

Variables which were a priori identified and systematically captured, based upon a review of the four references/guidelines [1-4]

Overall clinical performance
Overall execution of first assessment (primary endpoints)
<i>According to the recommendations of assessment and management of coma [1, 2]</i>
Patient's history assessed
Time from simulation start until patient's history assessed
Coma recognized
Time from simulation start until coma recognized
Responsiveness checked
Time from simulation start until responsiveness checked
GCS scored completely at least once
Time from simulation start until GCS scored completely at least once
GCS scored correctly
Call for additional staff
Time from simulation start until call for additional staff
<i>According to the recommendations of the ABCDE approach for general emergency management [3, 4]</i>
All ABCDE systems checked at least once
A irway checked at least once
Time from simulation start until airway checked at least once
B reathing checked at least once
Time from simulation start until breathing checked at least once
C irculation / pulse checked at least once
Time from simulation start until circulation / pulse checked at least once
D isability (neurologic) checked at least once
Time from simulation start until disability (neurologic) checked at least once
E xposure / head-to-toe examination at least once
Time from simulation start until exposure / head-to-toe examination at least once
Critical ancillary tests (secondary endpoints)
<i>According to the recommendations of assessment and management of coma [1, 2]</i>
Number of ancillary tests checked/performed at least once
Toxicological screening checked at least once
Time from simulation start until toxicological screening checked at least once
Call for extended toxicological screening for rare toxins at least once
Time from simulation start until call for extended toxicological screening for rare toxins at least once
Calculation of osmolal gap at least once
Time from simulation start until calculation of osmolal gap at least once
Blood gas analysis checked at least once
Time from simulation start until blood gas analysis checked at least once
Neuroimaging checked at least once
Time from simulation start until neuroimaging checked at least once
EEG requested at least once
Time from simulation start until EEG requested at least once
Lumbar puncture ordered and CSF analysis checked at least once
Time from simulation start until lumbar puncture ordered and CSF analysis checked at least once
Overall executed treatment steps (secondary endpoints)
<i>According to the recommendations of assessment and management of coma [1, 2]</i>
Side positioning for airway protection
Time from simulation start until side positioning for airway protection
Call for tracheal intubation
Time from simulation start until call for tracheal intubation
Oxygen supply

Time from simulation start until oxygen supply
Treatment response checked
Time from simulation start until treatment response checked

In addition, unrecommended but frequently performed actions were captured as recognized during video and audio review

References/guidelines

1. Traub SJ, Wijdicks EF (2016) Initial Diagnosis and Management of Coma. Emerg Med Clin North Am 34:777-793
2. Edlow JA, Rabinstein A, Traub SJ, Wijdicks EF (2014) Diagnosis of reversible causes of coma. Lancet 384:2064-2076
3. Soar J, Nolan JP, Bottiger BW, Perkins GD, Lott C, Carli P, Pellis T, Sandroni C, Skrifvars MB, Smith GB, Sunde K, Deakin CD, Adult advanced life support section C (2015) European Resuscitation Council Guidelines for Resuscitation 2015: Section 3. Adult advanced life support. Resuscitation 95:100-147
4. Truhlar A, Deakin CD, Soar J, Khalifa GE, Alfonzo A, Bierens JJ, Brattebo G, Brugger H, Dunning J, Hunyadi-Anticevic S, Koster RW, Lockey DJ, Lott C, Paal P, Perkins GD, Sandroni C, Thies KC, Zideman DA, Nolan JP, Cardiac arrest in special circumstances section C (2015) European Resuscitation Council Guidelines for Resuscitation 2015: Section 4. Cardiac arrest in special circumstances. Resuscitation 95:148-201