

Spiotta, Alejandro M, y Salvador Martorell Matoses. 2011. «Neurosurgical Considerations After Bull Goring During Festivities in Spain and Latin America». *Neurosurgery* 69 (2) (Agosto): 455-461. doi:10.1227/NEU.0b013e3182191fb1.

El [Hospital Clínico Universitario de Valencia-España](#) y el Cerebrovascular Center, Neurological Institute, Cleveland Clinic en Ohio publican en Agosto 2011 en la revista *Neurosurgery*

Consideraciones neuroquirúrgicas tras herida por asta de toro en España y América Latina.

La víctima de un accidente por asta de toro puede tener una combinación de trauma penetrante y cerrado craneal y cervical en un 3,1% a 19% de los casos.

Estos pacientes se deben evaluar y tratar como politraumatizados con las pautas establecidas por la

[Brain Trauma Foundation](#)

Este algoritmo permite una evaluación rápida y triaje que es relativamente simple y fácil de seguir.

Se hace hincapié en la necesidad de determinar los sujetos con mayor riesgo de herniación inminente y la identificación de fuentes de sangrado para evitar la hipotensión.

El artículo se publica en la revista *Neurosurgery* y es free

[Artículo](#)

Field Management of Combat-Related Head Trauma

BTF
BRAIN TRAUMA
FOUNDATION

- Control massive bleeding
- Initiate ABC resuscitation
- Consider c-spine precautions for high-risk blunt trauma
- Administer 100% oxygen when available
- Assist ventilations
- Determine need for immediate evacuation

Calculate initial GCS[†] score & assess pupils

- [†] Signs of Impending Herniation
- Asymmetric Pupils
 - Fixed Dilated Pupil
 - Extensor Posturing
 - Widening Pulse Pressure

GCS 3-8

If GCS 3-8, prepare for rapid evacuation

Impending herniation?[†]

Yes

Stabilize airway
hyperventilate
consider ALS airway

See Intubation/
COMBITUBE
Protocol

No

Assess SaO₂ and
administer 100% oxygen
if available to
maintain > 90%

Re-Assess
source of
bleeding

Monitor EtCO₂ if possible
maintain between
35-45mmHg

Control bleeding

Re-Assess
circulation
SBP <90mmHg

Yes

Initiate fluid
resuscitation*

No

IV TKO

Re-Assess GCS score
& assess pupils

GCS 3-8

Immediate
evacuation
necessary

GCS 9-13

Evacuation from
field
(can be delayed)

GCS 14-15

Remain in field
observation and
reassessment
necessary

[†]Glasgow Coma Scale
GCS Scoring should be completed after the initial resuscitation of ABC's. During the initial assessment, field providers may use AVPU scoring to gauge a rough level of mentation.

Eye	Spontaneous	4
Opening	To Voice	3
	To Pain	2
	None	1
Best Verbal Response	Oriented	5
	Confused	4
	Inappropriate words	3
	Incomprehensible sounds	2
	None	1
Best Motor Response	Obeys Commands	6
	Localizes Pain	5
	Withdraws (Pain)	4
	Flexion (Decorticate)	3
	Extension (Decerebrate)	2
	None	1

Any casualty with a GCS ≤ 14 should not return to full duty until GCS resolves to 15 and is asymptomatic

- * Fluid Resuscitation
- 500ml bolus HTS
 - follow with isotonic crystalloid to maintain SBP > 90mmHg ~or~
 - isotonic crystalloid infusion to maintain SBP > 90mmHg

Important Points to Remember

1. Oxygen 100% per NRB mask or BVM as needed.
2. Not all casualties require ALS airway management. Some may be easily managed with BLS adjuncts and a BVM.
3. Aggressive airway management may be needed if the ventilations are not effective. Secure the airway and assist ventilations PRN.
4. Monitor and maintain SaO₂ > 90%.
5. Monitor and maintain systolic BP > 90mmHg.
6. Perform serial GCS exams q 5-10 min and PRN.
7. Monitor and maintain EtCO₂ should be between 35-45 mmHg.
8. Hyperventilation only for signs of herniation.
9. Isolated head injuries do not cause shock. If shock is present look for other causes.
10. Any casualty with a GCS ≤ 14 should not return to full duty until GCS resolves to 15

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=herida_por_asta_de_toro

Last update: **2025/03/10 15:12**

