

MALNUTRITION/REFEEDING SYNDROME

MODULE: CORE MEDICINE: CARE OF THE ELDERLY

TARGET: FY1/2 & CT1/2

BACKGROUND:

Re-feeding syndrome is a preventable, under-recognised, and potentially fatal condition. It affects patients who have had a prolonged period of malnutrition, and are then given nutritional support. Refeeding syndrome can cause a precipitous drop in serum electrolyte concentrations, leaving patients susceptible to a host of electro-chemical and metabolic disturbances.

RELEVANT AREAS OF THE CMT CURRICULUM

	Core Medicine						
	A.5.2 Ventricular tachyarrhythmia, D.14.2 Malnutrition						
Knowledge	Demonstrate knowledge of causes of cardio-respiratory arrest						
	Recall the ALS algorithm for adult cardiac arrest						
	Outline indication and safe delivery of drugs used as per ALS algorithm						
	Recall the indications and complications for nutritional supplements and enteral feeding						
	including PEG/NG feeding						
Skills	Rapidly assess the collapsed patient in terms of ABC, airway, breathing and circulation						
	Perform Basic Life Support competently as defined by Resuscitation Council (UK): effective chest						
	compressions, airway manoeuvres, bag and mask ventilation						
	Competently perform further steps in advanced life support: IV drugs; safe DC shocks when						
	indicated; identification and rectification of reversible causes of cardiac arrest						
	Break bad news appropriately						
	Order, interpret and act on initial screening investigations						
Behaviour	Recognise and intervene in critical illness promptly to prevent cardiac arrest such as peri-arrest						
Dellavioui	arrhythmias						
	Maintain safety of environment for patient and health workers						
	Hold a valid ALS certificate						
	Succinctly present clinical details of situation to senior doctor						
	Consult senior and seek anaesthetic team support						
	Recognise importance of sensitively breaking bad news to family						
	Recognise multi-factorial aspect of weight loss, especially in the elderly						
	Liaise with nutritional services appropriately						

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INFORMATION FOR FACULTY

LEARNING OBJECTIVES

Recognition of refeeding syndrome

Management of hypomagnesaemia

Management of ventricular tachyarrhythmia

SCENE SETTING

Location: Hospital ward

Expected duration of scenario: 20 mins Expected duration of debriefing: 40 mins

EQUIPMENT AND CONSUMABLES

PERSONNEL-IN-SCENARIO

SimMan 3G F1
Hospital gown CT1
Cardiac monitor Nurse (faculty)

Crash trolley (Medical Registrar on phone)

100ml bag of fluid with 5g MgSO4 Nasogastric tube and Jevity Ensure food supplement Drug chart with Pabrinex infusion & chlordiazepoxide

12 lead ECG - Torsades de Pointes

PARTICIPANT BRIEFING

Mr John Smith, 74, has been admitted with reduced oral intake and malnutrition secondary to depression and self neglect. He has been on the ward for two days receiving nasogastric feeding. The nurses have been unable to take blood over the weekend. You have been asked to see him because he is complaining of feeling unwell. The ward sister managed to send a set of bloods earlier today.

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FACULTY BRIEFING

'VOICE OF THE MANIKIN' BRIEFING

You are John Smith, 74, who has been admitted into hospital with malnutrition due to reduced oral intake, depression and self neglect. You have been receiving special nutritional supplementation through a nasogastric tube. You are also receiving vitamin supplements and medicine to control your withdrawal from alcohol. You have started to feel unwell, shaky and with funny feelings in your chest. After a few minutes you develop palpitations and these scare you.

IN-SCENARIO PERSONNEL BRIEFING

Nurse (faculty) -

You are busy but will help if asked.

ADDITIONAL INFORMATION

Admission clerking

Admitted due to with self-neglect, depression, malnutrition (BMI 17) NG feeding started after assessing capacity (lacking decision-specific capacity).

Refeeding bloods back after torsades de pointes rhythm started

- If asked for earlier, then say that lab will ring with results as soon as they are ready).

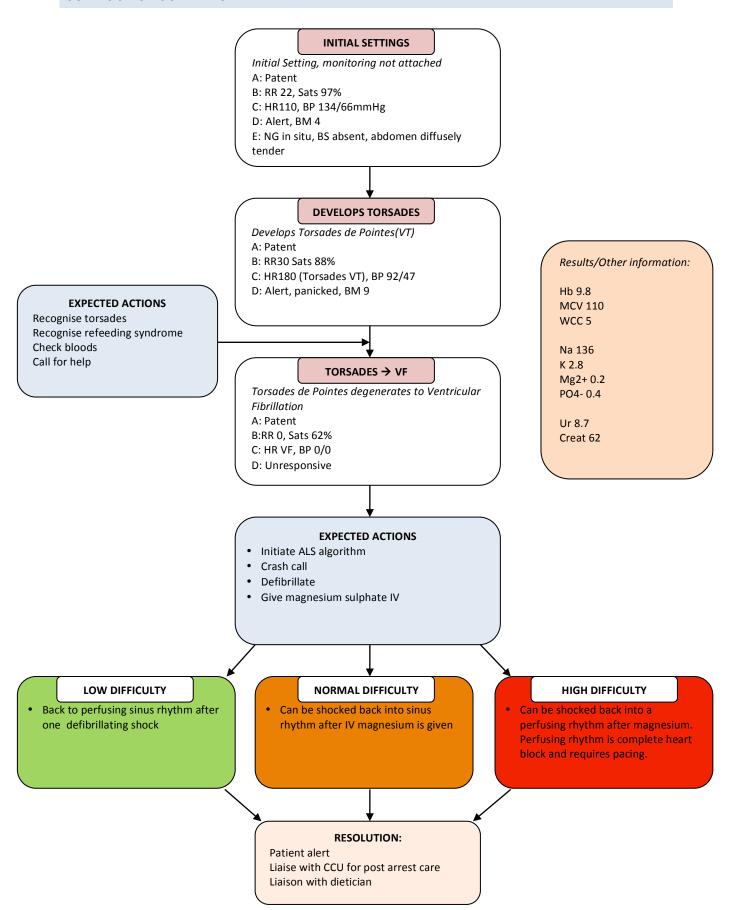
If participant asks for magnesium when patient develops torsades patient should degenerate into VF before magnesium is given.

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CONDUCT OF SCENARIO



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DEBRIEFING

POINTS FOR FURTHER DISCUSSION

Recognition of refeeding syndrome

Management of hypomagnesaemia

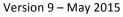
Management of ventricular tachyarrhythmia

DEBRIEFING RESOURCES

http://www.resus.org.uk/pages/als.pdf

http://www.bmj.com/content/336/7659/1495

http://www.nice.org.uk/CG032NICEguideline







GERIATRIC MEDICINE > SCENARIO 8

INFORMATION FOR PARTICIPANTS

KEY POINTS

Recognition of refeeding syndrome

Management of hypomagnesaemia

Management of ventricular tachyarrhythmia

RELEVANCE TO THE CURRICULUM

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FURTHER RESOURCES

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PARTICIPANT REFLECTION

What have you learned from this experience? (Please try and list 3 things)
How will your practice now change?
What other actions will you now take to meet any identified learning needs?

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PARTICIPANT FEEDBACK								
Date of training session:								
Profession and grade:								
What role(s) did you play in the scenario? (Please tick)								
Primary/Initial Participant								
Secondary Participant (e.g. 'Call for Help' responder)								
Other health care professional (e.g. nurse/ODP)								
Other role (please specify):								
Observer								
	Strongly Agree	Agree	Neither agree nor disagree	Disagree	Strongly Disagree			
I found this scenario useful	3		3		3			
I understand more about the scenario subject								
I have more confidence to deal with this scenario								
The material covered was								
relevant to me								
Please write down one thing you have learned today, and that you will use in your clinical practice.								
How could this scenario be improved for future participants? This is especially important if you have ticked anything in the disagree/strongly disagree box.								

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FACULTY DEBRIEF - TO BE COMPLETED BY FACULTY TEAM

What went particularly well during this scenario?
What did not go well, or as well as planned?
Why didn't it go well?
How could the scenario be improved for future participants?

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