Case Study 3

CASE 3(AF)

- The important things to get across in this case are:
 - Sick patients must always go back to bed
 - Hypoxia should be treated with oxygen even though they have CAL
 - Always check an unrecordable BP with a manual machine
 - Work out why the BP has fallen (BP= CO x PVR)
 - Her hands are cool therefore it must be a fall in Cardiac output
 - The increased Heart Rate does not allow for adequate cardiac filling and so SV will fall then CO will fall and then BP will fall (BP = CO x TPR).
 - Left atrium will not expel all the required blood, left atrial pressure will build up and patient will develop piulmonary oedema (hence the worsening hypoxia)
 - 0
- Pt has poor cardiac output due to impaired myocardium from previous ischaemic heart disease and inadequate stroke volume because of rapid ventricular rate.
- Need to slow heart rate, requires a loading dose of digoxin to return to therapeutic levels and frusemide to reduce the end diastolic volume and get the heart back onto the right part of the Starling curve
 - Increasing MEWS
 - BP not recording, try a manual
 - RR increasing & SaO2 decreasing
 - When ECG done shows AF with rapid ventricular response
 - Med chart
 - Digoxin given
 - o Frusemide given
 - o Inhalers given
 - Bloods
 - Digoxin level low



Facilitator Card

Case 3Aim: To recognise a deteriorating medical patientAim: To recognise a deteriorating medical patientAim: To recognise a deteriorating medical patientCommunicate historyObtain appropriate vital signs using appropriate equipmentObtain appropriate vital signs using appropriate equipmentRecognise limitations of electronic equipmentRecognise limitations of electronic equipmentCommunicate effectivelyCommunicate effectivelyAppropriate use of oxygen in a COPD patientPlayer 1 Card - PatientPlayer 2 Card - ENIV CannulaMedication ChartBiolod Test resultsObservation chartFluid balance chart not availableCommunication CardScribing Code Blue Form (Optional)Reles in the scenarioI. PatientProtient R. Scribing Code Blue Form (Optional)Reles in the scenarioAdditional NursesAdditional NursesAl										
patientGlddy: Jones UR 123458Learning Objectives: 	Case 3	<u>Scenario</u>								
 UR 123458 A 78-year-old patient, admitted to hospital because of atrial fibrillation. She has a history of recent falls, IHD, COPD and hypertension. After her morning shower she is more SOB than usual and by lunchtime didn't have much of an appetite. The Enrolled Nurse has come to do the 2 pm vital signs. Appropriate use of oxygen in a COPD patient Equipment: Facilitator Card Player 1 Card - Patient Player 2 Card - EN IV Cannula Medication Chart Blood Test results Observation chart Fluid balance chart not available Communication Card Scribing Code Blue Form (Optional) Roles in the scenario Patient Patient Patient Patient Patient Medical Registrar Optional extras: Additional Nurses Intern Consultant UR 123458 	Aim: To recognise a deteriorating medical									
 Obtain adequate history Obtain adequate history Obtain appropriate vital signs using appropriate equipment Recognise limitations of electronic equipment Refer appropriately Communicate effectively Appropriate use of oxygen in a COPD patient Equipment: Facilitator Card Player 1 Card - Patient Player 2 Card - EN IV Cannula Medication Chart Blood Test results Observation Card Scribing Code Blue Form (Optional) Roles in the scenario I. Patient Registered Nurse Medical Registrar Optional extras: Additional Nurses Intern Consultant Players with further information such as medication charts, observations or blood rest results when asked Network and the appropriate is a conserved to the player and to the player ask of the player and to the player ask of the players ask of the players with further information such as medication charts, observations or blood results when asked 	patient									
 Facilitator Card Player 1 Card - Patient Player 2 Card - EN IV Cannula Medication Chart Blood Test results Observation chart Fluid balance chart not available Communication Card Scribing Code Blue Form (Optional) Roles in the scenario Patient Enrolled Nurse Registered Nurse Registered Nurse Redicial Registrar Optional extras: Additional Nurses Intern Consultant swollen and heart rate is rapid. To start the scenario: To start the scenario: To start the scenario: Assign roles to each player Set up room with the patient in a chair Give the first player card to the player designated as the EN When the RN Phones the Intern place the two players (RN & Intern) back to back to simulate communication via the phone. Allow the scenario to build on itself prompting other players to enter as called for or prompt if necessary Supply players with further information such as medication charts, observations or blood results when asked 	 Obtain adequate history Obtain appropriate vital signs using appropriate equipment Recognise limitations of electronic equipment Refer appropriately Communicate effectively 	atrial fibrillation. She has a history of recent falls, IHD, COPD and hypertension. After her morning shower she is more SOB than usual and by lunchtime didn't have much of an appetite. The Enrolled Nurse has come to do the 2 pm vital signs.								
 Communication Card Scribing Code Blue Form (Optional) Roles in the scenario Patient Enrolled Nurse Registered Nurse Registered Nurse Medical Registrar Optional extras: a. Additional Nurses b. Intern c. Consultant 2. Set up room with the patient in a chair 3. Give the first player card to the player designated as the Patient 4. Give the Second player card to the player designated as the EN 5. When the RN Phones the Intern place the two players (RN & Intern) back to back to simulate communication via the phone. 6. Allow the scenario to build on itself prompting other players to enter as called for or prompt if necessary 7. Supply players with further information such as medication charts, observations or blood results when asked 	 Facilitator Card Player 1 Card - Patient Player 2 Card - EN IV Cannula Medication Chart Blood Test results Observation chart 	swollen and heart rate is rapid. <u>To start the scenario:</u>								
 Patient Patient Enrolled Nurse Registered Nurse Medical Registrar Optional extras: Additional Nurses Intern Consultant b. Intern c. Consultant 	 Communication Card Scribing Code Blue Form (Optional) 	 Set up room with the patient in a chair Give the first player card to the player designated as the Patient Give the Second player card to the player 								
During the Scenario:	 Patient Enrolled Nurse Registered Nurse Medical Registrar Optional extras: Additional Nurses Intern Consultant Relative 	 designated as the EN 5. When the RN Phones the Intern place the two players (RN & Intern) back to back to simulate communication via the phone. 6. Allow the scenario to build on itself prompting other players to enter as called for or prompt if necessary 7. Supply players with further information such as medication charts, observations or blood 								

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compass

If the EN needs prompting:	If the RN asks for the Intern he/she is caught up										
	on the surgical ward and won't be able to come for										
1. What are your first actions?	a long time.										
Suggested Responses	Communication between the RN and Registrar can be										
	face-to-face										
 Check accuracy of the pulse oximeter by 											
checking a manual pulse	The RN needs to be clear about the issues and										
• Oxygen	state what he/she would like the Registrar to do										
• Assistance											
 Move patient back to bed 											
• Manual BP	If the Medical Registrar needs prompting:										
2. Who would you notify?	 What further information do you require & what assessment would you do? 										
• RN	 Full examination 										
• Intern	 History 										
• Registrar											
	What tests would you order?										
The EN should discuss the case face-to-face	• ABG										
with the RN	 Electrolytes 										
Communication should be clear expressing	Digoxin Level										
concerns and what he/she would like the RN to	• CXR										
do											
	3. What is your management plan for this patient?										
T6 the DNI we do not write a	• Oxygen										
If the RN needs prompting:	 IV Access Bloods 										
1 What are your first actions? & Why?	BloodsOngoing vital sign orders										
 What are your first actions? & Why? Oxygen 	 Ongoing vital sign orders Notification 										
 Vital signs 											
 Assist patient back to bed if not already 	<u>To summarise</u>										
2. Who would you notify?	Ask the group:										
Intern	Ask me group.										
 Registrar 	1. What they thought went well?										
	2. What suggestions would they make to improve										
	their roles?										
Take Home messo	nges from Case 3										
	requires a Registrar review										
	e of Resp Rate & the physiology										
3. Communication											
	y and COPD patients										



Case Study 3

Player 1 Card

Patient

You are a 78-year-old patient, Gladys Jones, admitted to hospital because of atrial fibrillation. You have a history of recent falls, IHD, COPD and hypertension. After your shower you noted that you were more SOB than usual and by lunchtime you didn't have much of an appetite. The Enrolled Nurse has come to do your 2 pm vital signs.

You have increased respirations and are quite SOB speaking in short (1-2 word) sentences. Your ankles are swollen your heart rate is rapid.

Case Study 3

Player 2 Card

Enrolled Nurse

You are an EN working on a Medical ward attending to the 2 pm ward observations. You are attending to a 78 year-old patient, Gladys Jones who has been admitted for AF. The patient has a history of recent falls, IHD, COPD and hypertension. You proceed to record the patients' observations.



Case Study 3

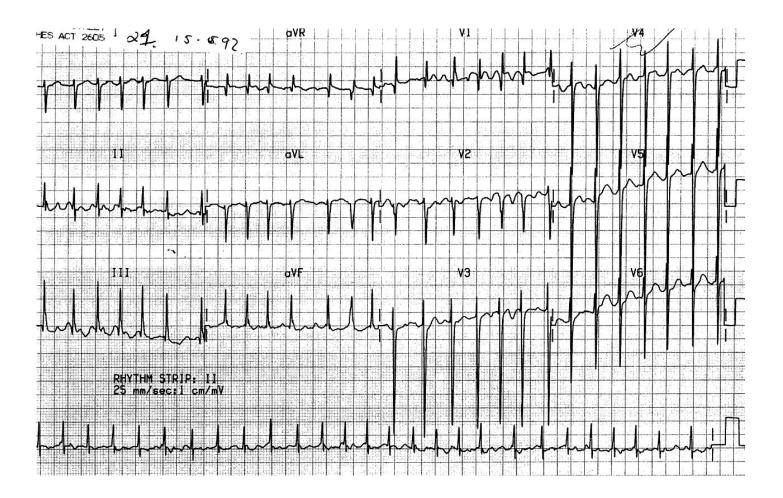
Blood Results

ABG		Normal Range	Other bloods	Normal Range						
PH	7.236	7.35-7.45	Digoxin Level 0.5	1.0-2.0 nmol/L						
PO2	35.3	80-100								
PCO2	60	35-45								
HCO3	30.0	22-26								
BE	+5	-2.4-+2.3								
SaO2	70	95-98%								
Glucose	10.0	3.7-5.2								



Respiratory Acidosis with CO2 retention.





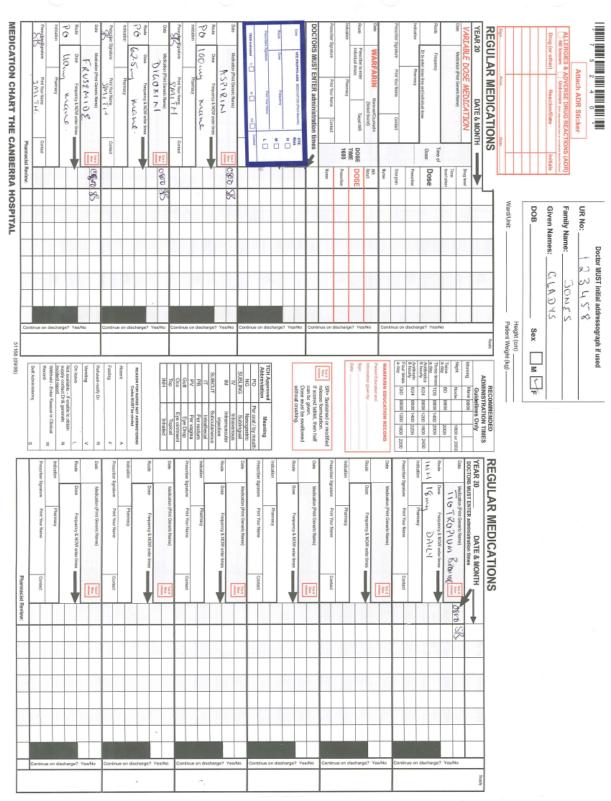


ECG

Atrial Fibrillation

With marked RAD and qR in V1 as evidence of RVH; large S waves in the precordial leads may signify associated LVH.

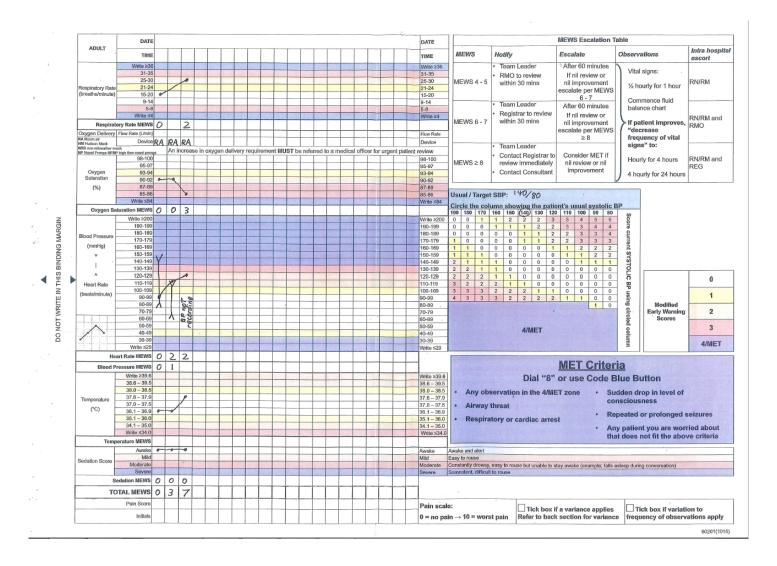




CASE 3

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	ACT Healt	th			F	amily name:		me				~			~							2	
	General	Obser	vatio	on Cha	III - 1	Siven names:		Blood Glucose Level (mmol/L)															
	Adult				0	OB: <u>Case 3</u> Gender:	We	eight (kg)	-										`				
	State of the			Varia	tions to	Frequency of Observations 8 hourly unless otherwise documented below)		wels															
		Date/Time:		_			Ot	her (speally)															
	Freque	ency req	uired:				Ott	her (specify)	-		-	-			-			-			-		
	Medical	officer r	name	:			_																
		Signa	ature	:				Date															
	Variance	to MEV	NS ir	n patier	ts with	a chronic condition:		Time															
	Where a pa	tient has	a pre	-existing	chronic co	ndition that may require variance from the normal scoring	1	SG			_												
	admitting C	onsultant	the re	evised ac	required.	ge for the adjusted vital sign below. Agreement with the Variance must also include a "valid until" date.	=	pH						_									
	Respiratory rate	9	to	24		Reason for Variance to MEWS Criteria: COPD	VSIS	Blood															
	Oxygen	00				Consultant/Registrar Signature: Dr. Von Matterhorn	hart - Adu URINALYSIS	Nitrite	-									-					
	Saturation	88	to	100		Print name: Lorenzo Von Matterhorn	URI	Ketones						-									
	Heart Rate		to		= 0	Date:		Bilirubin						-									
	Sedation					Time: hours	atio	Urobilinoger	1														
	score					Valid until: Discharge	Za	Protein															
	Variance	to MET	in p	atients	with a d	bronic condition:	sqo	Glucose	×														
	Where a pat	tient has	a pre	existing a	chronic co		G	eneral Ins		A CONTRACTOR OF THE			12.4									The second	
	admitting Co	onsultant	or Re	gistrar is	required.	riteria for the adjusted vital sign below. Agreement with the Variance must also include a "valid until" date. (EXAMPLE:	General	Vital sign							row a	ide ide	entified	d by its	range	€.			
	accept SBP beats/min)	down to	80 mr	mHg as k	ong as ale	rt, warm, passing urine and heart rate not greater than 100	 Observations must be represented graphically. For a vital sign in the extreme of a range i.e. RR ≥ 36, write the number. 																
	Respiratory	<	OR	>		Reason for Variance to MET Criteria:		 If vital sign in the extreme of a range i.e. RK 2 50, while the humper. If vital sign falls in coloured area refer to MEWS legend to determine score. 															
	Oxygen	<	OR	>		MET Instructions:		Add all se							logon	101 10	00101	inino o	0010.				
	Saturation	< .	100	>		Name (Consultant/Registrar):	•	 For MEWS ≥ 4 refer to MEWS Escalation Table. 															
	Heart Rate	<	OR	>	= MET	Signature:						,	<i>.</i> '										
	Blood	Systolic	lic BP less than			Date: Time: hours												×					
	Pressure	_	mmHg	-		Valid until:																	
	Communi	cation	for N	/IEWS ≥	: 4																τ.		
	Date	Time	A	Action/c	omment	Print name Signature																	
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