Patients and Families

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Administering Care to Critically Ill Patients with FAST HUGS IN BED PLEASE - Revisited Mnemonic

In the ICU, providing better care with less is the holy grail. This mnemonic tries to resume a list of the key interventions for human, evidence-based and patient-centred care.

Background

In 2005, Prof Jean-Louis Vincent introduced the mnemonic “FAST HUG,” advocating for a comprehensive approach to patient care encompassing seven key components: Feeding, Analgesia, Sedation, Thromboembolic prevention, Head-of-bed elevation to 30-45°, stress Ulcer prophylaxis, and Glucose control (Vincent 2005). This paradigm shift has had a profound impact within the critical care domain, fostering a patient-centred approach that prioritises mental well-being, reduces invasive interventions, and promotes judicious fluid management.

Subsequently, in 2009, William Vincent and Kevin Hatton refined the mnemonic to “FAST HUGS BID,” tailoring it for surgical patients. This expanded version incorporates additional elements: Fluid management, consideration of Spontaneous breathing trials, meticulous Bowel care, timely removal of Indwelling catheters, and prudent De-escalation of antibiotic use (Vincent and Hatton 2009).

In a more contemporary context, 2021 saw Chris Nickson’s contribution through the “Life in the Fast Lane” blog, wherein the mnemonic was further enhanced to “FAST HUGS IN BED Please”. This iteration takes into account the intricacies of care in the emergency department, encompassing Fluid therapy and Feeding; Adequate Analgesia, administration of Antiemetics, and provision of Diphtheria booster/vaccine; Thoughtful Sedation and consideration of Spontaneous breathing trials; Thrombo-prophylaxis measures; Tetanus prophylaxis; Head elevation (30°) for intubated patients; proactive Ulcer prophylaxis; vigilant Glucose control; thorough Skin and Eyecare, along with proper suctioning; management of Indwelling catheters; Nasogastric tube maintenance; meticulous Bowel care; Environment optimisation (including temperature control and conducive surroundings for delirium management); De-escalation strategies (pertaining to end-of-life decisions and cessation of unnecessary treatments); and comprehensive Psychosocial support for patients, families, and staff (Nickson 2021). This updated rendition provides a more encompassing framework, rendering it a highly practical tool. Within our medical practices, it has been embraced across the spectrum - from the intensive care unit to the emergency department and hospital wards.

Administering Care to Critically Ill Patients with FAST HUGS IN BED PLEASE

We present a revised iteration of the mnemonic, incorporating often overlooked aspects:

F: Feeding

Conduct a thorough nutritional assessment and provide support as required. Emphasise the importance of adequate nourishment, as prolonged fasting can detrimentally impact outcomes. Even in surgical scenarios, short fasting is the prevailing practice. In the emergency department, proactive measures can be taken to ensure meal provision and, if necessary, consultation with nutri-
interventional analgesic techniques (Devlyn 2018). Antiemetic agents such as ondansetron or alcohol in cotton swabs can be contemplated for patients grappling with nausea triggered by analgesic use or underlying medical conditions.

S: Sedation and Spontaneous Breathing Trial
Administer sedation only as necessary and strive for prompt withdrawal. Prioritise optimal analgesia and anxiolysis, favouring short-acting medications over benzodiazepines. Caution should be exercised with agents like propofol and dexmedetomidine (Escamilla et al. 2022; Narayan and Petersen 2022). Incorporating awakening and spontaneous breathing trials into the care regimen is pivotal, especially for mechanically ventilated patients whose intubation cause is controlled. These interventions contribute to a judicious balance between patient comfort and their progression towards self-regulated respiration.

T: Thromboprophylaxis
Thromboembolic occurrences persist as significant contributors to morbidity and mortality within the inpatient setting. Utilising scoring systems such as Caprini and Padua offers insights to tailor optimal prophylactic strategies for each individual. From early mobilisation to employing parenteral thromboprophylactic agents like enoxaparin or compression pneumatic stockings, tailored approaches are pivotal. Specialised evaluation considering orthopaedic, cancer, autoimmune, critically ill, and surgical contexts play a pivotal role in averting thromboembolic complications. Recognising that a universal approach doesn't suffice, it becomes imperative to individualise interventions for enhanced efficacy (Sebaaly and Covert 2018; Amer et al. 2023).

H: Head Position and Humanised Care
Adapting the head position to suit individual needs is paramount. Varied positions offer unique benefits, and even a single patient can derive advantage from different orientations at distinct phases of care. Meticulous assessment and adherence to guidelines not only enhance patient comfort but also ensure their safety. Individuals vulnerable to or exhibiting cranial hypertension, particularly those on mechanical ventilation, may find positioning at an incline of 35-45° advantageous (Maschmann et al. 2019; Dabrowski et al. 2021). Humanised care and improving communication can empower the patient and family and promote personal care and hygiene. The use of hearing aids, glasses, and dentures are feasible and established recreation strategies (Wilson et al. 2019).
is commonly used to manage hospital hyperglycaemia, euglycaemic agents such as metformin and GLP-1 receptor agonists can also prove valuable.

S: Skin/Eye Care
Dermatological complications often emerge during hospitalisation, contributing to significant morbidity even if not typically life-threatening. Manifestations like pressure sores, intertrigo, and symmetrical peripheral gangrene underscore the importance of skin and eye care. Additionally, careful skin evaluation can aid in the identification of adverse drug reactions (Bromley et al. 2023). Particularly noteworthy are pressure ulcers, which pose a significant challenge for immobilised patients. Implementing standardised prevention protocols involving healthcare professionals across the spectrum, from doctors to auxiliary staff, is essential to mitigate this concern (Mervis and Phillips 2019). Simultaneously, ocular health demands attention, with corneal epithelial defects occurring in 20–42% of ICU patients. Impaired tear production and reduced blinking heighten the risk of eye injury. The adoption of standardised eye care protocols has demonstrated efficacy in reducing complication rates and safeguarding ocular health (Hearne et al. 2018).

I: Interdisciplinary Care
Specialised care administered by interdisciplinary teams comprising doctors, nurses, pharmacists, physical therapists, and nutritionists yields improved patient outcomes. Contrasting the multidisciplinary approach, where specialists operate within their defined domains, the interdisciplinary model orchestrates comprehensive patient assessment and synthesis of information to devise a unified and cohesive care strategy (Choi et al. 2006). Central to this approach is the collaboration of diverse specialists who collectively scrutinise patient cases. This cohesive teamwork enables the creation of a comprehensive care plan, encompassing inputs from all relevant disciplines (Giusti et al. 2017). The value of early engagement with suitable specialists cannot be overstated. Prompt consultations expedite interventions when required. For instance, infectious disease consultations have demonstrated their capacity to reduce mortality rates in both critically ill and non-critically ill patients within the intensive care unit (Jiménez et al. 2019). Similarly, oncology team involvement coupled with general surgery consultations has proven instrumental in enhancing long-term outcomes for patients newly diagnosed with cancer (Hujits et al. 2021; Butt et al. 2015). By embracing an interdisciplinary approach, healthcare teams synergise their expertise to provide holistic, timely, and tailored care, thereby augmenting patient well-being and treatment efficacy.

N: NEWS2 Score
The implementation of early warning systems, exemplified by the NEWS2 score, holds a pivotal role within hospital settings, functioning akin to a triage mechanism. As patients traverse their hospital journey, these systems adeptly detect shifts in their clinical trajectory, facilitating timely adjustments in the level of care, including potential transfer to the ICU. Moreover, they serve as triggers for rapid response teams to promptly address critical situations, thereby substantially elevating patient safety and overall outcomes (Scott et al. 2020). The integration of specialised rapid response teams, accompanied by tailored protocols, emerges as a cornerstone for bolstering adherence to standardised procedures. This concerted effort yields a marked enhancement in clinical outcomes across a spectrum of medical domains. Illustrative examples encompass sepsis, myocardial infarction, obstetric emergencies, paediatric crises, respiratory complications, and both ischaemic and haemorrhagic strokes (Girotra et al. 2022). Through such deliberate implementation, hospitals cultivate an environment characterised by efficient and coherent responses, culminating in a pronounced enhancement of patient well-being.

B: Bowel Care
Comprehensive bowel care necessitates evaluating the suitability of oral or enteral routes for medication and diet tailored to individual needs and circumstances. Rigorous monitoring of bowel movements and assessment of stool characteristics are paramount, accompanied by proactive management of constipation or diarrhoea. Should concerns arise regarding intrabdominal pressure, its measurement assumes significance while mitigating the potential risks associated with bacterial translocation (Bowel Care in Critical Care 2020).

E: Environment
Crafting a conducive environment holds pivotal importance in ensuring patient comfort. Sustaining an appropriately warm room temperature fosters well-being. Meticulous modulation of light and noise, aligned with circadian rhythms, alongside regulated
exposure to natural sunlight, establishes essential day-night routines. Frequent reorientation, active family engagement, and accessible critical care spaces coalesce to avert delirium, resulting in heightened patient perception of quality and enhanced clinical outcomes (Saran et al. 2020; Horsten et al. 2018).

D: De-escalate/Escalate/Discontinue Care (Chronic and Acute Treatments)

The timely initiation of antibiotics, especially in cases of sepsis, is paramount. Innovative microbiological molecular diagnostics implemented within the initial hours can inform judicious antibiotic use, given their ability to provide insights into resistance genes. Swift and aggressive control of the infection source significantly enhances patient outcomes. Subsequent adjustment or discontinuation, guided by culture antibiograms and protein C and procalcitonin levels, facilitates the reduction of antibiotic usage, consequently diminishing the risk of resistant infections and overexposure. This approach leads to a reduction in ICU and hospital stays (Honda et al. 2010; Butt et al. 2015). For vasopressors, mechanical ventilation, sedation, and all therapeutic agents, a careful evaluation is imperative to determine the continuation, adjustment, or discontinuation of IV lines based on the patient’s clinical status and prognosis. Peripheral lines can often suffice for patients who require IV treatment, while peripheral-inserted central catheters (PICCs) are suitable for prolonged therapies. Central venous access, which is reserved for specific cases, serves as an option for drugs that can damage vessels or involve high osmolarity solutions. The use of ultrasound guidance should be emphasised for both central and peripheral venous access. It’s critical to limit unnecessary central access, as even peripheral lines benefit from ultrasound-guided insertion. Implementing catheter clinics specialising in complications prevention not only enhances outcomes but also curtails morbidty, underscoring the importance of prompt line removal (Lakbar et al. 2020). Invasive devices, including extracorporeal support, Foley catheters, and nasogastric tubes, should be promptly removed once their necessity diminishes. This approach aligns with the principle of minimising unnecessary interventions, a practice that improves patient outcomes and reduces complications (Benjamin et al. 2017; Nollen et al. 2023).

P: Psychosocial Support

Providing comprehensive psychosocial support, encompassing patients, families, and staff, is a fundamental aspect that extends to the implementation of a standardised suicide protocol. The hospital environment frequently witnesses challenges of anxiety and depression among patients, particularly those facing prolonged stays, issues such as stomas, limb amputations, disabilities, and chronic or catastrophic diseases. Swift intervention from mental health specialists proves pivotal, enhancing patient outcomes and well-being. For critically ill patients, vigilant depression screening is essential, considering its significant prevalence (Fernando et al. 2022). The establishment of a suicide protocol represents a crucial step towards rendering holistic care for individuals with suicidal tendencies. This protocol should extend its reach to encompass the mental well-being of the patient's family. Regrettably, such events can also impact hospital staff, making their mental health equally relevant. The comprehensive approach underscores the interconnectedness of well-being within the hospital environment, embracing patients, families, and staff alike (Liao et al. 2020).

L: Limiting Care

In some instances, patients may reach a stage where the benefits of ICU or hospital care are limited. Acknowledging this juncture is crucial, enabling open discussions among the medical team and family to navigate end-of-life considerations. At this stage, palliative measures such as benzo-diazepines and opioids can be employed to provide comfort and ease symptoms associated with the advanced disease stage. This compassionate approach encompasses the physical and emotional well-being of the patient, ensuring a dignified and supportive transition (Nieto et al. 2015). In some instances, patients may reach a stage where the benefits of ICU or hospital care are limited. Acknowledging this juncture is crucial, enabling open discussions among the medical team and family to navigate end-of-life considerations. At this stage, palliative measures such as benzo-diazepines and opioids can be employed to provide comfort and ease symptoms associated with the advanced disease stage. This compassionate approach encompasses the physical and emotional well-being of the patient, ensuring a dignified and supportive transition (Nieto et al. 2015). In some instances, patients may reach a stage where the benefits of ICU or hospital care are limited. Acknowledging this juncture is crucial, enabling open discussions among the medical team and family to navigate end-of-life considerations. At this stage, palliative measures such as benzo-diazepines and opioids can be employed to provide comfort and ease symptoms associated with the advanced disease stage. This compassionate approach encompasses the physical and emotional well-being of the patient, ensuring a dignified and supportive transition (Nieto et al. 2015). In specific circumstances, the ongoing use of chronic treatments might be deemed appropriate, while in other cases, adjustment might be necessary even if the treatment isn’t directly linked to the primary cause of hospitalisation. For example, anticoagulation drugs, antibiotics, immunosuppressants, antihypertensives, and thyroid medication could necessitate adaptation when a patient is dealing with severe illness or undergoing major surgeries. Similarly, diabetes medication generally remains suitable for most patients, although it may require modification to ensure optimal management during the hospital stay. This tailored approach to medication management ensures that patient health and safety are upheld in diverse clinical scenarios. Detecting medications that are contraindicated for a patient is feasible, particularly in the geriatric population. Beer's criteria, STOPP/V2, or EU(7) protocols can be referenced to identify inappropriate medications (Wilson et al. 2019). This conscientious approach to medication management enhances patient safety and well-being.

A: Admission/Discharge/Transfer

The emergency department often presents an environment conducive to delirium, characterised by noise, constant illumination, high activity levels, and occasional chaos. Timely admission is crucial as delaying it can heighten the risk of delirium, especially in predisposed patients. Similarly, delaying discharge can lead to anxiety and discomfort due to the same environmental factors while also potentially congesting patient flow within the emergency department. Transferring patients to specialised units...
promptly has been shown to enhance outcomes, particularly evident in cases of acute myocardial infarction, stroke, cerebral haemorrhage, or severe trauma (Rosa et al. 2020; Yang et al. 2016; Escamilla et al. 2022).

S: Shock (Suspect, Workup, and Treatment)

Early detection of severe conditions is pivotal to ensure optimal care delivery. Adhering to current treatment recommendations not only improves outcomes but also curtails hospitalisation days and resource utilisation. The various types of shock—septic, hypovolaemic (haemorrhagic and non-haemorrhagic), obstructive, cardiogenic, and distributive (metabolic, toxic, medullary, neurogenic, anaphylactic)—all necessitate specific workups and tailored treatments. However, accurate suspicion and confirmation of shock are imperative to initiate these targeted interventions. (Narayan et al. 2022).

E: Early Mobilisation and Falls Prevention

Commencing early rehabilitation from day one proves instrumental in bolstering muscle strength and facilitating early mobilisation. This practice not only diminishes the risk of delirium but also mitigates the likelihood of deep vein thrombosis (DVT), thereby contributing to reduced ICU and hospital stays. Furthermore, it aids in facilitating successful weaning and enhancing discharge outcomes (Menges et al. 2021). Implementation of standardised protocols for fall prevention is pivotal. This encompasses comprehensive patient and family education, provision of anti-slip shoes, execution of transfer protocols involving specialised technicians, and even the incorporation of bed sensors for high-risk patients. Such a multifaceted approach effectively minimises the risk of falls, spanning from the emergency department to the discharge phase (Benjamin et al. 2017).

Conclusion

The critical care unit demands a patient-centred approach that extends beyond addressing the disease itself, encompassing the holistic well-being of the individual. Embracing the key principles highlighted in this mnemonic aids in streamlining care, minimising unnecessary interventions, and maximising beneficial outcomes. Keeping these essential pearls in mind during medical rounds serves to curtail oversights and avoid undue interventions. In today’s medical practice, the adage “less is more” rings true, underlining the significance of discontinuing treatments and removing invasive devices once they no longer contribute to patient well-being. By adhering to this principle, positive outcomes are paralleled in their impact to that of timely interventions. Refraining from initiating unnecessary treatments bears the potential to avert complications, shorten ICU or hospital stays, and enhance patient recovery. It is essential to recognise that this mnemonic functions not as a prescriptive “to-do” list but as a gentle reminder to consider the unique needs and circumstances of each patient. The aim is to foster a comprehensive and personalised approach to care that optimises patient outcomes and well-being.

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Conflict of Interest

None.

References


Best Practice Guidance – Bowel Care in Critical Care (2020) Collaborative Regional Benchmarking Group.


