less than 30 minutes when requested by a trauma surgeon.
- 26 c. An in-house radiographer and in-house CT technologist shall be
27 promptly available as defined by the facility 24 hours per day and
28 available in less than 30 minutes when requested by a trauma surgeon.
- 29 d. Conventional catheter angiography and sonography shall be promptly
30 available as defined by the facility 24 hours per day and available in less
31 than 30 minutes when requested by a trauma surgeon.
- 32 e. Magnetic resonance imaging capability shall be promptly available as
33 defined by the facility 24 hours per day and available in less than 30
34 minutes when requested by a trauma surgeon.
- 35 f. The peer review/performance improvement program shall review and
36 address any variance from facility-defined response times.
- 37 E. Critical Care
- 38 (1) Organization of the Intensive Care Unit (ICU)

- 1 a. This service shall be led by a qualified surgeon who is board certified in
2 critical care by the American Board of Surgery. The surgical director shall
3 have obtained critical care training during residency or fellowship and
4 shall have expertise in the perioperative and post injury care of injured
5 patients.
- 6 b. This service may be staffed by critical care trained physicians from
7 different specialties.
- 8 c. Physician coverage of critically ill trauma patients shall be promptly
9 available as defined by the facility 24 hours per day. These physicians
10 shall be capable of rapid response to deal with urgent problems as they
11 arise. Availability shall be monitored by the peer review/performance
12 improvement program.
- 13 d. All trauma surgeons shall be fully credentialed by the facility to provide
14 all intensivist services in the ICU. There shall be full hospital privileges
15 for critical care.
- 16 e. A facility-defined team shall provide daily multidisciplinary rounds to
17 patients in the ICU.
- 18 (2) Responsibility for Trauma Patients
- 19 a. The trauma surgeon shall retain oversight of the patient while in the ICU.
- 20 b. The trauma service shall maintain oversight of the patient throughout the
21 course of hospitalization.
- 22 (3) Nursing Services
- 23 a. A qualified nurse shall be available 24 hours per day to provide care for
24 patients during the ICU phase of care.
- 25 b. The nurse/patient ratio shall be appropriate for the acuity of the trauma
26 patients in the ICU.
- 27 c. The facility shall assure that the nursing staff providing care to the
28 pediatric patient has specialized training in the care of the injured child.
- 29 (4) Equipment
- 30 a. The ICU shall have the necessary resources including instruments and
31 equipment to monitor and resuscitate patients consistent with the facility-
32 defined process of care.
- 33 b. Non-conventional ventilatory support shall be available for trauma
34 patients 24 hours per day.
- 35 c. Arterial pressure monitoring, pulmonary artery catheterization, patient
36 rewarming, intracranial pressure monitoring and other equipment to
37 provide critical care consistent with current practice shall also be
38 available.

- 1 F. Other Surgical Specialties
- 2 The facility shall have a full spectrum of surgical specialists on staff including but not
3 limited to the following surgical specialties: cardiac, thoracic, microvascular, peripheral
4 vascular, obstetric, gynecological, otolaryngologic, urologic, ophthalmologic, facial
5 trauma, hand and plastic.
- 6 G. Medical Consultants
- 7 (1) The facility shall have the following medical specialists on staff: cardiology,
8 infectious disease, internal medicine, pulmonary medicine and nephrology and
9 their respective support teams.
- 10 (2) A respiratory therapist shall be promptly available to care for trauma patients.
- 11 (3) Acute hemodialysis shall be promptly available for the trauma patient.
- 12 (4) Services shall be available 24 hours per day for the standard analyses of blood,
13 urine and other body fluids, coagulation studies, blood gases and microbiology,
14 including microsampling when appropriate.
- 15 (5) The blood bank shall be capable of blood typing and cross-matching and shall
16 have an adequate supply of red blood cells, fresh frozen plasma, platelets,
17 cryoprecipitate and appropriate coagulation factors to meet the needs of injured
18 patients.
- 19 11. Rehabilitation Requirements
- 20 A. Rehabilitation services shall be available to the trauma patient:
- 21 (1) Within the hospital's physical facilities; or
- 22 (2) At a freestanding rehabilitation hospital. In this circumstance, the trauma facility
23 shall have appropriate transfer agreements.
- 24 B. The following services shall be available during the trauma patient's ICU and other acute
25 phases of care:
- 26 (1) Physical, occupational and speech therapy, and
- 27 (2) Social services.
- 28 12. Trauma Registry
- 29 A. Trauma registry data shall be collected and analyzed by every trauma facility. It shall
30 contain detailed, reliable and readily accessible information that is necessary to operate a
31 trauma facility.
- 32 B. Trauma data shall be submitted to the National Trauma Data Bank on an annual basis.
- 33 C. The facility shall demonstrate that the trauma registry is used to support the performance
34 improvement program.

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1 D. Trauma data shall be submitted to the Colorado Trauma Registry within 60 days of the
2 end of the month during which the patient was discharged.

3 E. The trauma program shall have in place appropriate measures to assure that trauma data
4 remain confidential.

5 F. The facility shall monitor data validity.

6 13. Outreach and Education

7 A. Public Outreach and Education

8 The facility shall engage in public education that includes prevention activities, referral
9 and access to trauma facility resources.

10 B. Professional Outreach and Education

11 The facility shall engage in professional outreach and education that includes, at a
12 minimum:

13 (1) Providing or participating in one ATLS course annually,

14 (2) Providing a continuous rotation in trauma surgery for senior residents that is part
15 of a program accredited by the Accreditation Council for Graduate Medical
16 Education in either general surgery, orthopedic surgery, neurosurgery, or family
17 medicine; or support of a critical care fellowship or an acute care surgery
18 fellowship consistent with the educational requirements of the American
19 Association for the Surgery of Trauma, and

20 (3) Providing a mechanism to offer trauma-related education to nurses involved in
21 trauma care.

22 14. Prevention

23 A. The facility shall participate in injury prevention. The facility shall provide documentation
24 of the presence of prevention activities that center on priorities based on local data.

25 B. The facility shall demonstrate evidence of a job description and salary support for an
26 injury prevention coordinator who is a separate person from but collaborates with the
27 trauma program manager.

28 C. The trauma service shall develop an injury prevention program that, at a minimum,
29 incorporates the following:

30 (1) Selecting a target injury population,

31 (2) Gathering and analyzing data,

32 (3) Developing evidenced based intervention strategies based on local data and best
33 practices,

34 (4) Formulating a plan,

35 (5) Implementing the program, and

- 1 (6) Evaluating and revising the program as necessary.
- 2 D. The facility shall demonstrate collaboration with or participation in national, regional or
- 3 state injury prevention programs.
- 4 E. The facility shall have a mechanism to identify patients who may have an alcohol
- 5 addiction. The facility shall also have the capability to provide an intervention for patients
- 6 identified as potentially having an alcohol addiction.
- 7 F. The facility shall collaborate and mentor lower level trauma centers regarding injury
- 8 prevention.

9 15. Research and Scholarship

10 ~~The following criteria shall apply through December 31, 2009:~~

- 11 ~~A. The facility shall have an organized trauma research program with a designated director.~~
- 12 ~~B. There shall be regular meetings of the research group.~~
- 13 ~~C. The productivity of the program shall be demonstrated by the following evidence:~~
 - 14 ~~(1) Proposals reviewed by the Institutional Review Board,~~
 - 15 ~~(2) Presentation at local/regional/national meetings,~~
 - 16 ~~(3) Publications in peer-reviewed journals, and~~
 - 17 ~~(4) Peer-reviewed extramural funding for research activities.~~

18 The following criteria shall apply effective January 1, 2010:

- 19 A. The facility shall meet one of the following options:
 - 20 (1) Twenty peer-reviewed articles published in journals included in *Index Medicus* in
 - 21 a three-year period. These articles shall result from work related to the trauma
 - 22 facility.
 - 23 a. Of the 20 articles, there shall be at least one authored or coauthored by
 - 24 members of the general surgery trauma team, and
 - 25 b. There shall be at least one each from three of the following seven
 - 26 disciplines: neurosurgery, emergency medicine, orthopedics, radiology,
 - 27 anesthesia, nursing, or rehabilitation; **or**
 - 28 (2) Ten peer-reviewed articles published in journals included in *Index Medicus* in a
 - 29 three-year period. These articles shall result from work related to the trauma
 - 30 facility.
 - 31 a. Of the articles, there shall be at least one authored or coauthored by
 - 32 members of the general surgery team, and

- 1 b. There shall be at least one each from three of the following seven
2 disciplines: neurosurgery, emergency medicine, orthopedics, radiology,
3 anesthesia, nursing, or rehabilitation; and
- 4 c. Four of the following scholarly activities shall be demonstrated:
- 5 i. Leadership in major trauma organizations.
- 6 ii. Peer-reviewed funding for trauma research.
- 7 iii. Evidence of dissemination of knowledge to include review
8 articles, book chapters, technical documents, Web-based
9 publications, editorial comments, training manuals and trauma-
10 related course materials.
- 11 iv. Display of scholarly application of knowledge as evidenced by
12 case reports or reports of clinical series in journals included in
13 MEDLINE.
- 14 v. Participation as a visiting professor or invited lecturer at national
15 or regional trauma conferences.
- 16 vi. Support of resident participation in facility-focused scholarly
17 activity, including laboratory experiences, clinical trials, or
18 resident trauma paper competitions at the state, regional or
19 national level.
- 20 vii. Mentorship of residents and fellows, as evidenced by the
21 development of a trauma fellowship program or successful
22 matriculation of graduating residents into trauma fellowship
23 programs.
- 24 B. The facility shall demonstrate support for the trauma research program by providing such
25 items as basic laboratory space, sophisticated research equipment, advanced
26 information systems, biostatistical support, salary support for basic and social scientists
27 or seed grants for less experienced faculty.
- 28 16. Organ Procurement Activities
- 29 A. The facility shall have an established relationship with a recognized organ procurement
30 organization (OPO).
- 31 B. The facility shall have a written policy for triggering notification of the regional OPO.
- 32 C. The facility shall have written protocols defining clinical criteria and confirmatory tests for
33 the diagnosis of brain death.
- 34 17. Disaster Planning and Management
- 35 A. The facility shall meet the Emergency-Management-related requirements of the Joint
36 Commission. ~~on Accreditation of Healthcare Organizations (JCAHO),~~
- 37 (1) These rules incorporate by reference the *Comprehensive Accreditation Manual*
38 *for Hospitals: The Official Handbook*, effective ~~January 2008~~ DECEMBER 2010.

1 (2) Such incorporation does not include later amendments to or editions of the
 2 referenced material. The Health Facilities and Emergency Medical Services
 3 Division of the Department maintains copies of the complete text of the
 4 incorporated materials for public inspection during regular business hours, and
 5 shall provide certified copies of any non-copyrighted material to the public at cost
 6 upon request. Information regarding how the incorporated materials may be
 7 obtained or examined is available from the Division by contacting:

8 EMTS Section Chief
 9 Health Facilities and EMS Division
 10 Colorado Department of Public Health and Environment
 11 4300 Cherry Creek Drive South
 12 Denver, CO 80246-1530

13 These materials have been submitted to the state publications depository and
 14 distribution center and are available for interlibrary loan. The incorporated
 15 material may be examined at any state publications depository library.

16 THESE MATERIALS ARE AVAILABLE FOR PURCHASE FROM JOINT COMMISSION
 17 RESOURCES AT: WWW.JCRINC.COM.

- 18 B. A surgeon from the trauma panel shall participate on the hospital's disaster committee.
- 19 C. The facility shall have a disaster preparedness plan in its policy and procedure manual or
 20 equivalent.
- 21 D. Hospital drills that test the facility's preparedness plan shall be conducted no less than
 22 every six months.
- 23 E. The facility disaster preparedness plan shall be integrated into local, regional and state
 24 disaster preparedness plans.

25 18. RETAC Integration

26 The facility shall demonstrate integration and cooperation with its Regional Emergency Medical
 27 and Trauma Advisory Council (RETAC). Evidence of such integration may include but is not
 28 limited to: attendance at periodic RETAC meetings, participation in RETAC injury prevention
 29 activities, participation in RETAC data and or quality improvement projects, etc.

30 **304 Trauma Facility Designation Criteria - Level II Facilities**

31 1. Prehospital Trauma Care Integration

- 32 A. The facility shall participate in the development and improvement of prehospital care
 33 protocols and patient safety programs.
- 34 B. The trauma medical director shall be involved in the development of the trauma facility's
 35 divert protocol as it affects the trauma service.

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- 1 C. A trauma surgeon shall be involved in any decision regarding divert as it affects the care
2 of the trauma patient.
- 3 D. A liaison from the emergency department shall participate in prehospital peer
4 review/performance improvement.
- 5 2. Interfacility Consultation and Transfer Requirements
- 6 A. Provisions for direct physician-to-physician contact shall be included in the process of
7 transferring a patient between facilities.
- 8 B. A decision to transfer a patient shall be based solely on the clinical needs of the patient
9 and not on the requirements of the patient's specific provider network or the patient's
10 ability to pay.
- 11 C. If the facility does not have a burn service, a reimplantation service, a pediatric trauma
12 service or an acute rehabilitation service, the facility shall have written transfer guidelines
13 for patients in these categories.
- 14 3. Performance Improvement Process
- 15 A. General Provisions
- 16 (1) The facility shall demonstrate a clearly defined trauma performance improvement
17 program that shall be coordinated with the hospital-wide program.
- 18 (2) The facility shall be able to demonstrate that the trauma patient population can
19 be identified for separate review regardless of the institutional performance
20 improvement processes.
- 21 (3) Performance improvement shall be supported by a reliable method of data
22 collection that consistently obtains valid and objective information necessary to
23 identify opportunities for improvement. The process of analysis shall include
24 multidisciplinary review and shall occur at regular intervals to meet the needs of
25 the program. The results of analysis shall define corrective strategies and shall
26 be documented.
- 27 (4) The facility shall demonstrate that the trauma registry is used to support the
28 performance improvement program.
- 29 (5) The performance improvement program shall have defined audit filters based
30 upon a regular review of registry and/or clinical data.
- 31 (6) There shall be appropriate objectively defined standards to determine the quality
32 of care.
- 33 (7) If more than 10 percent of injured patients with an Injury Severity Score greater
34 than or equal to nine (excluding isolated hip fractures) are admitted to non-
35 surgical services, the trauma facility shall demonstrate the appropriateness of
36 that practice through the performance improvement program.
- 37 (8) Identified problem trends shall undergo peer review by the Peer
38 Review/Performance Improvement Committee.

- 1 (9) A representative from the emergency department shall participate in prehospital
2 peer review/performance improvement.
- 3 (10) The facility shall review any diversion or double transfer (from another facility and
4 then transferred for additional acute trauma care) of trauma patients.
- 5 (11) If a facility conducts an internal trauma educational process in lieu of external
6 trauma CME, that process shall be, at least in part, based on information from
7 the peer review/performance improvement process and the principles of practice-
8 based learning.
- 9 (12) The facility shall demonstrate that its graded activation criteria are regularly
10 evaluated by the performance improvement program.
- 11 (13) The Level II adult facility that admits only children with single extremity
12 orthopedic fracture or minor head trauma with a negative computed tomography
13 exam shall demonstrate the oversight of pediatric care through a pediatric-
14 specific peer review/performance improvement process.
- 15 (14) The Level II adult facility that admits children having other than single extremity
16 orthopedic fracture or minor head trauma with a negative computed tomography
17 exam shall have a pediatric-specific peer review/performance improvement
18 process, which shall include pediatric-specific process filters and outcome
19 measures.
- 20 (15) Physician availability to the trauma patient in the ICU shall be monitored by the
21 peer review/performance improvement program.
- 22 B. Multidisciplinary Trauma Committee
- 23 (1) The facility shall have a multidisciplinary committee to address trauma program
24 operational issues.
- 25 ~~(2)~~ A multidisciplinary trauma committee shall continuously evaluate the trauma
26 program's processes and outcomes.
- 27 ~~(23)~~ The committee shall include, at a minimum, the trauma medical director or
28 designee and all core surgeons as well as liaisons from orthopedic surgery,
29 neurosurgery, emergency medicine, radiology and anesthesia. Each of these
30 liaisons shall attend at least 50 percent of the meetings.
- 31 ~~(34)~~ The exact format of the committee may be hospital specific, but shall be
32 multidisciplinary and consist of hospital and medical staff members who work to
33 identify and correct trauma program system issues.
- 34 ~~(45)~~ The committee minutes shall reflect the review of operational issues and, when
35 appropriate, the analysis and proposed corrective actions. The process shall
36 identify problems and shall demonstrate problem resolution.
- 37 ~~(56)~~ The committee shall monitor compliance with all required time frames for
38 availability of trauma personnel, including, but not limited to response times for
39 general surgery, orthopedics, neurosurgery, anesthesiology, radiology, and
40 radiology, MRI or CT techs.

- 1 (~~67~~) The availability of anesthesia services and the absence of delays in airway
2 control or operations shall be monitored.
- 3 (~~78~~) Radiologists shall be involved in protocol development and trend analysis that
4 relate to diagnostic imaging.
- 5 (~~89~~) The multidisciplinary committee shall review and address issues related to the
6 availability of necessary personnel and equipment to monitor and resuscitate
7 patients in the PACU.
- 8 C. Peer Review/Performance Improvement Committee
- 9 (1) The facility shall have a Peer Review/Performance Improvement Committee
10 chaired by the trauma medical director or physician designee.
- 11 (2) The committee shall include, at a minimum, the core group of general surgeons
12 and a physician liaison from orthopedic surgery, neurosurgery, emergency
13 medicine, radiology and anesthesia. Each liaison shall attend at least 50 percent
14 of the meetings.
- 15 (3) Each liaison shall be available to the trauma medical director for committee
16 issues that arise in his or her department.
- 17 (4) The Peer Review/Performance Improvement Committee shall document
18 evidence of committee attendance and participation.
- 19 (5) The committee shall review the overall quality of care for the trauma service,
20 selected deaths, complications and sentinel events with the objective of
21 identifying issues and appropriate responses.
- 22 (6) Trauma patient care may be evaluated initially by individual specialties within
23 their usual departmental review structures; however, identified problem trends
24 shall undergo review within the Peer Review/Performance Improvement
25 Committee.
- 26 (7) The facility shall also, in this committee or in another appropriate forum, provide
27 for morbidity and mortality review of trauma cases. All trauma deaths shall be
28 systematically reviewed and categorized as preventable, non-preventable or
29 potentially preventable.
- 30 (8) When a consistent problem or inappropriate variation is identified, corrective
31 actions shall be taken and documented.
- 32 (9) The trauma medical director shall ensure dissemination of committee information
33 to all non-core general surgeons with documentation.
- 34 (10) The Peer Review/Performance Improvement Committee shall review and monitor
35 the organ donation rate.
- 36 (11) The committee shall demonstrate that the program complies with required
37 surgical response times at least 80% of the time.
- 38 (12) The peer review/performance improvement program shall monitor changes in
39 interpretation of diagnostic information.

- 1 4. Facility Organization and the Trauma Program
- 2 A. Facility Governing Body and Medical Staff Commitment
- 3 (1) The facility shall demonstrate the commitment of the facility’s governing body and
- 4 medical staff through a written document. The document shall be reaffirmed
- 5 every three years and be current at the time of the site review.
- 6 (2) The administrative structure of the hospital/trauma facility shall include, at a
- 7 minimum, an administrator, a trauma medical director and a trauma program
- 8 manager.
- 9 B. Trauma Program
- 10 (1) A multidisciplinary trauma committee shall continuously evaluate the trauma
- 11 program’s processes and outcomes.
- 12 (2) The trauma program members or a representative of the program shall
- 13 participate in state and regional trauma system planning, development and
- 14 operation.
- 15 (3) The trauma program shall have authority to address issues that involve multiple
- 16 disciplines. The trauma medical director shall have the authority and
- 17 administrative support to lead the program.
- 18 C. Trauma Medical Director
- 19 (1) The trauma medical director shall be a board-certified surgeon (not board-
- 20 eligible), as those boards are defined under the “Clinical Requirements for
- 21 General Surgery” as described in Section 304.5.C or shall be a Fellow of the
- 22 American College of Surgeons with special interest in trauma care, shall take
- 23 trauma call and shall have successfully completed an ATLS course.
- 24 (2) The trauma medical director shall demonstrate membership and active
- 25 participation in state and either regional or national trauma organizations.
- 26 (3) The trauma medical director shall have the authority to correct deficiencies in
- 27 trauma care and exclude from taking trauma call all trauma team members who
- 28 do not meet required criteria. Through the performance improvement program
- 29 and hospital policy, the trauma medical director shall have the responsibility and
- 30 authority to determine each general surgeon’s ability to participate on the trauma
- 31 panel based on an annual review.
- 32 (4) The trauma medical director shall accrue an average of 16 hours verifiable,
- 33 external trauma-related CME annually or 48 hours in the three years prior to the
- 34 designation site review, including no less than one national meeting per three
- 35 years.
- 36 D. Trauma Resuscitation Team
- 37 (1) The facility shall define criteria for trauma resuscitation team activation.
- 38 (2) The criteria for a graded activation shall be clearly defined and continuously
- 39 evaluated by the performance improvement program.

- 1 E. Trauma Service
- 2 (1) A trauma service admission is a patient who is admitted to or evaluated by an
- 3 identifiable surgical service staffed by credentialed trauma providers.
- 4 (2) The facility shall demonstrate or provide documentation that the trauma service
- 5 has sufficient infrastructure and support to ensure the adequate provision of care.

6 F. Trauma Program Manager

7 The trauma program manager shall, at a minimum, be a registered nurse and
8 demonstrate the following qualifications:

- 9 (1) Administrative ability,
- 10 (2) Evidence of educational preparation,
- 11 (3) Documented clinical experience, and
- 12 (4) Accrue an average of 16 hours of verifiable, external trauma-related continuing
- 13 education per year or 48 hours in the three years prior to the designation site
- 14 review including no less than one national trauma meeting per three years.

15 5. Clinical Requirements for General Surgery

16 A. Role/Availability

- 17 (1) The on-call attending trauma surgeon shall be in the emergency department on
- 18 patient arrival, as set forth below, for the highest level of activation, with
- 19 adequate notification from the field. The maximum response time is 15 minutes,
- 20 tracked from patient arrival, 80 percent of the time. The Multidisciplinary Trauma
- 21 Committee shall monitor compliance of the attending surgeon's arrival times.
- 22 (2) A resident in postgraduate year four or five may begin resuscitation while
- 23 awaiting arrival of the attending surgeon based on facility-defined criteria.

24 B. Equipment/Resources

25 The facility shall provide all of the necessary resources, including instruments, equipment
26 and personnel, for current surgical trauma care.

27 C. Qualifications/Board Certification

- 28 (1) Except as provided below in subparagraph 2, all general surgeons on the trauma
- 29 panel shall be fully credentialed in critical care and board certified in surgery by
- 30 the American Board of Surgery (ABS), the Bureau of Osteopathic Specialists and
- 31 Boards of Certification, or the Royal College of Physicians and Surgeons of
- 32 Canada; or shall be board eligible, working toward certification and less than five
- 33 years out of residency.
- 34 (2) A foreign-trained, non-ABS boarded surgeon shall have the foreign equivalent of
- 35 ABS certification in general surgery, clinical expertise in trauma care, an
- 36 unrestricted Colorado license and unrestricted credentials in surgery and critical
- 37 care at the facility.

1 (3) The performance of all surgeons on the trauma panel shall be reviewed annually
2 by the trauma medical director.

3 D. Clinical Commitment/Involvement

4 (1) All general surgeons on the trauma panel shall have general surgical privileges.

5 (2) The general surgeon on-call shall be dedicated to one trauma facility when taking
6 trauma call.

7 (3) A published general surgery back-up call schedule shall be available. The back-
8 up surgeon shall be present within 30 minutes of being requested to respond.

9 (4) An attending surgeon shall be present at all trauma operations. The surgeon's
10 presence shall be documented.

11 E. Education/Continuing Education

12 (1) All general surgeons on the trauma panel shall have successfully completed the
13 American College of Surgeons ATLS course at least once.

14 (2) All general surgeons who take trauma call shall accrue an average of 16 hours
15 annually of verifiable, external trauma-related CME or demonstrate participation
16 in an internal educational process conducted by the trauma program based on
17 the peer review/performance improvement program and the principles of
18 practice-based learning.

19 (3) All general surgeons on the trauma panel shall be reviewed annually by the
20 trauma medical director or designated representative to assure compliance with
21 the facility's CME policy.

22 F. Participation in Statewide Trauma System

23 Each Level II trauma facility shall provide a qualified surgeon as a state reviewer a
24 minimum of one day per year if requested by the Department.

25 6. Requirements for Emergency Medicine and the Emergency Department

26 A. Role/Availability

27 (1) The facility shall have a designated emergency department physician director
28 supported by additional physicians to ensure immediate care for injured patients.

29 (2) A physician shall be present in the emergency department at all times.

30 (3) In facilities with emergency medicine residents, an in-house attending emergency
31 physician shall provide supervision of the residents 24 hours per day.

32 (4) The facility shall designate an emergency physician to serve as the emergency
33 medicine liaison to the trauma service.

34 B. Equipment/Resources

1 The trauma facility shall provide all of the necessary resources, including instruments,
2 equipment and personnel, for current emergency trauma care.

3 C. Qualifications/Board Certification

4 (1) Except as provided below in subparagraph 2, all emergency physicians hired or
5 contracted on or after the effective date of these rules to participate on the
6 trauma panel shall be board certified in emergency medicine by the American
7 Board of Medical Specialties (ABS), the Bureau of Osteopathic Specialists and
8 Boards of Certification, or the Royal College of Physicians and Surgeons of
9 Canada; or shall be board eligible, working on certification and less than five
10 years out of residency.

11 (2) A foreign-trained, non-ABS boarded emergency physician shall have the foreign
12 equivalent of ABS certification in emergency medicine, clinical expertise in
13 trauma care, an unrestricted Colorado license, and unrestricted credentials at the
14 facility.

15 (3) The performance of all emergency physicians on the trauma panel shall be
16 reviewed annually by the emergency medicine liaison or designated
17 representative.

18 D. Clinical Commitment/Involvement

19 (1) The roles and responsibilities of the emergency physician shall be defined,
20 agreed on and approved by the trauma medical director.

21 (2) Emergency physicians on the call panel shall be regularly involved in the care of
22 the injured patient.

23 E. Education/Continuing Education

24 (1) All emergency physicians on the trauma panel shall have successfully completed
25 the American College of Surgeons ATLS course at least once.

26 (2) Physicians certified by boards other than emergency medicine who treat trauma
27 patients in the emergency department shall remain current in ATLS.

28 (3) The trauma service emergency medicine liaison shall accrue an average of 16
29 hours annually of verifiable, external trauma-related CME or 48 hours in the three
30 years before the designation site review.

31 (4) All other emergency physicians on the trauma panel shall be reviewed annually
32 by the emergency medicine liaison or designated representative to assure
33 compliance with the facility's CME policy.

34 F. Nursing Services

35 (1) A qualified nurse shall be available 24 hours per day to provide care for patients
36 during the emergency department phase of care. Nursing personnel with special
37 capability in trauma care shall provide continual monitoring of the trauma patient
38 from hospital arrival to disposition in Intensive Care Unit (ICU), Operating Room
39 (OR), or Patient Care Unit (PCU).

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1 (2) The nurse/patient ratio shall be appropriate for the acuity of the trauma patients
2 in the emergency department.

3 7. Clinical Requirements for Neurosurgery

4 A. Role/Availability

5 (1) The facility shall designate a neurosurgeon to serve as the neurological liaison to
6 the trauma service.

7 (2) The facility shall define criteria for neurosurgical (attending and resident)
8 activation.

9 (3) If neurosurgeons take call at more than one facility (either trauma or non-trauma)
10 at a time, written primary and back-up call schedules are required, unless the
11 combined volume of trauma-related emergency neurosurgical operative
12 procedures in those facilities is less than an average of 25 per year over the last
13 three calendar years for which data are available.

14 (4) When requested, an attending neurosurgeon shall be promptly available as
15 defined by the facility to the trauma service. Compliance with the facility-defined
16 availability criteria shall be monitored by the Multidisciplinary Trauma Committee.

17 B. Equipment/Resources

18 The facility shall provide all of the necessary resources, including instruments, equipment
19 and personnel, for current neurotrauma care.

20 C. Qualifications

21 (1) Except as provided below in subparagraph 2, all neurosurgeons who take trauma
22 call shall be board certified in neurosurgery by the American Board of Surgery
23 (ABS), the Bureau of Osteopathic Specialists and Boards of Certification, or the
24 Royal College of Physicians and Surgeons of Canada; or shall be board eligible,
25 working on certification and less than five years out of residency.

26 (2) A foreign-trained, non-ABS boarded neurosurgeon shall have the foreign
27 equivalent of ABS certification in neurosurgery, clinical expertise in trauma care,
28 an unrestricted Colorado license and unrestricted credentials in neurosurgery at
29 the facility.

30 (3) The performance of all neurosurgeons on the trauma panel shall be reviewed
31 annually by the liaison or designated representative.

32 D. Clinical Commitment/Involvement

33 (1) Neurosurgeons shall be credentialed by the hospital with general neurosurgical
34 privileges.

35 (2) Qualified neurosurgeons shall be regularly involved in the care of the head and
36 spinal cord injured patients.

37 E. Education/Continuing Education

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1 (1) The trauma service neurosurgery liaison shall accrue an average of 16 hours
2 annually of verifiable, external trauma-related CME or 48 hours in the three years
3 before the designation site review.

4 (2) All other neurosurgeons on the trauma panel shall be reviewed annually by the
5 liaison or designated representative to assure compliance with the facility's CME
6 policy.

7 8. Clinical Requirements for Orthopedic Surgery

8 A. Role/Availability/Specialists

9 (1) The facility shall designate an orthopedic surgeon to serve as the orthopedic
10 liaison to the trauma program.

11 (2) The facility shall provide an orthopedic on-call schedule dedicated only to that
12 facility, available 24 hours per day and either a posted second call or a
13 contingency plan that includes transfer agreements with another designated
14 Level I or II facility. Compliance with the facility-defined availability criteria shall
15 be monitored by the Multidisciplinary Trauma Committee.

16 (3) Plastic surgery, hand surgery and treatment of spinal injuries shall be available to
17 the orthopedic patient.

18 (4) A fully credentialed spine surgeon shall be promptly available, as defined by the
19 facility, 24 hours per day.

20 B. Equipment/Resources

21 The facility shall provide all of the necessary resources including instruments, equipment
22 and personnel, for current musculoskeletal trauma care.

23 C. Qualifications

24 (1) Except as provided below in subparagraph 2, all orthopedic surgeons who take
25 trauma call shall be board certified in orthopedic surgery by the American Board
26 of Surgery (ABS), the Bureau of Osteopathic Specialists and Boards of
27 Certification, or the Royal College of Physicians and Surgeons of Canada; or
28 shall be board eligible, working on certification and less than five years out of
29 residency.

30 (2) A foreign-trained, non-ABS orthopedic surgeon shall have the foreign equivalent
31 of ABS certification in orthopedic surgery, clinical expertise in trauma care, an
32 unrestricted Colorado license and unrestricted credentials in orthopedic surgery
33 at the facility.

34 (3) The performance of all orthopedic surgeons on the trauma panel shall be
35 reviewed annually by the liaison or designated representative.

36 D. Clinical Commitment/Involvement

37 (1) Orthopedic surgeons shall be credentialed by the hospital with general
38 orthopedic privileges.

- 1 (2) If orthopedic surgeons take call at more than one facility (either trauma or non-
2 trauma) at a time, written primary and back-up call schedules are required.
- 3 (3) Orthopedic surgeons on the call panel shall be regularly involved in the care of
4 the trauma patient.
- 5 E. Education/Continuing Education
- 6 (1) The trauma service orthopedic surgical liaison shall accrue an average of 16
7 hours annually of verifiable, external trauma-related CME or 48 hours in the three
8 years before the designation site review.
- 9 (2) All other members of the orthopedic team on the trauma panel shall be reviewed
10 annually by the liaison or designated representative to assure compliance with
11 facility CME policy.
- 12 9. Pediatric Trauma Care
- 13 A. Pediatric trauma care shall refer to care delivered to children under age 15.
- 14 B. Level II adult trauma facilities can and will receive pediatric trauma patients. All adult
15 Level II facilities shall:
 - 16 (1) Provide evidence of safe pediatric trauma care to include age-specific medical
17 devices and equipment as appropriate for the resuscitation and stabilization of
18 the pediatric patient.
 - 19 (2) Assure that the physician and nursing staff providing care to the pediatric patient
20 demonstrates competency in the care of the injured child appropriate to the type
21 of injured child.
 - 22 (3) Demonstrate oversight of the pediatric care provided through a pediatric-specific
23 peer review/performance improvement process.
- 24 C. A Level II adult trauma facility that admits children having other than single extremity
25 orthopedic fracture or minor head trauma with a negative computed tomography shall
26 meet the following additional criteria:
 - 27 (1) All physicians providing care to pediatric trauma patients shall be credentialed for
28 pediatric trauma care by the hospital's credentialing body.
 - 29 (2) The facility shall provide appropriate pediatric medical equipment in the
30 emergency department.
 - 31 (3) The facility shall provide a pediatric intensive care area or a transfer protocol and
32 transfer agreements for pediatric patients requiring intensive care.
 - 33 (4) The facility shall provide appropriate pediatric resuscitation equipment in all
34 pediatric care areas.
 - 35 (5) The facility shall have a pediatric-specific peer review/performance improvement
36 process, which shall include pediatric-specific process filters and outcome
37 measures.

1 (6) The facility shall assure that the nursing staff providing care to the pediatric
2 patient has specialized training in the care of the injured child.

3 10. Collaborative Clinical Services

4 A. Anesthesiology

5 (1) Role/Availability

6 a. The facility shall designate an anesthesiologist to serve as the
7 anesthesia liaison to the trauma program.

8 b. Anesthesiology services shall be promptly available as defined by the
9 facility 24 hours per day for emergency operations and airway problems
10 in the injured patient. Compliance with the facility-defined availability
11 criteria shall be monitored by the Multidisciplinary Trauma Committee.

12 c. When anesthesiology residents or certified registered nurse anesthetists
13 are used to fulfill availability requirements, the staff anesthesiologist on
14 call shall be notified and be present in the operating department. The
15 process shall be monitored through the performance improvement
16 process.

17 (2) Qualifications

18 a. All anesthesiologists who take trauma call shall be board certified or
19 board eligible, working toward certification and less than five years out of
20 residency.

21 b. The performance of all anesthesiologists on the trauma panel shall be
22 reviewed annually by the anesthesiology liaison or designated
23 representative.

24 (3) Education/Continuing Education

25 a. The trauma service anesthesiologist liaison shall accrue an average of
26 16 hours annually of verifiable, external trauma-related CME or 48 hours
27 in the three years prior to the designation site review.

28 b. All other members of the anesthesiology team on the trauma panel shall
29 be reviewed annually by the anesthesia liaison or designated
30 representative to assure compliance with facility CME policy.

31 B. Operating Room

32 (1) General Requirements

33 a. A dedicated operating room team shall always be available.

34 b. If the primary operating room team is occupied, there shall be a
35 mechanism in place to staff a second operating room.

36 c. There shall be a facility-defined access policy for urgent trauma cases of
37 all specialties.

- 1 (2) Equipment Requirements
- 2 a. The facility shall have rapid infusers, thermal control equipment for
- 3 patients and fluids, intraoperative radiological capabilities, equipment for
- 4 fracture fixation, equipment for endoscopic evaluation (bronchoscopy
- 5 and gastrointestinal endoscopy) and other equipment to provide
- 6 operative care consistent with current practice.
- 7 b. The facility shall have the necessary equipment to perform a craniotomy.
- 8 C. Postanesthesia Care Unit (PACU)
- 9 (1) Qualified nurses shall be available 24 hours per day to provide care for the
- 10 trauma patient, if needed, in the recovery phase.
- 11 (2) If the availability of PACU nurses is met with an on-call team from outside the
- 12 hospital, the availability of the PACU nurses and absence of delays shall be
- 13 monitored by the peer review/performance improvement program.
- 14 (3) The PACU shall provide all of the necessary resources including instruments,
- 15 equipment and personnel to monitor and resuscitate patients consistent with the
- 16 facility-defined process of care.
- 17 (4) Recovery of the trauma patient in a critical care (intensive care) unit is also
- 18 acceptable.
- 19 (5) The peer review/performance improvement program shall review and address
- 20 issues related to the availability of necessary personnel and equipment to
- 21 monitor and resuscitate patients in the PACU.
- 22 D. Radiology
- 23 (1) Role/Availability
- 24 a. Qualified radiologists shall be promptly available as defined by the facility
- 25 for the interpretation of imaging studies and shall respond in person
- 26 when requested.
- 27 b. Personnel qualified in interventional procedures shall be promptly
- 28 available as defined by the facility 24 hours per day when requested by a
- 29 trauma surgeon.
- 30 c. The facility shall designate a radiologist to serve as the radiology liaison
- 31 to the trauma program.
- 32 (2) Clinical Commitment/Involvement
- 33 a. Diagnostic information shall be communicated in written form in a timely
- 34 manner as defined by the facility.
- 35 b. Critical information that is deemed to immediately affect patient care
- 36 shall be promptly communicated to the trauma team.

- 1 c. The final report shall accurately reflect the chronology and content of
- 2 communications with the trauma team, including changes between the
- 3 preliminary and final interpretation.

- 4 (3) Radiology Support Services

- 5 a. The facility shall have policies designed to ensure that trauma patients
- 6 who may require resuscitation and monitoring are accompanied by
- 7 appropriately trained providers during transport to and while in the
- 8 radiology department.

- 9 b. Conventional radiography and computed tomography (CT) shall be
- 10 promptly available as defined by the facility 24 hours per day and
- 11 available in less than 30 minutes when requested by a trauma surgeon.

- 12 c. An in-house radiographer and in-house CT technologist shall be
- 13 promptly available as defined by the facility 24 hours per day and
- 14 available in less than 30 minutes when requested by a trauma surgeon.

- 15 d. Conventional catheter angiography and sonography shall be promptly
- 16 available as defined by the facility 24 hours per day and available in less
- 17 than 30 minutes when requested by a trauma surgeon.

- 18 e. Magnetic resonance imaging capability shall be promptly available as
- 19 defined by the facility 24 hours per day and available in less than 30
- 20 minutes when requested by a trauma surgeon.

- 21 f. The peer review/performance improvement program shall review and
- 22 address any variance from facility-defined response times.

23 E. Critical Care

- 24 (1) Organization of the Intensive Care Unit (ICU)

- 25 a. This service shall be directed or co-directed by a qualified surgeon with
- 26 expertise in the care of injured patients.

- 27 b. This service may be staffed by critical care trained physicians from
- 28 different specialties.

- 29 c. Physician coverage of critically ill trauma patients shall be promptly
- 30 available as defined by the facility 24 hours per day. These physicians
- 31 shall be capable of rapid response to deal with urgent problems as they
- 32 arise. Availability shall be monitored by the peer review/performance
- 33 improvement program.

- 34 d. All trauma surgeons shall be fully credentialed by the facility to provide
- 35 all intensivist services in the ICU. There shall be full hospital privileges
- 36 for critical care.

37 (2) Responsibility for Trauma Patients

- 38 a. The trauma surgeon shall retain oversight of the patient while in the ICU.

- 1 A. Rehabilitation services shall be available to the trauma patient:
- 2 (1) Within the hospital's physical facilities; or
- 3 (2) At a freestanding rehabilitation hospital. In this circumstance, the trauma facility
- 4 shall have appropriate transfer agreements.
- 5 B. The following services shall be available during the trauma patient's ICU and other acute
- 6 phases of care:
- 7 (1) Physical, occupational and speech therapy, and
- 8 (2) Social services.

9 12. Trauma Registry

- 10 A. Trauma registry data shall be collected and analyzed by every trauma facility. It shall
- 11 contain detailed, reliable and readily accessible information that is necessary to operate a
- 12 trauma facility.
- 13 B. Trauma data shall be submitted to the National Trauma Data Bank on an annual basis.
- 14 C. The facility shall demonstrate that the trauma registry is used to support the performance
- 15 improvement program.
- 16 D. Trauma data shall be submitted to the Colorado Trauma Registry within 60 days of the
- 17 end of the month during which the patient was discharged.
- 18 E. The trauma program shall have in place appropriate measures to assure that trauma data
- 19 remain confidential.
- 20 F. The facility shall monitor data validity.

21 13. Outreach and Education

- 22 A. Public Outreach and Education
- 23 The facility shall engage in public education that includes prevention activities, referral
- 24 and access to trauma facility resources.
- 25 B. Professional Outreach and Education
- 26 The trauma facility shall engage in professional outreach and education activities that
- 27 include, at a minimum, internal and external trauma-related educational opportunities for
- 28 physicians, nurses and allied health professionals.

29 14. Prevention

- 30 A. The facility shall participate in injury prevention. The facility shall provide documentation
- 31 of the presence of prevention activities that center on priorities based on local data.
- 32 B. The facility shall demonstrate evidence of a job description and salary support for an
- 33 injury prevention coordinator who is a separate person from but collaborates with the
- 34 trauma program manager.

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- 1 C. The trauma service shall develop an injury prevention program that, at a minimum,
2 incorporates the following:
- 3 (1) Selecting a target injury population,
4 (2) Gathering and analyzing data,
5 (3) Developing evidenced based intervention strategies based on local data and best
6 practices,
7 (4) Formulating a plan,
8 (5) Implementing the program, and
9 (6) Evaluating and revising the program as necessary.
- 10 D. The facility shall demonstrate collaboration with or participation in national, regional or
11 state injury prevention programs.
- 12 E. The facility shall have a mechanism to identify patients who may have an alcohol
13 addiction. The facility shall also have the capability to provide an intervention for patients
14 identified as potentially having an alcohol addiction.
- 15 F. The facility shall collaborate and mentor lower level trauma centers regarding injury
16 prevention.

17 15. Organ Procurement Activities

- 18 A. The facility shall have an established relationship with a recognized organ procurement
19 organization (OPO).
- 20 B. The facility shall have a written policy for triggering notification of the regional OPO.
- 21 C. The facility shall have written protocols defining clinical criteria and confirmatory tests for
22 the diagnosis of brain death.

23 16. Disaster Planning and Management

- 24 A. The facility shall meet the Emergency-Management-related requirements of the Joint
25 Commission. ~~on Accreditation of Healthcare Organizations (JCAHO),~~ (1) These rules
26 incorporate by reference the 20082011 Comprehensive Accreditation Manual for
27 Hospitals: The Official Handbook, effective January 2008 DECEMBER 2010.
- 28 (2) B. Such incorporation does not include later amendments to or editions of the referenced
29 material. The Health Facilities and Emergency Medical Services Division of the
30 Department maintains copies of the complete text of the incorporated materials for public
31 inspection during regular business hours, and shall provide certified copies of any non-
32 copyrighted material to the public at cost upon request. Information regarding how the
33 incorporated materials may be obtained or examined is available from the Division by
34 contacting:

35 EMTS Section Chief

36 Health Facilities and EMS Division

1 Colorado Department of Public Health and Environment
2 4300 Cherry Creek Drive South
3 Denver, CO 80246-1530

4 These materials have been submitted to the state publications depository and
5 distribution center and are available for interlibrary loan. The incorporated
6 material may be examined at any state publications depository library.

7 THESE MATERIALS ARE AVAILABLE FOR PURCHASE FROM JOINT COMMISSION
8 RESOURCES AT WWW.JCRINC.COM.

9 17. RETAC Integration

10 The facility shall demonstrate integration and cooperation with its Regional Emergency Medical
11 and Trauma Advisory Council (RETAC). Evidence of such integration may include but is not
12 limited to: attendance at periodic RETAC meetings, participation in RETAC injury prevention
13 activities, participation in RETAC data and or quality improvement projects, etc.

14 **305. Trauma Facility Designation Criteria - Level III**

15 Standards for facilities designated as Level III Trauma Centers - The facility must be licensed as a
16 general hospital.

17 1. Administration and Organization Criteria. A Level III Trauma Center shall have:

18 A. A trauma program with:

19 (1) An administrative organizational structure that identifies the institutional support
20 and commitment. The program's location within that structure must be placed so
21 that it may interact with at least equal authority with other departments providing
22 patient care within the facility.

23 (2) Medical staff commitment to support the program demonstrated by a written
24 commitment to provide the specialty care needed to support optimal care of the
25 injured patient and specific delineation of surgical privileges.

26 (3) Policies that identify and establish the scope of trauma care for both adult and
27 pediatric patients, including but not limited to:

28 a. Initial resuscitation and stabilization;

29 b. Admission and inter-facility consultation and transfer criteria;

30 c. Surgical capabilities;

31 d. Critical care capabilities;

32 e. Rehabilitation capabilities if available;

33 f. Neurosurgical capabilities if available;

34 g. Spinal Cord surgical capabilities if available;

- 1 h. Other specialist capabilities if available; and
- 2 i. Written procedure for receipt and transfer of patients by fixed and rotary
3 wing aircraft.
- 4 (4) A Trauma Medical Director who is a board certified general surgeon, or is board
5 qualified working toward board certification. A facility may have another physician
6 as a co-trauma medical director. The Trauma Medical Director:
- 7 a. Is responsible for service leadership, overseeing all aspects of trauma
8 care, with administrative authority for the hospital trauma program
9 including:
- 10 i. Trauma multidisciplinary program,
- 11 ii. Trauma quality improvement program,
- 12 iii. Provision of recommendations for physician appointment to and
13 removal from the trauma service,
- 14 iv. Policy and procedure development and enforcement, and
- 15 v. Peer review.
- 16 b. Participates on a local or statewide basis in trauma educational activities
17 for healthcare providers or the public.
- 18 c. Functions as trauma medical director at only one facility.
- 19 d. Participates in the on-call schedule.
- 20 e. Participates in regional trauma system development.
- 21 (5) A facility defined trauma team, with an identifiable team leader.
- 22 (6) A facility defined trauma team activation protocol that includes who is notified and
23 the response requirements. The protocol shall base activation of the team on the
24 anatomical, physiological, mechanism of injury criteria and co-morbid factors as
25 outlined in the pre-hospital trauma triage algorithms as set forth in 6 CCR 1015-4,
26 ~~Chapter 2~~Chapter 2TWO.
- 27 (7) A facility defined trauma service with the personnel and resources identified as
28 needed to provide care for the injured patient.
- 29 (8) A registered nurse identified as the Trauma Nurse Coordinator with educational
30 preparation and clinical experience in care of the injured patient as defined by the
31 facility. This position is responsible for the organization of services and systems
32 necessary for a multidisciplinary approach to care of the injured patient.
- 33 (9) Multi-disciplinary trauma committee with specialty representation. This committee
34 is involved in the development of a plan of care for the injured patient and is
35 responsible for trauma program performance. Membership will be established by
36 the facility and attendance requirements established by the committee.

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- 1 (10) A quality improvement program as defined in ~~section VIII~~ 308 of this chapter.
- 2 (11) Divert protocols, to include:
- 3 a. Coordination with the RETAC
- 4 b. Notification of pre-hospital providers
- 5 c. Reason for divert
- 6 d. A method for monitoring times and reasons for going on divert.
- 7 (12) A trauma registry as required in Chapter 1 of these rules, and trauma data entry
- 8 support,
- 9 (13) Participation in the RETAC and statewide quality improvement programs as
- 10 required in rule.
- 11 B. Hospital departments/divisions/sections
- 12 (1) Surgery
- 13 (2) Emergency Medicine
- 14 (3) Anesthesia
- 15 2. A Level III trauma center shall meet all of the following clinical capabilities criteria:
- 16 A. Emergency Medicine in house 24 hours a day.
- 17 B. The following service available in person 24 hours a day within 20 minutes of trauma
- 18 team activation:
- 19 (1) General surgery. Coverage shall be provided by.
- 20 a. The attending board certified surgeon or board qualified surgeon working
- 21 toward certification, who may only take call at one facility at any one
- 22 time, and
- 23 b. The surgeon will meet those patients meeting facility defined Trauma
- 24 Team Activation criteria upon arrival, by ambulance, in the emergency
- 25 department. For those patients meeting Trauma Team Activation criteria
- 26 where adequate prior notification is not possible, the surgical response
- 27 shall be 20 minutes from notification.
- 28 C. The following services on - call and available within 30 minutes of request by the trauma
- 29 team leader:
- 30 (1) Anesthesia. Coverage shall be by:
- 31 a. A board certified anesthesiologist, or board-qualified anesthesiologist
- 32 working toward certification, or
- 33 b. A Certified Registered Nurse Anesthetist (CRNA).

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- 1 (2) ~~On and after July 1, 2004,~~ orthopedic surgery. Coverage shall be by:
- 2 a. A board certified or board qualified orthopedic surgeon working toward
3 certification.
- 4 D. The following non-surgical specialists on call, credentialed and available in person or by
5 tele-radiology for patient service upon request of the trauma team leader:
- 6 (1) A radiologist, and
- 7 (2) Internal medicine.
- 8 3. A Level III trauma center shall have all of the following facilities, resources, and capabilities:
- 9 A. An Emergency Department with:
- 10 (1) Personnel, to include:
- 11 a. A designated physician director who is board certified in emergency
12 medicine, family practice, internal medicine, or surgery, and whose
13 primary practice is in emergency medicine.
- 14 b. Physician(s) designated as member(s) of the trauma team:
- 15 i. Physically present in the Emergency Department 24 hours/day.
16 And who are board certified in emergency medicine, family
17 practice, internal medicine or surgery and
- 18 ii. Who are Advanced Trauma Life Support verified unless board
19 certified in emergency medicine and
- 20 iii. Whose primary practice is in emergency medicine.
- 21 iv. All physicians hired or contracted for services after 2005 must be
22 board certified in emergency medicine or board qualified working
23 toward certification.
- 24 c. Registered Nurses in-house 24 hours a day who:
- 25 i. Provide continuous monitoring of the trauma patient until release
26 from the Emergency Department, and
- 27 ii. At least one Registered Nurse in the Emergency Department 24
28 hours/day who maintains current verification in Trauma Nurse
29 Core Course or equivalent
- 30 (2) Equipment for the resuscitation of patients of all ages shall include but not be
31 limited to:
- 32 a. Airway control and ventilation equipment including laryngoscopes and
33 endotracheal tubes of all sizes, bag mask resuscitators, and oxygen
- 34 b. Pulse oximetry

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- 1 c. End - tidal CO₂ determination
- 2 d. Suction devices
- 3 e. Electrocardiograph-oscilloscope-defibrillator
- 4 f. Internal paddles - adult and pediatric
- 5 g. Apparatus to establish central venous pressure monitoring
- 6 h. Standard intravenous fluids and administration devices, including large
- 7 bore intravenous catheters
- 8 i. Sterile Surgical sets for:
 - 9 i. Airway control/cricothyrotomy
 - 10 ii. Thoracostomy - needle and tube
 - 11 iii. Thoracotomy
 - 12 iv. Vascular access to include central line insertion and
 - 13 interosseous access
 - 14 v. Peritoneal lavage
 - 15 j. Gastric Decompression
 - 16 k. Drugs necessary for emergency care
 - 17 l. X-ray availability, 24 hours a day
 - 18 m. Two-way communication with emergency transport vehicles
 - 19 n. Spinal immobilization equipment/cervical traction devices
 - 20 o. Arterial catheters
 - 21 p. Thermal control equipment for:
 - 22 a) Patients
 - 23 b) Blood and fluids
 - 24 q. Rapid infuser system
 - 25 r. Medication chart, tape or other system to assure ready access to
 - 26 information on proper dose-per-kilogram for resuscitation drugs and
 - 27 equipment sizes for pediatric patients
- 28 B. An operating room available 24/hours a day with:
 - 29 (1) Facility defined Operating Room team on-call and available within 30 minutes
 - 30 of request by trauma team leader,

- 1 (2) Equipment for all ages shall include, but not be limited to:
 - 2 a. Thermal control equipment for:
 - 3 i. Patients
 - 4 ii. Blood and Fluids
 - 5 b. X-ray capability, including c-arm image intensifier
 - 6 c. Endoscope, bronchoscope
 - 7 d. Equipment for fixation of long bone and pelvic fractures
 - 8 e. Rapid infuser system
 - 9 f. Equipment for the continuous monitoring of temperature, hemodynamics
 - 10 and gas exchange
- 11 C. ~~Postanesthetic recovery room~~ CARE UNIT (surgical intensive care unit is acceptable) with:
 - 12 (1) Registered nurses available within 30 minutes of request, 24 hours a day
 - 13 (2) Equipment for the continuous monitoring of temperature, hemodynamics, and
 - 14 gas exchange
 - 15 (3) Thermal control equipment for:
 - 16 i.A. Patients
 - 17 ii.B. Blood and fluids
- 18 D. Intensive Care Unit for injured patients with:
 - 19 (1) Personnel, to include:
 - 20 i.A. A director, or co-director who is a surgeon with facility privileges to admit
 - 21 patients to the critical care area, and is responsible for setting policies
 - 22 and oversight of the care related to trauma ICU patients;
 - 23 ii.B. A physician, approved by the trauma director who is available within 30
 - 24 minutes of notification to respond to the needs of the trauma ICU patient;
 - 25 and
 - 26 iii.C. Registered nurses.
 - 27 (2) Equipment for the continuous monitoring of temperature, hemodynamics and gas
 - 28 exchange.
- 29 E. Radiological Services, available 24 hours a day, with:
 - 30 (1) A radiology technician available within 30 minutes of notification of Trauma Team
 - 31 Activation;

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- 1 (2) A Computed Tomography technician available within 30 minutes of request;
- 2 (3) Computed tomography (CT); and
- 3 (4) Ultrasound.
- 4 F. Clinical Laboratory Services, to include:
 - 5 (1) Standard analysis of blood, urine and other body fluids;
 - 6 (2) Blood typing and cross matching;
 - 7 (3) Coagulation studies;
 - 8 (4) Blood and blood components available from in-house, or through community
9 services, to meet patient needs and blood storage capability;
 - 10 (5) Blood gases and pH determination;
 - 11 (6) Microbiology;
 - 12 (7) Serum alcohol and toxicology determination; and
 - 13 (8) A clinical laboratory technician in-house.
- 14 G. Respiratory therapy services, in-house.
- 15 H. Neuro-trauma Management
 - 16 (1) Acute Spinal Cord Management with:
 - 17 a. Neurosurgeons or orthopedic surgeons with special qualifications in
18 acute spinal cord management, on-call and available within a facility
19 defined time of request of the trauma team leader, or
 - 20 b. Written transfer guidelines for patients with spinal cord injuries. ~~as~~
21 ~~defined in Section VIX of this chapter,~~
 - 22 (2) Acute Brain Injury Management with a:
 - 23 a. Neurosurgeon on-call and available within 30 minutes of the request of
24 the trauma team leader, or
 - 25 b. Written transfer guidelines for patients with acute brain injuries. ~~as~~
26 ~~defined in Section IX of this chapter.~~
- 27 I. Organized burn care for those patients identified in ssection of this chapter, ~~with~~ AND
28 transfer AND CONSULTATION guidelines with a burn center as defined in Section ~~IX~~ 309 of
29 this chapter.
- 30 J. Rehabilitation services with:
 - 31 (1) A physician who is credentialed by the facility to provide leadership for physical
32 medicine and rehabilitation, and

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- 1 (2) Policies and procedures for the early assessment of the rehabilitation needs of
- 2 the injured patient, and
- 3 (3) Physical therapy, and
- 4 (4) Occupational therapy, and
- 5 (5) Speech therapy, and
- 6 (6) Social Services; or
- 7 (7) Transfer guidelines for access to rehabilitation services.

8 K. Injury Prevention/Public Education, with:

- 9 (1) Outreach activities and program development;
- 10 (2) Information resources for the public; and
- 11 (3) Facility developed or collaboration with existing national, regional and state
- 12 programs.

13 L In-house trauma related continuing education, for:

- 14 (1) Non-physician trauma team members, and
- 15 (2) Nurses in the Emergency Department and Intensive Care Unit with facility
- 16 defined competency testing and orientation programs.

17 M. CME requirements for surgeons, orthopedic surgeons, emergency physicians,

18 anesthesiologists/CRNA's and neurosurgeons if providing trauma care, to include:

- 19 (1) 10 hours of trauma related, facility defined CME annually or 30 hours over the
- 20 three-year period preceding any site review,
- 21 (2) ~~On and after July 1, 2004,~~ Current Advanced Trauma Life Support verification for
- 22 all physicians providing emergency department coverage who are not board
- 23 certified in emergency medicine,
- 24 (3) Documentation of successful completion of an Advanced Trauma Life Support
- 25 course for surgeons and all emergency physicians who are board certified in
- 26 emergency medicine.

27 **306. Trauma Facility Designation Criteria - Level IV**

28 Standards for facilities designated as Level IV Trauma Centers-

29 The facility must be licensed as one of the following: a general hospital; a community clinic and

30 emergency center (CCEC), and be open 24 hours a day, 365 days a year; or a critical access hospital

31 (CAH) and be open 24 hours a day, 365 days a year with physician coverage for trauma patients arriving

32 by ambulance as described in the clinical capabilities criteria.

33 1. Administration and Organization Criteria. A Level IV Trauma Center shall have:

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- 1 A. Commitment by administration and medical staff to support the trauma program
2 demonstrated by written commitment from the facility's board of directors,
3 owner/operator, or administrator to provide the required services.
- 4 B. A written commitment to regional planning and system development activities.
- 5 C. A trauma program with policies that identify and establish the scope of trauma care for
6 both adult and pediatric patients, including but not limited to:
- 7 (1) Initial resuscitation and stabilization;
- 8 (2) Admission criteria;
- 9 (3) Surgical capabilities if available;
- 10 (4) Critical care capabilities if available;
- 11 (5) Rehabilitation capabilities if available; and
- 12 (6) Written procedure for transfer of patients by fixed and rotary wing aircraft.
- 13 D. A physician designated by the facility as the Trauma Medical Director who takes
14 responsibility for the trauma program. Responsibilities include:
- 15 (1) Participation in trauma educational activities for healthcare providers or the
16 public;
- 17 (2) Leadership for the trauma program and oversight of the trauma quality
18 improvement process; and
- 19 (3) Administrative authority for the trauma program, including, recommendations for
20 trauma privileges, policy and procedure enforcement, and peer review.
- 21 E. A facility defined trauma team activation protocol that includes who is notified and the
22 response expectations. The protocol shall base activation of personnel on anatomical,
23 physiological, mechanism of injury criteria and co-morbid factors as outlined in the
24 prehospital trauma triage algorithms as set forth in 6 CCR 1015-4, Chapter 2TWO.
- 25 DF. A defined method of activating trauma response personnel consistent with the scope of
26 trauma care provided by the facility.
- 27 EG. A staff person identified as the Trauma Coordinator with clinical experience in care of the
28 injured patient, who is responsible for coordination of the trauma program functions.
- 29 FH. An identified multidisciplinary committee involved in the development of a plan of care for
30 the injured patient and is responsible for trauma program performance. Membership will
31 be established by the facility and the committee will establish attendance.
- 32 GI. A quality improvement program as defined in ~~section~~ § 308 of this chapter.
- 33 HJ. Divert protocols, to include:
- 34 (1) Coordination with the Regional Emergency Medical and Trauma Advisory
35 Council

- 1 (2) Notification of pre-hospital providers
- 2 (3) Reason for divert
- 3 (4) A method for monitoring times and reasons for going divert.
- 4 ~~K.~~ Interfacility transfer criteria/guidelines as a transferring facility (if applicable). ~~as defined in~~
- 5 ~~Section VIX of this chapter.~~
- 6 ~~JL.~~ Interfacility transfer policies and protocols. ~~as defined in Section VIX of this chapter.~~
- 7 ~~KM.~~ Participation in the state trauma registry as required in Chapter 1.
- 8 ~~LN.~~ Participation in the RETAC and statewide quality improvement programs as required in
- 9 rule.
- 10 ~~MO.~~ If licensed as a Community Clinic with Emergency Care (CCEC):
- 11 (1) A central log on each trauma patient/individual presenting with an emergency
- 12 condition who comes seeking assistance and whether he or she refused
- 13 treatment, was refused treatment, or whether the individual was transferred,
- 14 admitted and treated, died, stabilized and transferred, or discharged.
- 15 (2) A policy requiring the provision of a medical screening of all individuals with
- 16 trauma related emergencies that come to the clinic and request an examination
- 17 or treatment. The policy shall not delay the provision of a medical screening in
- 18 order to inquire about an individuals' method of payment or insurance status.
- 19 (3) Provide further medical examination and such treatment as may be required to
- 20 stabilize the traumatic injury within the staff and facility's capabilities available at
- 21 the clinic, or to transfer the individual. The transferring clinic must provide the
- 22 medical treatment, within its capacity, which minimizes the risk to the individual,
- 23 send all pertinent medical records available at the time of transfer, effect the
- 24 transfer through qualified persons and transportation equipment, and obtain the
- 25 consent of the receiving trauma center.
- 26 2. A Level IV trauma center shall meet all of the following clinical capabilities criteria:
- 27 A. The physician must be present in the emergency department at the time of arrival of the
- 28 trauma patient meeting facility defined Trauma Team Activation criteria, arriving by
- 29 ambulance. For those patients where adequate prior notification is not possible, the
- 30 emergency physician shall be available within 20 minutes of notification.
- 31 3. A Level IV trauma center shall have all of the following facilities, resources, and capabilities:
- 32 A. An Emergency Department with:
- 33 (1) Physicians who are credentialed by the facility to provide emergency medical
- 34 care and maintain current Advanced Trauma Life Support (ATLS) verification.
- 35 (2) Registered nurses who provide continuous monitoring of the trauma patient until
- 36 release from the ED. At least one registered nurse in house 24 hours a day who
- 37 maintains current Trauma Nurse Core Course verification or equivalent

- 1 (3) Equipment for the resuscitation of patients of all ages shall include but not limited to:
2 to:
- 3 a. Airway control and ventilation equipment including laryngoscopes and
4 endotracheal tubes of all sizes, bag mask resuscitators, and oxygen
- 5 b. Pulse oximetry
- 6 c. End-tidal CO₂ determination
- 7 d. Suction devices
- 8 e. Electrocardiograph-oscilloscope-defibrillator
- 9 f. Standard intravenous fluids and administration devices, including large
10 bore intravenous catheters
- 11 g. Sterile surgical sets for:
- 12 i. Airway control/cricothyrotomy
- 13 ii. Vascular access to include central line insertion and
14 interosseous access
- 15 iii. Thoracostomy - needle and tube
- 16 h. Gastric decompression
- 17 i. Drugs necessary for emergency care
- 18 j. X-ray availability, 24 hours a day
- 19 k. Two-way communication with emergency transport vehicles
- 20 l. Spinal immobilization equipment
- 21 m. Thermal control equipment for patients and fluids
- 22 n. Medication chart, tape or other system to assure ready access to
23 information on proper dose-per-kilogram for resuscitation drugs and
24 equipment sizes for pediatric patients
- 25 B. If an operating room and/or intensive care unit are utilized for the trauma patient, there
26 must be policies that identify and define the scope of care that include the supervision,
27 staffing and equipment requirements that the facility will utilize.
- 28 C. Radiological capabilities available 24 hours a day with a radiology technician or person
29 with limited certification in x-ray available within 30 minutes of notification of trauma team
30 activation.
- 31 D. Clinical laboratory services available 24 hours a day. A spun hematocrit, dip urinalysis
32 and the ability to collect blood samples to be sent with transferred patients must be
33 available.

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- 1 E. Participates in local/regional/statewide Injury Prevention/Public Education.
- 2 F. Continuing education for all physicians providing trauma care, with:
 - 3 (1) Current ATLS, and
 - 4 (2) 10 hours of trauma related facility defined CME annually or 30 hours over the 3
 - 5 year period preceding any site review.
- 6 G. Facility defined, trauma related continuing medical education requirements for nurses.

7 **307. Trauma Facility Designation Criteria - Level V**

8 Standards for facilities designated as Level V Trauma Centers - The facility must be licensed as a general
9 hospital, a community clinic and emergency center (CCEC) or a critical access hospital (CAH).

- 10 1. Administration and Organization Criteria. A Level V Trauma Center shall have:
 - 11 A. Commitment by administration and medical staff to support the trauma program as
12 demonstrated by written commitment from the facility's Board of Directors,
13 owner/operators, or administrator to provide the required services.
 - 14 B. A written commitment to regional planning and system development activities.
 - 15 C. A trauma program with policies that identify and establish the scope of trauma care for
16 both adult and pediatric patients, including but not limited to:
 - 17 (1) Initial resuscitation and stabilization;
 - 18 (2) Admission criteria;
 - 19 (3) Hours of operation. If the facility is not open 24 hours a day, the services as
20 defined in the scope of trauma service policy shall include after-hours plan for
21 availability of services; and
 - 22 (4) Critical care capabilities if available;
 - 23 (5) Rehabilitation capabilities if available; and
 - 24 (6) Written procedure for transfer of patients by fixed and rotary aircraft.
 - 25 D. A physician designated by the facility as the Trauma Medical Director who takes
26 responsibility for the trauma program. Responsibilities include:
 - 27 (1) Participation in trauma educational activities for healthcare providers or the
28 public;
 - 29 (2) Leadership for the trauma program and oversight of the trauma quality
30 improvement process; and
 - 31 (3) Administrative authority for the trauma program, including recommendations for
32 trauma privileges, policy and procedure enforcement, and peer review.

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- 1 E. A facility defined trauma team activation protocol that includes who is notified and the
2 response expectations. The protocol shall base activation of personnel on anatomical,
3 physical, mechanism of injury criteria and co-morbid factors as outlined in the prehospital
4 trauma triage algorithms as set forth in 6 CCR 1015-4, Chapter 2TWO.
- 5 F. A defined method of activating trauma response personnel consistent with the scope of
6 trauma care provided by the facility.
- 7 G. A staff person identified as the Trauma Coordinator with clinical experience in care of the
8 injured person, who is responsible for coordination of the trauma program functions.
- 9 H. An identified multidisciplinary committee involved in the development of a plan of care for
10 the injured patient and is responsible for trauma program performance. Membership will
11 be established by the facility and the committee will establish attendance.
- 12 I. A quality improvement program as defined in ~~section VIII~~ 308 of this chapter.
- 13 J. Divert protocols, to include:
- 14 (1) Coordination with the Regional Emergency Medical and Trauma Advisory
15 Councils (RETACs)
- 16 (2) Notification of prehospital providers
- 17 (3) Reason for divert
- 18 (4) A method for monitoring times and reasons for going on divert.
- 19 K. Interfacility transfer criteria/guidelines as a transferring facility (if applicable). ~~as defined in~~
20 ~~Section XIX of this chapter.~~
- 21 L. Interfacility transfer policies and protocols. ~~as defined in section XIX of this chapter.~~
- 22 M. Participation in the state trauma registry as required in Chapter 1.
- 23 N. Participation in the RETAC and statewide quality improvement programs as required in
24 rule.
- 25 O. If licensed as a Community Clinics with Emergency Care (CCEC):
- 26 (1) A central log on each trauma patient/individual presenting with an emergency
27 condition who comes seeking assistance and whether he or she refused
28 treatment, was refused treatment, or whether the individual was transferred,
29 admitted and treated, died, stabilized and transferred, or discharged.
- 30 (2) A policy requiring the provision of a medical screening of all individuals with
31 trauma related emergencies that come to the clinic and request an examination
32 or treatment. The policy shall not delay the provision of a medical screening in
33 order to inquire about an individuals' method of payment or insurance status.
- 34 (3) Provide further medical examination and such treatment as may be required to
35 stabilize the traumatic injury within the staff and facility's capabilities available at
36 the clinic, or to transfer the individual. The transferring clinic must provide the
37 medical treatment, within its' capacity, which minimizes the risk to the individual,

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1 send all pertinent medical records available at the time of transfer, effect the
2 transfer through qualified persons and transportation equipment, and obtain the
3 consent of the receiving trauma center.

4 2. A Level V trauma center shall meet all of the following clinical capabilities criteria:

5 A. The physician must be present in the emergency department at the time of arrival of the
6 trauma patient meeting facility defined Trauma Team Activation criteria, arriving by
7 ambulance. For those patients where adequate prior notification is not possible, the
8 emergency physician shall be available with 20 minutes of notification.

9 3. A Level V trauma center shall have all of the following facilities, resources, and capabilities:

10 A. Emergency Department with:

11 (1) Physicians who are credentialed by the facility to provide emergency medical
12 care and maintain current Advanced Trauma Life Support (ATLS) verification.

13 (2) Registered nurses who provide continuous monitoring of the trauma patient until
14 release from the emergency department. At least one RN in house during hours
15 of operation that maintains current Trauma Nurse Core Course verification or
16 equivalent.

17 (3) Equipment for resuscitation of patients of all ages, including but not limited to:

18 a. Airway control and ventilation equipment including laryngoscopes and
19 endotracheal tubes of all sizes, bag mask resuscitators, and oxygen;

20 b. Pulse oximetry;

21 c. End-tidal CO₂ determination;

22 d. Suction devices;

23 e. Electrocardiograph-oscilloscope-defibrillator;

24 f. Standard intravenous fluids and administration devices; including large
25 bore intravenous catheters;

26 g. Sterile surgical sets for:

27 i. Airway control/cricothyrotomy

28 ii. Vascular access to include central line insertion and I/O access

29 iii. Thorocostomy- needle and tube

30 h. Gastric decompression;

31 i. Drugs necessary for emergency care;

32 j. X-ray availability

33 k. Two way communication with emergency transport vehicles

- 1 I. Spinal immobilization equipment
- 2 m. Thermal control equipment for patients/fluids
- 3 n. Medication chart, tape or other system to assure ready access to
4 information on proper dose-per-kilogram for resuscitation drugs and
5 equipment sizes for pediatric patients
- 6 B. If an operating room and/or intensive care unit are utilized for the trauma patient, there
7 must be policies that identify and define the scope of care that include the supervision,
8 staffing and equipment requirements that the facility will utilize.
- 9 C. Radiological capabilities available during hours of operation with a radiology technician or
10 person with limited certification in x-ray available within 30 minutes of notification of
11 trauma team activation.
- 12 D. Clinical laboratory services available during hours of operation. A spun hematocrit, dip
13 urinalysis and the ability to collect blood samples to be sent with transferred patients
14 must be available.
- 15 E. Participates in local/regional/statewide Injury Prevention/Public Education.
- 16 F. Continuing education for physicians providing trauma care, with:
- 17 (1) Current ATLS, and
- 18 (2) 10 hours of trauma related facility defined CME annually or 30 hours over the 3
19 year period preceding any site review.
- 20 G. Facility defined, trauma related continuing medical education requirements for nurses.
- 21 **308. Trauma Quality Improvement Programs for Designated Trauma Centers Levels III-V**
- 22 1. All designated Level III-V trauma centers shall have an organized, trauma quality improvement
23 program that demonstrates a plan, process and accountability for continuous quality improvement
24 in the delivery of trauma care. The program shall include, but not be limited to:
- 25 A. A plan that shall address the entire spectrum of services necessary to ensure optimal
26 care to the trauma patient, from prehospital to rehabilitative care. This plan may be
27 parallel to, and interactive with, the hospital-wide quality improvement program as
28 defined in C.R.S. § 25-3-109 but may not be replaced by the facility process. In Level IV-
29 V clinics or facilities, this plan may be part of the hospital-wide quality improvement
30 program, but must have specific defined trauma-related indicators and components. This
31 plan shall include identification of:
- 32 (1) The trauma center's organizational structure responsible for the administration of
33 the plan, to include a description of who has the authority to change policies,
34 procedures or protocols related to trauma care;
- 35 (2) The responsibility of the trauma service MEDICAL director, or in Level IV-V centers
36 the physician responsible for coordination of the service in coordination with the
37 trauma nurse coordinator for:
- 38 a. The identification of and responsibility for the oversight of the plan;

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- 1 4. Level III facilities shall maintain a trauma registry as required by
2 regulation in Chapter 1-;
- 3 2II. In Level IV-V clinics or facilities shall fulfill the reporting
4 requirement for the submission of data as required by regulation
5 in Chapter 1;
- 6 3III. In Level IV-V clinics or facilities with non-participation in the
7 Colorado Hospital Association discharge data set, the trauma
8 registry as defined in Chapter 1 of these rules may, at a
9 minimum, be in the form of a hard-copy abstract approved by the
10 department;
- 11 4IV. Maintaining a system (such as a log) for tracking patient
12 disposition, and deaths.

13 **309. Burn Unit Referral Criteria**

14 A burn unit may treat adults or children or both. The attending surgeon at a burn unit shall be consulted
15 for any of the following burn injuries:

- 16 1. Partial thickness burn greater than 10% total body surface area (TBSA).
- 17 2. Burns that involve the face, hands, feet, genitalia, perineum, or major joints.
- 18 3. Third-degree burns in any age group.
- 19 4. Electrical burns, including lightning injury.
- 20 5. Chemical burns.
- 21 6. Inhalation injury.
- 22 7. Burn injury in patients with pre-existing medical disorders that could complicate management,
23 prolong recovery, or affect mortality.
- 24 8. Any patients with burns and concomitant trauma (such as fractures) in which the burn injury
25 poses the greatest risk of morbidity or mortality. In such cases, if the trauma poses the greater
26 immediate risk, the patient may be initially stabilized in a trauma center before being transferred
27 to a burn unit. Physician judgment will be necessary in such situations and should be in concert
28 with the regional medical control plan and triage protocols.
- 29 9. Burned children in hospitals without qualified personnel or equipment for the care of children.
- 30 10. Burn injury in patients who will require special social, emotional, or long-term rehabilitative
31 intervention.

32 **310. Facility Designation Criteria - Regional Pediatric Trauma Centers**

- 33 1. Administration and organization criteria. A Regional Pediatric Trauma Center as defined in
34 ssection 25-3.5-703(4)(f) C.R.S. shall have a trauma program with:
- 35 A. An administrative organizational structure which identifies the institutional support and
36 commitment. The program's location within that structure must be placed so that it may

- 1 interact with at least equal authority with other departments providing patient care within
2 the facility.
- 3 B. Medical staff commitment to support the program demonstrated by a written commitment
4 to provide the specialty care needed to support optimal care of the injured patient and
5 specific delineation of surgical privileges.
- 6 C. A Trauma Medical Director who is a board certified pediatric surgeon, credentialed by the
7 facility for pediatric trauma care.
- 8 D. A facility defined Trauma Team, with an identifiable team leader.
- 9 E. A facility defined Trauma Team activation protocol. The protocol shall base activation of
10 the team on the anatomical, physiological, mechanism of injury, and co-morbid factors as
11 outlined in the pediatric prehospital trauma triage algorithms as set forth in 6 CCR 1015-
12 4, Chapter 2 TWO. ~~of the Statewide Emergency Medical and Trauma Care System Rules,~~
13 ~~6 CCR 1015-4.~~
- 14 F. A facility defined trauma service comprised of the personnel and resources identified as
15 needed to provide care for the injured patient. All multi-system trauma patients shall be
16 admitted to ~~mis~~ THIS service. The Trauma Medical Director shall direct the service and the
17 cadre of residents or other allied health personnel assigned to that service at any given
18 time.
- 19 G. A full time registered nurse identified as the Trauma Program Manager, with educational
20 preparation, verification, and clinical experience in care of the injured as defined by the
21 facility. This position is responsible for the organization of services and systems
22 necessary for a multidisciplinary approach to care of the injured patient
- 23 H. A multi-disciplinary Trauma Committee with specialty representation. This committee is
24 involved in the development of a plan of care for the injured patient and is responsible for
25 trauma program performance.
- 26 I. A multidisciplinary Peer Review Committee as defined by the facility. This committee is
27 responsible for monitoring compliance to the facility defined clinical and system standards
28 of care for trauma patients.
- 29 J. Hospital departments/divisions/sections
- 30 (1) General Pediatric Surgery;
- 31 (2) Neurological Surgery;
- 32 (3) Orthopaedic Surgery;
- 33 (4) Emergency Medicine; and
- 34 (5) Anesthesia.
- 35 K. Support services/ancillary services, with policies and procedures for access to:
- 36 (1) Chemical dependency services;
- 37 (2) Child and adult protection services;

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- 1 (3) Clergy or pastoral care;
- 2 (4) Nutritionist services;
- 3 (5) Occupational therapy services;
- 4 (6) Pediatric therapeutic recreation;
- 5 (7) Pharmacy, with a in-house pharmacist;
- 6 (8) Physical therapy services;
- 7 (9) Psychological services;
- 8 (10) Rehabilitation services;
- 9 (11) Social services; and
- 10 (12) Speech therapy services.

11 2. Clinical capabilities criteria

12 A. The following services in house and available 24 hours a day with:

- 13 (1) Pediatric surgery within five minutes of Trauma Team activation. Coverage shall
14 be provided by:
 - 15 a. an attending board certified pediatric surgeon credentialed by the facility
16 for pediatric trauma care who may only take call at one facility at any one
17 time or have a published backup call schedule; or
 - 18 b. a post graduate year four (PGY4) or above surgical resident may initiate
19 evaluation and treatment upon the patient's arrival until the arrival of the
20 attending surgeon. In this case, the attending surgeon shall be available
21 within 20 minutes of request by the resident,
- 22 (2) Pediatric neurosurgery. Coverage shall be provided by:
 - 23 a. the attending board certified neurosurgeon, who may only take call at
24 one facility at any one time or have a published backup call schedule; or
 - 25 b. a surgeon who has been judged competent by the chief of neurosurgery
26 to initiate measures to stabilize the patient and initiate diagnostic
27 procedures. In this case, the attending neurosurgeon shall be available
28 within 30 minutes of notification or request by the Trauma Team leader,
- 29 (3) Pediatric anesthesiology. Coverage shall be provided by:
 - 30 a. a board certified anesthesiologist in the O.R. at time of arrival of the
31 patient; and
 - 32 b. a chief resident or fellow within 5 minutes of request by the Trauma
33 Team leader,

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- 1 (4) Pediatric emergency medicine. Coverage shall be provided by:
- 2 a. a physician board certified in pediatric emergency medicine; or
- 3 b. a physician in a pediatric emergency medicine fellowship at PGY5 level
- 4 or higher; or
- 5 c. a physician having completed pediatric emergency medicine training
- 6 within the past five years.
- 7 B. The following surgical services on-call and present within 30 minutes of request by the
- 8 Trauma Team leader:
- 9 (1) Cardio/thoracic surgery;
- 10 (2) Ophthalmic surgery;
- 11 (3) Oral/maxillofacial/ENT surgery;
- 12 (4) Orthopaedic surgery with a board certified orthopaedic surgeon, who may only
- 13 take call at one facility at any one time or have a published backup call schedule;
- 14 and
- 15 (5) Urologic surgery.
- 16 C. The following non-surgical and surgical specialties including:
- 17 (1) A pediatric radiologist on call and available for patient service within 30 minutes
- 18 of request by ~~me~~ THE Trauma Team leader,
- 19 (2) The following services on call and available for patient consultation or
- 20 management:
- 21 a. cardiology;
- 22 b. infectious disease;
- 23 c. hand surgery,
- 24 d. microvascular surgery;
- 25 e. plastic surgery;
- 26 f. pulmonary medicine;
- 27 g. nephrology; and
- 28 h. hematology.
- 29 3. Facilities/resources/capabilities criteria
- 30 A. An emergency department with:
- 31 (1) Personnel, to include:

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- 1 a. a designated physician director who is board certified in pediatric
2 emergency medicine;
- 3 b. physician(s) designated as a member of the Trauma Team, physically
4 present in the Emergency Department 24 hours a day, who:
- 5 i. are board certified in pediatric emergency medicine; or
- 6 ii. are in a pediatric emergency medicine fellowship at PGY5 level;
- 7 iii. or have completed pediatric emergency medicine training within
8 the past five years.
- 9 c. registered nursing personnel who provide continuous monitoring of the
10 trauma patient until release from the Emergency Department, who have
11 successfully completed a Trauma Nurse Core Course (TNCC) or
12 equivalent course, and a Pediatric Advanced Life Support (PALS)
13 course,
- 14 (2) Equipment for the resuscitation of patients of all ages shall include but not be
15 limited to:
- 16 a. airway control and ventilation equipment including laryngoscopes and
17 endotracheal tubes of all sizes, bag mask resuscitators, and oxygen;
- 18 b. pulse oximetry;
- 19 c. end-tidal eCO_2 determination;
- 20 d. suction devices;
- 21 e. electrocardiograph-oscilloscope-defibrillator with internal paddles - adult
22 and pediatric;
- 23 f. apparatus to establish central venous pressure monitoring;
- 24 g. standard intravenous fluids and administration devices, including large
25 bore intravenous catheters;
- 26 h. sterile surgical sets for:
- 27 i. airway control/cricothyrotomy;
- 28 ii. thorocostomy needle and tube;
- 29 iii. thoracotomy;
- 30 iv. vascular/intraosseous access;
- 31 v. peritoneal lavage;
- 32 vi. central line insertion; and
- 33 vii. ICP monitoring equipment.

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- 1 i. gastric decompression;
- 2 j. drugs necessary for emergency care;
- 3 k. X-ray availability, 24 hours a day;
- 4 l. two-way communication with emergency transport vehicles;
- 5 m. spinal immobilization equipment;
- 6 n. arterial catheters;
- 7 o. thermal control equipment for:
 - 8 i. patients; and
 - 9 ii. blood and fluids.
- 10 p. rapid infuser system; and
- 11 q. length-based emergency tape (LBET).
- 12 (3) Protocols/procedures for management of the injured child in the emergency
- 13 department.
- 14 B. An operating room available within 30 minutes of request 24 hours a day with:
 - 15 (1) Facility-defined operating room team in-house and available within 10 minutes of
 - 16 request of Trauma Team leader,
 - 17 (2) Equipment for all ages shall include, but not be limited to:
 - 18 a. cardiopulmonary bypass capability;
 - 19 b. operating microscope and microinstruments;
 - 20 c. thermal control equipment for:
 - 21 i. patients; and
 - 22 ii. blood and fluids.
 - 23 d. x-ray capability, including C-arm image intensifier;
 - 24 e. endoscopes;
 - 25 f. craniotomy instruments;
 - 26 g. equipment for fixation of long bone and pelvic fracture; and
 - 27 h. equipment for spinal immobilization and instrumentation.
 - 28 C. ~~Postanesthesia recovery room~~ CARE UNIT (surgical intensive care unit is acceptable) with:

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- 1 (1) Registered nurses available within 30 minutes of request 24 hours a day;
- 2 (2) Equipment for the continuous monitoring of temperature, hemodynamics, gas
3 exchange and intracranial pressure;
- 4 (3) Thermal control equipment for:
 - 5 a. patients; and
 - 6 b. blood and fluids,
- 7 (4) Compartmental pressure monitoring equipment.
- 8 D. Intensive care unit for injured patients with:
 - 9 (1) Personnel, to include:
 - 10 a. a surgical director, who:
 - 11 i. is responsible for setting policies and administration related to
12 pediatric trauma ICU patients; and
 - 13 ii. has obtained critical care training during residency or fellowship
14 and has expertise in the perioperative and post injury care of the
15 injured child.
 - 16 b. a physician, credentialed in pediatric critical care, or a pediatric
17 intensivist, approved by the Trauma MEDICAL Director, who is in the
18 hospital and available within 30 minutes of notification.
 - 19 c. registered nurses with facility-defined trauma education program.
 - 20 (2) Equipment for monitoring and resuscitation, to include: intracranial pressure
21 monitoring, compartment pressure monitoring, and continuous monitoring of
22 temperature, hemodynamics, and gas exchange.
- 23 E. Acute hemodialysis available in house.
- 24 F. Radiological services, available 24 hours a day to the trauma patient, with:
 - 25 (1) The following technicians:
 - 26 a. in-house radiology technician available within 10 minutes of notification;
27 and
 - 28 b. in-house CT technician available within 10 minutes of notification.
 - 29 (2) The following services:
 - 30 a. MRI, on site without vehicular transfer of the patient;
 - 31 b. angiography;
 - 32 c. sonography;

- 1 d. computed tomography (CT); and
- 2 e. interventional radiology.
- 3 (3) Physician and technical support staff for the services identified above shall be in-
- 4 house or available within 30 minutes.
- 5 G. Clinical laboratory services, to include:
- 6 (1) Standard analysis of blood, urine, and other body fluids;
- 7 (2) Blood typing and cross matching;
- 8 (3) Coagulation studies;
- 9 (4) Blood and blood components available from in-house, or through community
- 10 services, to meet patient needs and blood storage capability;
- 11 (5) Blood gases and PPH determination;
- 12 (6) Microbiology;
- 13 (7) Serum alcohol and toxicology determination; and
- 14 (8) Clinical laboratory technician available in house.
- 15 H. Respiratory therapy services, in house.
- 16 I. Acute spinal cord management, with surgeons capable of addressing acute spinal cord
- 17 injury, and with protocols/procedures to address early assessment of the spinal cord
- 18 injured patient for management or transfer.
- 19 J. Organized burn care for those patients identified in ~~section 306~~ 309 of this chapter in the
- 20 ~~Statewide Emergency Medical and Trauma Care System rules, 6 CCR 1015-4~~, with:
- 21 (1) Specialty designation as a burn center; or
- 22 (2) Transfer agreements with a facility with a specialty designation as a burn center.
- 23 K. Rehabilitation services, with:
- 24 (1) Leadership of the service by a physician who is a physiatrist or who specializes
- 25 in orthopedic or neurologic rehabilitation, and
- 26 a. protocols/procedures for the early assessment of the rehabilitation needs
- 27 of the injured child;
- 28 b. physical therapy;
- 29 c. occupational therapy;
- 30 d. speech therapy; and
- 31 e. social services.

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- 1 L. Outreach program, with telephone and on-site consultations with physicians of the
2 community and outlying areas regarding pediatric trauma care.
- 3 M. Injury prevention/public education, with:
- 4 (1) Injury prevention with:
- 5 a. a designated prevention coordinator;
- 6 b. outreach activities and program development;
- 7 c. information resources for the public; and
- 8 d. collaboration with existing national, regional, and state programs.
- 9 (2) Injury control research, which may include:
- 10 a. collaboration with other facilities in prevention research;
- 11 b. monitoring progress/effect of prevention programs; and
- 12 c. special surveillance project/data collection projects.
- 13 N. Trauma research program, with:
- 14 (1) A designated director;
- 15 (2) Regular meetings of the research group;
- 16 (3) Evidence of productivity, to include:
- 17 a. proposals reviewed by an Internal Review Board (IRB);
- 18 b. presentations at local/regional/national meetings;
- 19 c. publications in peer-reviewed journals; and
- 20 d. peer-reviewed extramural funding for research activities.
- 21 O. Continuing medical education (CME), with
- 22 (1) In-house CME for:
- 23 a. staff physicians;
- 24 b. nurses;
- 25 c. allied health personnel; and
- 26 d. community physicians.
- 27 (2) Physician CME requirements for emergency medicine, trauma surgery,
28 orthopedics, and neurosurgery -16 hours CME annually or 48 hours over 3 years,
29 with half outside own facility.

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- 1 (3) Nursing CME requirements for emergency department and ICU - 8 hours
2 annually or 24 hours over 3 years.
- 3 P. Organ/tissue procurement protocols/procedures.
- 4 Q. Trauma divert protocols, to include:
- 5 (1) A method to report trauma diverts to the Regional Emergency Medical and
6 Trauma Advisory Council (RETAC) for monitoring;
- 7 (2) A method for notification of prehospital providers when on divert;
- 8 (3) Facility defined criteria for going on divert, not to exceed those identified in the
9 definition section of this chapter; and
- 10 (4) A method for monitoring times and reasons for going on divert.
- 11 R. Trauma transfer agreements as a transferring and receiving facility, renewed every 3
12 years.
- 13 S. Interfacility consultation protocols/procedures for attending surgeon availability for
14 responding to mandatory consultations and arranging transfers from Level I, II, III, IV, and
15 non-designated trauma centers.
- 16 T. A trauma registry as required in 6 CCR 1015-4, Chapter 1 ~~of the Statewide Emergency~~
17 ~~Medical and Trauma Care System rules, 6 CCR 1-15-4,~~ and trauma data entry support.
- 18 U. ~~A quality assurance program~~ PERFORMANCE IMPROVEMENT PROCESS in accordance with
19 Section 303 (O) .3.A of this chapter. ~~of the Statewide Emergency Medical and Trauma~~
20 ~~Care System rules, 6 CCR 1015-4.~~
- 21 V. Participation in RETAC quality improvement programs established in accordance with 6
22 CCR 1015-4, Chapter 2 TWO. ~~of the Statewide Emergency Medical and Trauma Care~~
23 ~~System rules, 6 CCR 1015-4.~~