Cheatography

Trauma & ICU Cheat Sheet by Michellephillips02 via cheatography.com/214485/cs/46719/

Metabolic Phases

Ebb Phase (12-24 hours, nut not priority)	Flow Phase (10-14 days)	
Ebb-Phase Response	Acute response	Adaptive Response
Hypovolaemic Shock	Catabolism Predominates	Anabolism Predominates
↓metabolic rate	↑glucocorticoids	Hormonal response gradually diminishes
↓ O2 consumption	↑glucagon	↓ hypermetabolic rate
↓ BP	↑N excretion	Potential for restoration of body protein
↓ Body temp	↑ BMR	Wound healing (depends on nut intake)
	Impaired use of fuels	

Guidelines & References

ESPEN guideline on clinical nutrition in the intensive care unit (2019)

Biochem

by

Increased

ed Decreased by

Serum Albumin

dehydr-	overhydration, hepatic
ation,	failure, ascites, eclampsia,
marasmus	protein losing state, cancer,
(severe	pregnancy, bed rest,
malnutrit-	trauma/post-op, inflammat-
ion), blood	ion/infection/metabolic stress
transfusion	

Serum Prealbumin

severe renal	post-op, liver disease/hepa-
failure, oral	tises, infection, dialysis,
contracep-	hyperthyroidism, hyperglyc-
tives	aemia

Serum Transferrin

iron defici-	pernicious anaemia, overhy-
ency,	dration, chronic infection,
chronic	uraemia (declining renal
blood loss,	function), cancer
hepatitis,	
hypoxia,	
chronic	
renal failure	

By Michellephillips02

Changes to BMR

1	stress, sepsis, iever, pairi,
BMR	adrenaline
Ļ	anaesthesia, sedation, sleep,
BMR	starvation, continuous feeding

Nut Reqs

START AT HIGH END OF EARLY PHASE (84-105kJ/DAY) – Then lower range of critical illness

NEMO – critical illness (105-125kJ/day). Higher end of range in recovery phase

Awake = moves from critical illness to trauma requirements

P: NEMO: 1.2-2.0g/kg/day. Lower range.

Fluid: 30-35ml/kg/day

Avoid overfeeding - risk outweighs benefit

Underweight & healthy weight = ABW

Overweight = IBW

Obese = AdjBW (actual body weight - ideal body weight) x 0.33 + ideal body weight) No guidelines for micros - not a focus in ICU

Prevent malnutrition & catabolism Stimulate/facilitate wound healing Minimise risk associated with feeding Maintain fluid & electrolyte balance

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Strategies

Early EN (within 12-24 hours) = Reduction in pneumonia, mortality. Improved wound healing, GIT function & structure, strength & recovery. o Aim for goal, or 80%+, within 48-72 hours

Gut impaired? = PN w/ trophic feeds (10-20mL of EN).

ONS, purred diet + moderately thick liquids HPHE education

Reduce fluid: restrict IV, diuretic medication, fluid removal via dialysis

Consider: eeb or flow, Med Hx, usual diet pre-hospital, allergies/intolerances, refeeding risk

Monitoring

reqs need to be evaluated and recalculated at least once per week

Wean NGT as oral intake 1

EN: GI S/S

Swallowing function - w/ speechies

Example PESS

P: Inadequate protein-energy intake, altered GI function, impaired nutrient utilisation

Notes

lots of low evidence recommendations due to the nature of the patients – very limited high/Grade A evidence

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