

Title	Gastrointestinal haemorrhage and ALD	Version	1.4
Target Audience	FY doctors & student nurses	Run time	10 -15 mins
Authors	J Foxlee, U Naidoo, M Loughrey, P Wilder	Last review	4/7/18
Faculty comments	Normal faculty requirements	Necessity	n/a

Brief Summary

A young man with mild decompensation of ALD who has been on the ward for several days becomes hypotensive following a (concealed) GI bleed from oesophageal varices.

Educational Rationale

This scenario assesses rapid patient assessment, initial resuscitation and differential diagnosis. The candidate is expected to make a rapid assessment from the notes as well as directly from the patient. The candidate must institute fluid resuscitation and assess its adequacy. The candidate is expected to recognise coagulopathy, the likely cause, and appropriately order/use of blood products targeted to laboratory results.

Learning Objectives: Nurse

- A-E assessment of an acutely deteriorating patient
- Appropriate escalation of an unstable patient
- SBAR handover

Learning Objectives: Doctor

- A-E assessment of an acutely deteriorating patient
- Awareness of differential diagnosis for shock
- Risk stratification for patients with gastrointestinal bleeding
- Medical management of hypovolaemic shock due to GI bleeding
- Communication with patient and SBAR handover with colleagues

No	CURRICULUM MAPPING	This scenario
1	Acts professionally	✓
2	Delivers patient-centred care and maintains trust	✓
3	Behaves in accordance with ethical and legal requirements	✓
4	Keeps practice up to date through learning and teaching	✓
5	Demonstrates engagement in career planning	
6	Communicates clearly in a variety of settings	✓
7	Works effectively as a team member	✓
8	Demonstrates leadership skills	✓
9	Recognises, assesses and initiates management of the acutely ill patient	✓
10	Recognises, assesses and manages patients with long term conditions	✓
11	Obtains history, performs clinical examination, formulates differential diagnosis and management plan	✓
12	Request relevant investigations and acts upon results	✓
13	Prescribes safely	✓
14	Performs procedures safely	✓
15	Is trained and manages cardiac and respiratory arrest	
16	Demonstrates understanding of the principles of health promotion and illness prevention	✓
17	Manages palliative and end of life care	
18	Recognises and works within limits of personal competence	✓
19	Makes patient safety a priority in clinical practice	✓
20	Contributes to quality improvement	

Candidate Briefing: Nurse

Setting	Medical ward
---------	--------------

You are working on the medical ward. Mr Smith is a 44 year old gentleman who was admitted with confusion, diarrhea and vomiting 5 days ago. He is known to have alcoholic liver disease (ALD) and is still drinking.

He had an ascitic tap on admission which was negative. He has been treated for viral gastroenteritis and an ALD decompensation. His confusion and diarrhea have improved greatly and he was walking around the ward this morning and making phone calls.

Candidate Briefing: Doctor

Setting	Medical ward
---------	--------------

You are the house officer on-call for Medicine at the weekend. You have been asked to attend the medical ward to assess a 44 year old man who has become hypotensive and pale.

Your handover sheet lists a history of alcoholic liver disease (ALD). The patient was admitted with a mild decompensation due to viral gastroenteritis.

He has been an inpatient for 5 days.

Technical set-up

Setting	Medical ward		
Simulator	High fidelity manikin		
Gender	Male	Age	44

Initial monitor parameters

RR	O2 sats	Pulse (HR)	BP	ECG rhythm
18	92% on air	110	90/50	Sinus tachycardia
Cap Refill Time	Blood glucose	Temp.		
4s	6.4	35.5		

Initial patient set-up

Airway	Obstruction	Airway adjunct
	No	No

Breathing	Chest sounds	O2 supply
	Normal	Air

Circulation	Heart sounds	Cannula	BP cuff	Peripheral pulses
	Normal	Present	Attached	Weak throughout

Disability	Eyelids	Pupils	AVPU/GCS
	Open	PEARL	14

Exposure	Posture	Moulage	Bowel sounds
	Supine	Dressing from ascitic tap	Normal

Specific equipment / prop requirements

- Monitoring: ECG, non-invasive BP (cuff), pulse oximeter (attached / unattached)
- Crash trolley: available outside the room
- Set of notes - this admission only, patient usually treated in London
- Patient name-band, allergy band (penicillin NB not relevant in this scenario, however will hopefully force drug chart review)
- Drug chart (prefilled)
- ABG (available on request)
- ECG (available on request)
- Chest x-ray (available in X-ray folder on SimMan tablet PC)

Facilitator Briefing

Telephone Advice

This is a relatively straightforward scenario. Depending on how the candidates are performing, you may delay calling them back, be stuck with another patient, or request that investigations are done before they call you back.

- Ask for brief history of admission
- Ask for current state and examination
- Ask for cardiovascular status - pulse volume, capillary refill time, whether hands warm/cold, any signs of sepsis
- Ask about abdominal findings - any haematemesis/melaena? Have they done a PR?
- (if not given) Ask about Hb and haematocrit values - compared with admission
- (if not given) Ask if urea elevated
- (if not given) Ask about clotting
- Ask if G&S sent, is blood available? Request FFP and 4 units RBC
- You will come to review the patient

CONDUCT

- You will be sitting in the control room for the duration
- Answer all calls as “switchboard” in the first instance to allow for realistic delay. Call back after 1 - 2 minutes
- The Medical Registrar should sound busy and state they are tied up with another patient
- They should be helpful but press the candidate hard about what assessment has been performed e.g. nature of pain, findings of physical examination
- If the candidate is not armed with the information, tell them to get the required info and call you back

How to run with candidates from only one discipline

An additional member of faculty can play the role of the nurse in this scenario if needed.

Sim Nurse briefing:

You are a nurse working on the medical ward. Mr Smith is a 44 year old gentleman who was admitted with confusion, diarrhoea and vomiting 5 days ago. He is known to have alcoholic liver disease (ALD) and is still drinking.

He had an ascitic tap on admission which was negative; he has been treated for viral gastroenteritis and an ALD decompensation. His confusion and diarrhoea have improved greatly and he was walking around the ward this morning and making phone calls.

You have performed routine observations and found him to be pale, hypotensive and tachycardic. He is complaining of lightheadedness but no other symptoms; you have called the foundation doctor to assess the patient.

If asked, the patient opened their bowels earlier with dark stool but not melaena.

CONDUCT

Throughout the scenario you should act as a “competent robot” i.e. you should perform all tasks requested to the best of your ability, but should not initiate any treatment on your own. If you are not being effectively instructed by the candidate, you may be prompted via your ear piece by the lead facilitator as to what your next action should be.

If you strongly disagree with management then you are free to question them, stating your reasons.

If asked to give drugs, you should request that they are prescribed on the drug chart. If they are unsure of the dosage please refer them to the BNF or Hospital Guidelines App or via Intranet.

Patient Briefing

Setting Medical ward

Name Sam Smith

Age 44

Gender Male

What has happened to you?

- You attended A&E with confusion 5 days ago. You were also vomiting with diarrhoea.
- Your antibiotics were stopped after 2 days (ascitic tap was negative for infection).
- Diarrhoea settled with loperamide.
- You have gradually improved and your team planned for discharge back to your tertiary centre (Royal Free) after the weekend.

How you should role-play

- Confused but not abusive.
- Feels “unwell” and lightheaded.
- Felt dizzy when walking earlier.
- No melaena/haematemesis.
- No abdo pain.

Your background

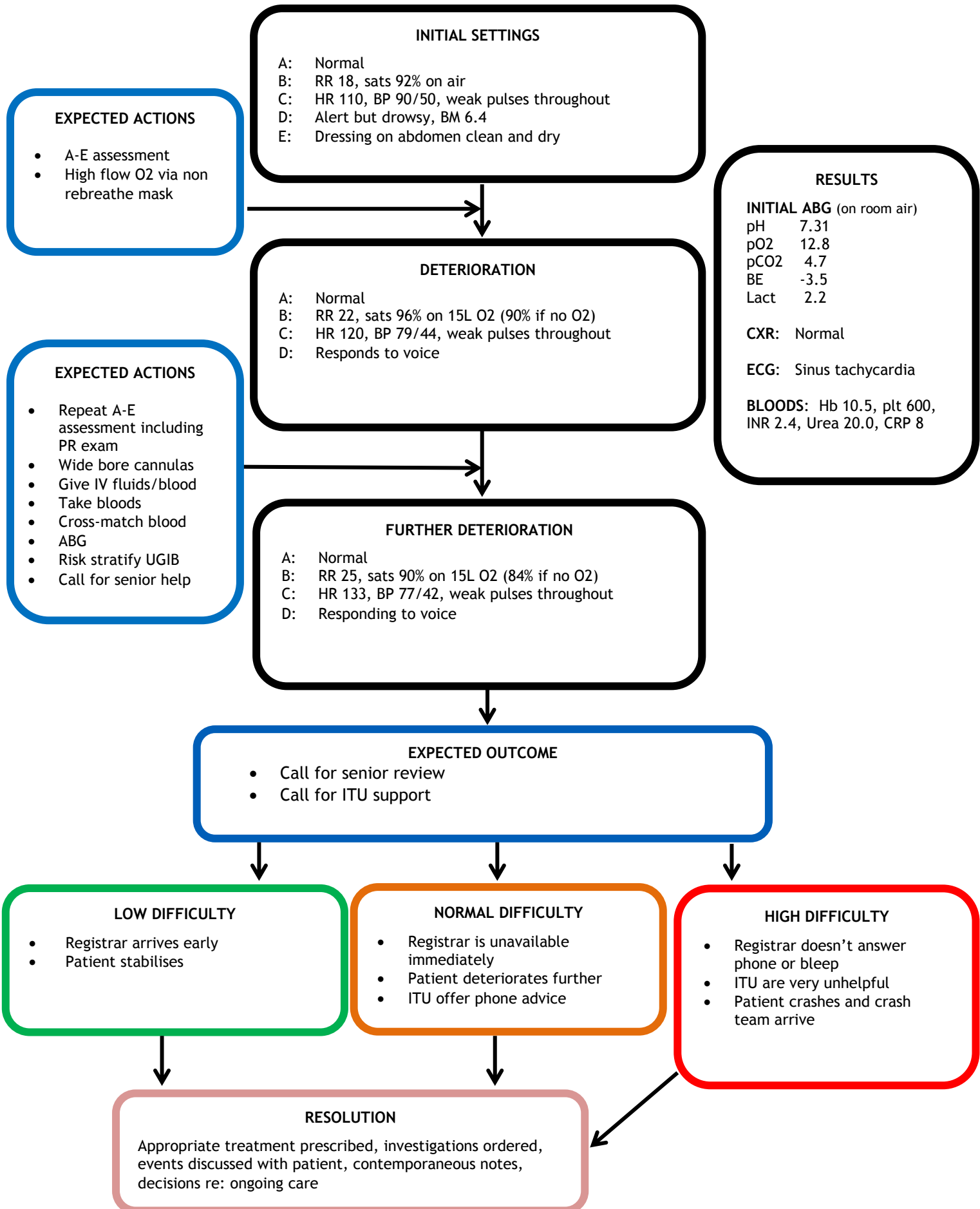
PAST MEDICAL HISTORY

- Alcoholic liver disease - told 5 years ago to “quit drinking or would need a transplant”. (Usually under care of Royal Free Hospital)
- Hypertension - doesn't take tablets
- Multiple falls due to EtOH and #R wrist x2

SOCIAL HISTORY

- Alcohol 60 units+ / week; ongoing for 18 years. Several failed attempts at “detox”. Still drinking
- Smoker
- Lives alone in London (visiting mother in Frimley)
- Unemployed

Scenario flowchart



References

- NICE Clinical Guideline CG141: Acute upper gastrointestinal bleeding in over 16s: management. Issued June 2012. Found at: <https://www.nice.org.uk/Guidance/cg141>
- Local massive haemorrhage protocol.
- EASL Clinical Practical Guidelines: Management of alcoholic liver disease. European Association for the Study of the Liver. 2012. <http://www.easl.eu/medias/cpg/Alcoholic-LiverDisease/English-report.pdf>

Clinical props

RADIOMETER ABL800 FLEX			
Identifications			
Patient ID	789987		
Patient Last Name	SMITH		
Patient First Name	Sam		
Sex	M		
Date of birth			
FO ₂ (I)	21.0	%	
T	35.5	°C	
Sample type	Arterial		
Operator	TEMPHH1		
Blood Gas Values			
↓ pH	7.310		[7.350 - 7.450]
pCO ₂	4.70	kPa	[4.70 - 6.00]
pO ₂	12.8	kPa	[11.1 - 14.4]
Hct _C		%	
Oximetry Values			
ctHb	10.2	g/L	
FO ₂ Hb	91.0	%	[94.0 - 98.0]
sO ₂	92.0	%	
FCO ₂ Hb	1.4	%	[0.5 - 1.5]
FHHb	4.0	%	[0.0 - 5.0]
FMeiHb	0.1	%	[0.0 - 1.5]
Calculated Values			
cBase(Ecf) _C	-3.5	mmol/L	
cHCO ₃ ⁻ (P) _C	20.2	mmol/L	
Electrolyte Values			
cNa ⁺	140	mmol/L	[136 - 146]
cK ⁺	4.0	mmol/L	[3.4 - 4.5]
cCl ⁻	106	mmol/L	[98 - 106]
cCa ²⁺	2.40	mmol/L	[2.2 - 2.45]
Anion Gap _C		mmol/L	
Metabolite Values			
↓ cGlu	3.5	mmol/L	[3.9 - 5.8]
↑ cLac	2.2	mmol/L	[0.5 - 1.6]
cCrea	94	μmol/L	[44 - 97]
Notes			
↑	Value(s) above reference range		
↓	Value(s) below reference range		
c	Calculated value(s)		

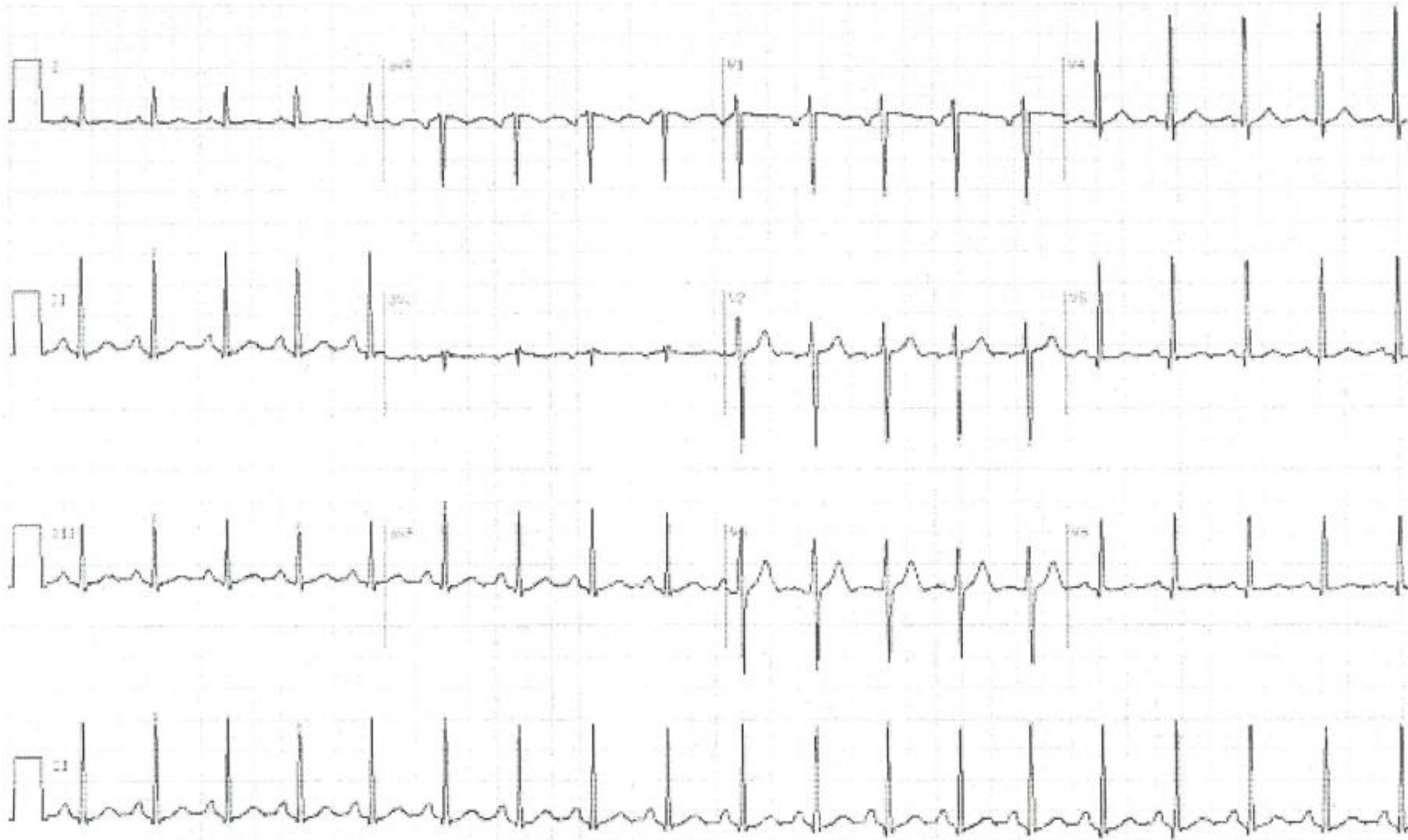
Blood Results

TEST	RANGE	ADMIT	ADMIT+1	ADMIT+2	ADMIT+4	TODAY
Hb	13 - 18	16.8	14.9		14.7	10.5
Hct	0.4 - 0.54	0.56	0.48		0.47	0.45
WBC	4 - 11					
neuts	2.0 - 7.5					
Platelets	150 - 450	402	389		404	600
PT	12 - 14					
INR	0.9 - 1.2	1.9	2.0	1.6	1.4	2.4
APTT	35 - 44	44	43	44	42	43
Na	135 - 145	144	140		139	137
K	2.5 - 7.8	3.2	3.4		3.8	4.2
Urea	2.0 - 7.0	7.5	4.6		5.2	20.0
Creat	50 - 90	100	82		85	89
Albumin	35 - 50	33	33		35	
Bili (total)	< 21	24	20		21	
Bili (unconjugated)						
AST	< 40	34	44		40	
ALT	< 50	43	44		34	
ALP	30 - 130	160	168		158	
CRP	< 4.0	19	12			8

Micro Results

ADMIT	ADMIT +1
Blood cultures - no growth after 48 hours	Ascitic fluid - microscopy NAD
MSU - WCC 4, culture not performed	No growth

SAM SMITH #789987



NEWS - OBSERVATION CHART



Frimley Health
NHS Foundation Trust

Surname: Smith First name: Sam
Hospital number: 12345 D.O.B: 1.1.1975 Date of admission: 5 days ago

		DATE						DATE
		TIME						TIME
A+B Respirations Breaths/min	≥25							≥25
	21-24							21-24
	18-20	18						18-20
	15-17							15-17
	12-14							12-14
	9-11							9-11
	≤8							≤8
A+B SpO2 Scale 1 Oxygen saturation (%)	≥96							≥96
	94-95							94-95
	92-93	92						92-93
	≤91							≤91
SpO2 Scale 2' Oxygen saturation (%) Use Scale 2 if target range is 88-92%, eg in hypercapnic respiratory failure <small>† ONLY use Scale 2 under the direction of a qualified clinician</small>	≥97 on O ₂							≥97 on O ₂
	95-96 on O ₂							95-96 on O ₂
	93-94 on O ₂							93-94 on O ₂
	≥93 on air							≥93 on air
	88-92							88-92
	86-87							86-87
	84-85							84-85
≤83%							≤83%	
Air or oxygen?	A=Air	A						A=Air
	O2 L/min							O2 L/min
	Device							Device
C Blood pressure mmHg Score uses systolic BP only	≥220							≥220
	201-219							201-219
	181-200							181-200
	161-180							161-180
	141-160							141-160
	121-140							121-140
	111-120							111-120
	101-110							101-110
	91-100							91-100
	81-90	90						81-90
	71-80	↑						71-80
	61-70	↓						61-70
	51-60	↓						51-60
≤50	↓						≤50	
C Pulse Beats/min	≥131							≥131
	121-130							121-130
	111-120	110						111-120
	101-110							101-110
	91-100							91-100
	81-90							81-90
	71-80							71-80
	61-70							61-70
	51-60							51-60
	41-50							41-50
	31-40							31-40
	≤30							≤30
	D Consciousness Score for NEWS onset of confusion (no score if chronic)	Alert	A					
Confusion								Confusion
V								V
P								P
U								U
E Temperature °C	≥39.1°							≥39.1°
	38.1-39.0°							38.1-39.0°
	37.1-38.0°	37						37.1-38.0°
	36.1-37.0°							36.1-37.0°
	35.1-36.0°							35.1-36.0°
	≤35.0°							≤35.0°
NEWS TOTAL		6					TOTAL	
Monitoring frequency							Monitoring	
Pain score							Pain score	
Initials							Initials	

National Early Warning Score 2 (NEWS2) © Royal College of Physicians 2017

Version: 201807_004

Product Code:

Hospital Number: 789987					
NHS Number:					
Title: DoB: Surname: SAMM First name: SAM Address: London Postcode: Tel (H): Tel (M): Employer / Educ. Est: Religion: Language:		Sex: M Age: 46 Yrs NOK: Address: Relationship: Tel (H): Tel (M): NOK: Address: Relationship: Tel (H): Tel (M):			
Source of Referral: Date of Arrival: 24/11/14 [5 DAYS AGO] Time of Arrival: 6h 30' Mode of arrival: No of Attendances in past year: 5 Previous Attendance Number:		GP: Address: Tel No: Fax No:			
To be seen in:					
Speciality Expected: Speciality:	Time referred to speciality: Time seen:	Duty/On-Call Emergency Department Consultant:			
Presenting Complaint: D+V					
Triage Nurse: Presenting Complaint: History of Presenting Complaint: DFU x 5 days On Assessment: Previous Medical History: ACO Social History: Overplayd		Time of Triage Triage (ESI) Pain Score Allergies Tetanus Status Triage Treatment Triage Notes			
Temperature	35.7°C	Blood Pressure	100/80	Nurse Concern	
Pulse	110/—	SP O ₂ (Air)	96%	GCS	EVM = /15
Respiratory rate	18	Pupils (Left)		Pupils (Right)	
Peak Flow	(Pre/Post)	Blood sugar	5.6	Weight	
MET SCORE =					



Name	Signature	Initials	Position	Specialty	Date	Time

Have you considered the use of a Chaperone when seeing this patient,
Please refer to the Trust and Emergency Department Chaperone Policy.

Chaperone Used? Y / **N**

Name: _____

Presenting Complaint:

DFU Cornea

HISTORY: (Please continue on continuation sheets if necessary)

S/7 hx of Cornea

DFU 8x daily

abdo distended

Had cholecystectomy 1/52 ago

no haematemesis/melaena

Age >65	
3 Coronary Artery Disease (CAD) Risk Factors: Family history, raised cholesterol, diabetes mellitus, hypertension, active smoker	
Known CAD stenosis >50%	
Aspirin use in past 7 days	
Recent (<24 hours) severe angina	
Raised cardiac markers (CK)	
ST deviation >0.5mm	
TIMI Risk Score	
Age >60	
BP >140/90	
Clinical features: Unilat weak (2 pts) Speech only (1 pt)	
Duration: >60 mins (2 pt) 10-59 mins (1 pt) <10 mins (0 pt)	
Diabetic	
ABCD2 Score (max 7)	

Women of Childbearing age? LMP: Pregnant? Y / N



Past Medical History

Alcoholic hepatitis
 Banding of oesophageal varices
 Ascites
 Fall (Wrist) # x 2.

Diabetes AF Hx Dementia Hypertension IHD/Angina
 COPD Arthritis Epilepsy Asthma Pacemaker

(Please tick relevant conditions if present)

Drugs

Is the patient on anti-cancer medication? YES/NO If yes, what?
 Please contact Lead Chemo Nurse on bleep 277

Pertypyllin i bid.
 Thiamine 100mg od.
 Vit B Strong i od.

Allergies

Drug	Reaction	Date
NKDA		



Hosp No.: 789987

Systematic Enquiry:

None

Family History

None

Social History

Alcohol:60.....units/week Smoking: 20 c/d

Occupation: Retired: Yes/No *many years*

Lives in: House / Flat / Bungalow / WCF / Residential Home / Nursing Home/ Barracks

Surrey / Hampshire / Berkshire/ Other/ Not known

Usually able to go out: Yes / No Lives alone: Yes / No Stairs: Yes / No

Mobility: Independent Services: MOW Carer/s: None
 Stick Bathing services Spouse
 Frame District Nurse Other family
 Wheelchair Day Centre Friend/ Neighbour
 Day Hospital OD BD TDS QDS

Drives: Yes / No

Has memory deficit been present for 6 months or more? Yes No

AMT (N/A)

Age Recognition of two persons Time (to nearest hour) Date of Birth
 Address for recall WW2 Year Present monarch
 Location Count backwards 20 - 1

Score7...../10

If Score 7 or below commence dementia CQUIN Yes No



EXAMINATION

Jaundiced Anaemic Cyanosed Clubbed Lymphadenopathy

Temp 35.3°C Cap Blood Glucose 5.6

General Impression: Yellow +H no L.N.

Cardiovascular

HR 110 reg / irreg BP sitting
BP lying 100/50 BP Standing (Remember >2 mins for Postural BPs)
HS S1 + S2 Murmur? Y N Carotid Bruit? Y N
JVP Oedema

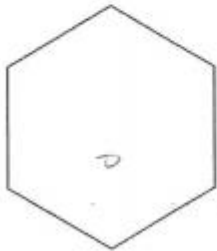
Respiratory

RR 16/min Sats on Air 96% Sats on% O₂
Current PEFR Best PEFR Predicted PEFR

Percussion / Auscultation



Abdominal



4 B/S.

distended
 tense
ascites
no peritonism

Ascites? Y N
PR not done
PV u/A



Neurological

GCS: E 4 V 4 M 6 14 /15

Pupils:

Cranial Nerves: (Not Assessed - tick here:)

Abnormalities:

Peripheral Nerves: (Not Assessed - tick here:)

		Power			Reflexes		Tone	
		Right	Left		Right	Left	Right	Left
Shoulders	abd (c5,6)							
	add (c5,6,7)							
Elbow	flex (c5,6)			Biceps (c5,6)				
	ext (c7,8)			Triceps (c7,8)				
Wrists	flex (c5,7,8)			Supinator (c6)				
	ext (c7,8)							
Hips	flex (l1,2,3)							
	ext (l5,s1,2)							
	abd (l4,5,s1)							
	add (l2,3,4)							
Knees	flex (l4,5,s1,2)			Knee (l2-4)				
	ext (l2,3,4)							
Ankles	flex (l4,5,s1,2)			Ankle (s1,2)				
	ext (s1,2)			Plantar (l5-s2)				

Cerebellar Signs:

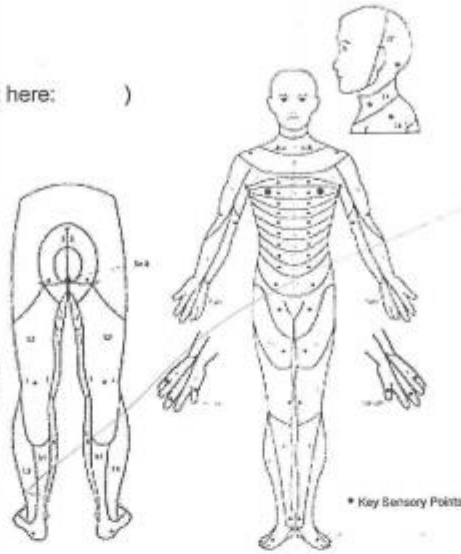
Nystagmus W Gait N
 Finger/Nose N Dysdiadokokinesis N
 Heel/shin N Dysarthria N
 Romberg's test N



Hosp No.: 789987

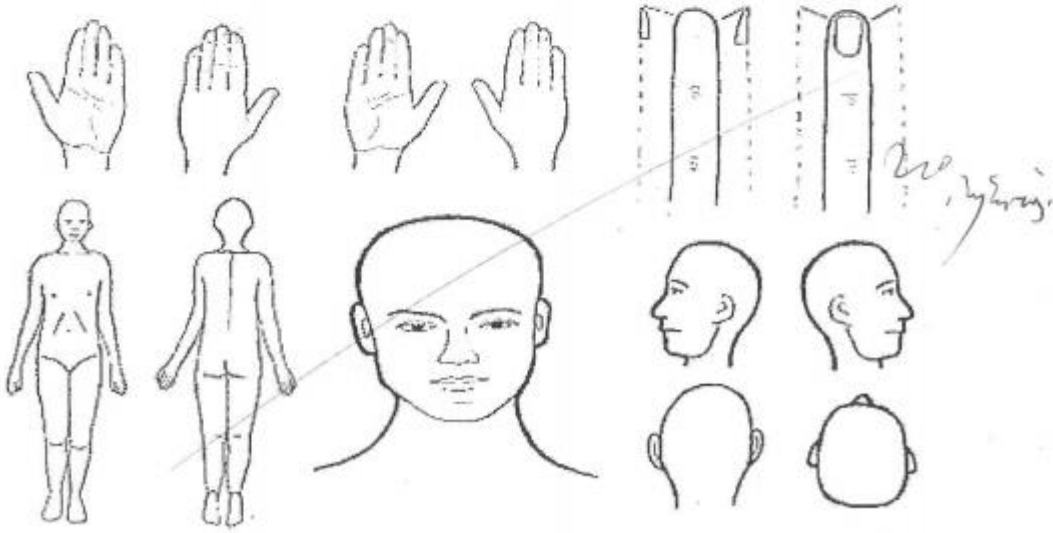
Sensation
(Not Assessed - tick here:)

Anal sensation? Y N



Handwritten signature

Other examination findings / comments:





Initial Impressions / Differential Diagnosis:

Gastroenteritis + Ascites
B6 by ALDx.
Need to exclude SPP

Investigations:

Radiology: CXR AXR CT Head Other.....

Results:

Bloods: FBC Coag / INR ESR
 U&Es LFTs Bone CRP
 Other

Results:

Hb		MCV		Na		Bill		AST		Chol	
WCC		B12		K		Alk P		GGT		HDL	
Neut		Folate		Ur		ALT		Amylase		TG	
Plt		PT		Creat		Alb		CK		LDL	
ESR		APTT		Glucose		PO4		Trop (1)		TSH	
		INR		CRP		Cor Ca		Trop (2)		FT4	

Others: ECG Urine β HCG ABG Other

Results:



Management Plan:

① Continue in bed.
 ② in Pabrinex 7 + 2 tds x 3/7.

Discharge? Y/N
 Refer? Speciality
 Admit CDU? (consider VTE prophylaxis)
 Decision time

VTE Risk? Please assess on separate risk assessment sheet
 Have you started VTE prophylaxis? Y N
 If not - reasons:

MRSA Status: C. Diff status:
 Met Calls Y N For CPR? Y N
 Orange sticker? Y N

Senior Review: Name: *Dr. Jones* Designation: *SHO*

Time Date Signature

First Name(s): <u>Sara</u>	Ward <u>F9</u>	Date chart started	Chart number <u>1 of 1</u>
Surname: <u>Smith</u>	Consultant	Doctor bleep number	Date of admission
Hospital Number: _____			
NHS Number: _____			
Date of Birth: <u>44 years old</u>			

Date weighed	Weight (kg)	Height (M)	Surface area (M ²)	Ideal Body Weight (IBW)	Body Mass Index (BMI)	Diet

Allergies (write 'none known' and sign if none known)

Drug/substance	Details of reaction
<u>Penicillin</u>	

This patient also has the following additional charts (complete and tick relevant box(es))

IV heparin infusion chart		Chemotherapy chart		Medicines reconciliation	
PCA		Epidural			

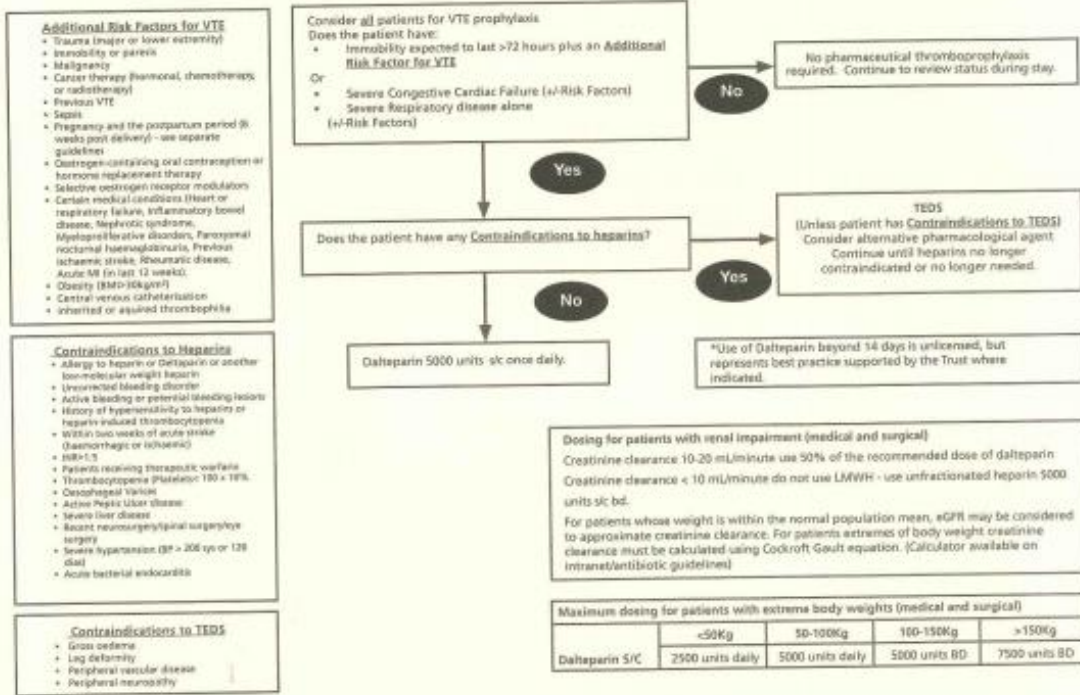
Communication for doctors

Date		Sign and Bleep No	Actioned sign and date

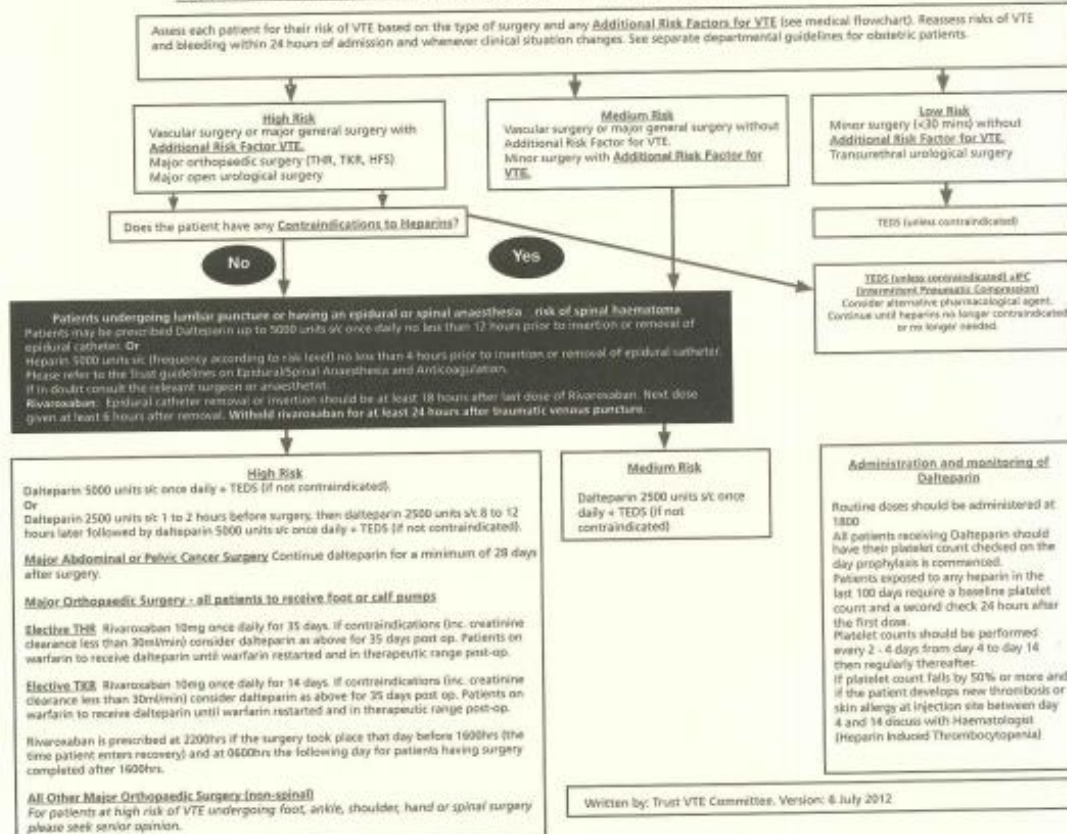
Does this patient smoke: Yes / No
Date of referral to smoking cessation nurse: _____

SIMULATION DRUG CHART
Please use a pencil NOT a pen to prescribe

Prevention of Venous Thromboembolism in Acutely ill Adult Medical Patients (non-obstetric)



Prevention of Venous Thromboembolism in Adult Surgical Patients



RISK ASSESSMENT RECORD SHEET FOR VENOUS THROMBOEMBOLISM (VTE)

- Please use in conjunction with Trust guidelines overleaf
- Please see separate Trust guidelines for obstetric patients

Thrombosis Risk	Patient Related	Procedure Related	Initial Assessment _/_/_	Assessment at 24 hours _/_/_	Assessment at _/_/_	Assessment at _/_/_	
High	Previous VTE						
	Immobility expected to last >72 hours						
	Malignancy						
	Acute or chronic lung disease						
	Acute or chronic inflammatory disease						
	Chronic heart failure						
	Lower limb paralysis (excluding acute stroke)						
	Acute infectious disease, e.g. pneumonia						
	BMI >30kg/m ²						
	Inherited or acquired thrombophilia						
	Pregnancy or less than 6 weeks post partum						
		Hip or knee replacement					
		Hip fracture					
	Other major orthopaedic surgery						
	Surgical procedure lasting >30mins with additional VTE risk factor(s)						
Medium	Estrogen containing oral contraception or HRT						
	Selective oestrogen receptor modulators						
	Age > 60						
	Dehydration						
	Varicose veins with phlebitis						
	Minor surgical procedure with additional VTE risk factor(s)						
	Surgical procedure lasting >30mins with no additional VTE risk factors						
	Plaster cast immobilisation of lower limb						
Low	None of above	None of above					
Bleeding Risk/Contraindications	Patient Related	Procedure Related					
	Haemophilia or other known bleeding disorder						
	Thrombocytopenia (Platelets < 100 x 10 ⁹ /L)						
	Within two weeks of acute stroke (haemorrhagic or ischaemic)						
	Severe hypertension (BP > 200 systolic or 120 diastolic)						
	Severe liver disease						
	Oesophageal Varices						
	Active Peptic Ulcer disease						
	Active bleeding or potential bleeding lesions						
	Major bleeding risk, existing anticoagulant therapy						
	Severe renal disease						
		Neurosurgery, spinal surgery or eye surgery					
		Other procedure with high bleeding risk					
		Lumbar puncture/spinal/epidural in previous 4 hours or anticipated in next 12 hours					
Risk assessment performed by							
Signature							
Copy of Patient Information Leaflet given to patient			Yes	No			

ONCE ONLY DRUGS AND PREMEDICATION.

Date	Time	Drug	Dose	Route	Prescriber Sig. GMC no.	Batch number (vaccines only)	Time given	Sig.	Pharm.

DRUGS ADMINISTERED UNDER MIDWIFERY EXEMPTION AND PATIENT GROUP DIRECTIONS.

Date	Time	Drug	Dose	Route	Batch number (vaccines and blood products only)	Print name	Sig.

REASONS FOR DRUGS NOT ADMINISTERED AND ACTIONS TAKEN.

Date	Time	Drug (s)	Nurses signature	Reason(s) for non administration and action(s) taken

FOR DRUGS NOT ADMINISTERED ENTER THE APPROPRIATE CODE IN THE ADMINISTRATION BOX AND SIGN

1 NIL BY MOUTH
2 REFUSED
3 UNABLE

REGULAR PRESCRIPTIONS

				MONTH/YEAR →	DATE
OXYGEN		Circle target saturation Adjust flow rate to maintain specified oxygen saturation	Target oxygen saturation 88 to 92% 94 to 98%	0800	
PREScriBER'S SIGNATURE	DATE	Other:		1200	
Home Oxygen Indicated: YES / NO Referral to Respiratory Nurse for HOOF Date:				1800	
Nurse to initial against time to confirm oxygen is being administered and meeting specified target. Flow rate is to be documented to the left of the column, i.e.			2L Sign	2200	
PHARMACOLOGICAL VTE PROPHYLAXIS			DOSE	ROUTE	Device
PREScriBER'S SIGNATURE	GMC No.	START	REVIEW	STOP	For device types refer to laminate card
INDICATION AND SPECIAL INSTRUCTIONS		Please tick appropriate status <input type="checkbox"/> NEW <input type="checkbox"/> PRE AD <input type="checkbox"/> CHANGE			
PHARMACY		TO CONTINUE ON DISCHARGE <input type="checkbox"/>			
MECHANICAL VTE PROPHYLAXIS		DOSE	ROUTE		
PREScriBER'S SIGNATURE	GMC No.	START	REVIEW	STOP	
INDICATION AND SPECIAL INSTRUCTIONS		Please tick appropriate status <input type="checkbox"/> NEW <input type="checkbox"/> PRE AD <input type="checkbox"/> CHANGE			
PHARMACY		TO CONTINUE ON DISCHARGE <input type="checkbox"/>			
DRUG (Approved Name)		DOSE	ROUTE		
PREScriBER'S SIGNATURE	GMC No.	START	REVIEW	STOP	
INDICATION AND SPECIAL INSTRUCTIONS		Please tick appropriate status <input type="checkbox"/> NEW <input type="checkbox"/> PRE AD <input type="checkbox"/> CHANGE			
PHARMACY		TO CONTINUE ON DISCHARGE <input type="checkbox"/>			
DRUG (Approved Name)		DOSE	ROUTE		
PREScriBER'S SIGNATURE	GMC No.	START	REVIEW	STOP	
INDICATION AND SPECIAL INSTRUCTIONS		Please tick appropriate status <input type="checkbox"/> NEW <input type="checkbox"/> PRE AD <input type="checkbox"/> CHANGE			
PHARMACY		TO CONTINUE ON DISCHARGE <input type="checkbox"/>			
DRUG (Approved Name)		DOSE	ROUTE		
PREScriBER'S SIGNATURE	GMC No.	START	REVIEW	STOP	
INDICATION AND SPECIAL INSTRUCTIONS		Please tick appropriate status <input type="checkbox"/> NEW <input type="checkbox"/> PRE AD <input type="checkbox"/> CHANGE			
PHARMACY		TO CONTINUE ON DISCHARGE <input type="checkbox"/>			
DRUG (Approved Name)		DOSE	ROUTE		
PREScriBER'S SIGNATURE	GMC No.	START	REVIEW	STOP	
INDICATION AND SPECIAL INSTRUCTIONS		Please tick appropriate status <input type="checkbox"/> NEW <input type="checkbox"/> PRE AD <input type="checkbox"/> CHANGE			
PHARMACY		TO CONTINUE ON DISCHARGE <input type="checkbox"/>			
DRUG (Approved Name)		DOSE	ROUTE		
PREScriBER'S SIGNATURE	GMC No.	START	REVIEW	STOP	
INDICATION AND SPECIAL INSTRUCTIONS		Please tick appropriate status <input type="checkbox"/> NEW <input type="checkbox"/> PRE AD <input type="checkbox"/> CHANGE			
PHARMACY		TO CONTINUE ON DISCHARGE <input type="checkbox"/>			

Reminder: Prescribe on regular prescription and state "see variable prescription"

Insulins - variable dosing

DRUG (Approved name)				ROUTE	MONTH/YEAR → DATE			
				S/C				
PRESCRIBERS SIGNATURE		GMC No.		START	STOP	SIG →		
						U/m	Sig	U/m
DEVICE				Please tick appropriate status				
				<input type="checkbox"/> NEW <input type="checkbox"/> PRE AD				
PHARMACY				TO CONTINUE ON DISCHARGE				
POD H POD W				<input type="checkbox"/> YES <input type="checkbox"/> NO				
DRUG (Approved name)				ROUTE				
				S/C				
PRESCRIBERS SIGNATURE		GMC No.		START	STOP	Breakfast		
						Lunch		
DEVICE				Please tick appropriate status				
				<input type="checkbox"/> NEW <input type="checkbox"/> PRE AD				
PHARMACY				TO CONTINUE ON DISCHARGE				
POD H POD W				<input type="checkbox"/> YES <input type="checkbox"/> NO				
DRUG (Approved name)				ROUTE				
				S/C				
PRESCRIBERS SIGNATURE		GMC No.		START	STOP	Dinner		
						Night		
DEVICE				Please tick appropriate status				
				<input type="checkbox"/> NEW <input type="checkbox"/> PRE AD				
PHARMACY				TO CONTINUE ON DISCHARGE				
POD H POD W				<input type="checkbox"/> YES <input type="checkbox"/> NO				
DRUG (Approved name)				ROUTE				
				S/C				
PRESCRIBERS SIGNATURE		GMC No.		START	STOP	Breakfast		
						Lunch		
DEVICE				Please tick appropriate status				
				<input type="checkbox"/> NEW <input type="checkbox"/> PRE AD				
PHARMACY				TO CONTINUE ON DISCHARGE				
POD H POD W				<input type="checkbox"/> YES <input type="checkbox"/> NO				

WHEN REQUIRED INSULINS

DRUG (Approved name)			Date						
DOSE (UNITS)	ROUTE	FREQUENCY	Time						
	S/C								
PRESCRIBERS SIGNATURE	GMC No.	DATE	DOSE (In Units)						
INDICATION AND SPECIAL INSTRUCTIONS			Route						
PHARMACY			Given by						
DRUG (Approved name)			Date						
DOSE (UNITS)	ROUTE	FREQUENCY	Time						
	S/C								
PRESCRIBERS SIGNATURE	GMC No.	DATE	DOSE (In Units)						
INDICATION AND SPECIAL INSTRUCTIONS			Route						
PHARMACY			Given by						
DRUG (Approved name)			Date						
DOSE (UNITS)	ROUTE	FREQUENCY	Time						
	S/C								
PRESCRIBERS SIGNATURE	GMC No.	DATE	DOSE (In Units)						
INDICATION AND SPECIAL INSTRUCTIONS			Route						
PHARMACY			Given by						

Time	U0		U1		U2		U3		U4		U5		U6		U7		U8		U9	
	Units	Sig	Units	Sig	Units	Sig	Units	Sig	Units	Sig	Units	Sig	Units	Sig	Units	Sig	Units	Sig	Units	Sig

INSULIN SLIDING SCALE

Human soluble insulin (Actrapid)

50 UNITS in 50mL sodium chloride 0.9% IV INFUSION

Date															
Time															
Given by															
Checked by															

BLOOD GLUCOSE RESULT	INSULIN DOSE TO BE GIVEN (UNITS/HOUR)
PRESCRIBER'S SIGNATURE GMC No.	DATE

BLOOD GLUCOSE RESULT	INSULIN DOSE TO BE GIVEN (UNITS/HOUR)
PRESCRIBER'S SIGNATURE GMC No.	DATE

BLOOD GLUCOSE RESULT	INSULIN DOSE TO BE GIVEN (UNITS/HOUR)
PRESCRIBER'S SIGNATURE GMC No.	DATE

ANTIMICROBIAL PRESCRIPTIONS ONLY

DRUG (Approved name)		DOSE		ROUTE	
PRESCRIBER'S SIGNATURE			GMC No.		
INDICATION (MANDATORY)					
START	48 HOUR REVIEW	2ND REVIEW DATE / TIME	3RD REVIEW DATE / TIME	STOP	
REVIEWED BY ⇨					
PHARMACY					
POD H POD W					

DATE →	1 TIMES							

DRUG (Approved name)		DOSE		ROUTE	
PRESCRIBER'S SIGNATURE			GMC No.		
INDICATION (MANDATORY)					
START	48 HOUR REVIEW	2ND REVIEW DATE / TIME	3RD REVIEW DATE / TIME	STOP	
REVIEWED BY ⇨					
PHARMACY					
POD H POD W					

DATE →	1 TIMES							

DRUG (Approved name)		DOSE		ROUTE	
PRESCRIBER'S SIGNATURE			GMC No.		
INDICATION (MANDATORY)					
START	48 HOUR REVIEW	2ND REVIEW DATE / TIME	3RD REVIEW DATE / TIME	STOP	
REVIEWED BY ⇨					
PHARMACY					
POD H POD W					

DATE →	1 TIMES							

DRUG (Approved name)		DOSE		ROUTE	
PRESCRIBER'S SIGNATURE			GMC No.		
INDICATION (MANDATORY)					
START	48 HOUR REVIEW	2ND REVIEW DATE / TIME	3RD REVIEW DATE / TIME	STOP	
REVIEWED BY ⇨					
PHARMACY					
POD H POD W					

DATE →	1 TIMES							

DRUG (Approved name)		DOSE		ROUTE	
PRESCRIBER'S SIGNATURE			GMC No.		
INDICATION (MANDATORY)					
START	48 HOUR REVIEW	2ND REVIEW DATE / TIME	3RD REVIEW DATE / TIME	STOP	
REVIEWED BY ⇨					
PHARMACY					
POD H POD W					

DATE →	1 TIMES							

DRUG (Approved name)		DOSE		ROUTE	
PRESCRIBER'S SIGNATURE			GMC No.		
INDICATION (MANDATORY)					
START	48 HOUR REVIEW	2ND REVIEW DATE / TIME	3RD REVIEW DATE / TIME	STOP	
REVIEWED BY ⇨					
PHARMACY					
POD H POD W					

DATE →	1 TIMES							

MRSA
Status

New	Previous Admission

C. Diff
Status

New	Previous Admission

ONCE DAILY GENTAMICIN PRESCRIPTION
Use gentamicin calculator or intranet to calculate dose.
Level must be taken 6 to 14 hours after the first dose has been given.

Specify Dosing Regime 5mg/kg 3mg/kg Other

Indication: _____

Date to be given	Time to be given	Dose (mg)	Prescribers signature GMC No.	Date of sig.	Start time of infusion	Given by: (sign)	Date and Time blood level taken	Time sign:	Gentamicin Levels mg/l

General Guidance

- All antimicrobial prescriptions MUST follow the Trust's Antimicrobial Policies or MUST have been agreed by Microbiology. See full up to date policy on intranet.
- **INDICATION, STOP AND REVIEW DATES MUST BE RECORDED ON THE CHART.**
- CURB 65 score MUST be recorded for all community acquired pneumonia.
- Check previous relevant microbiology results before prescribing antibiotics and check new microbiology results daily. If a patient is not responding to treatment seek advice from a consultant microbiologist.
- Doses need to be adjusted to suit patient's age, size and renal function. To calculate creatinine clearance use calculator on intranet and see dose adjustments for antibiotics.
- All IV regimes MUST be reviewed at 48 hours and switched to oral if appropriate.

IV SWITCH GUIDELINES

IF YES to all, consider change to ORAL	IF YES to any, remain on IV
Patient able to swallow and tolerate oral fluids?	Oral route compromised?
Temperature settling and < 38°C for at least 48hrs?	Continuing serious sepsis?
Heart rate <100bpm for last 12hrs? (no unexplained tachycardia)	Febrile with neutropenia?
WCC between 4-12x10 ⁹ /L?	Specific indication / deep seated infection. (Meningitis, endocarditis, encephalitis, osteomyelitis, neutropenia, cystic fibrosis, septicaemia, haematology/ immunocompromised pts, continuing sepsis, other severe infections as discussed with microbiology.) Seek microbiology advice if unsure.
Oral formulation available?	
Others markers: BP stable Respiratory rate <20 breaths/min CRP returning to normal and less than 100 (adult)	
Absence of mental confusion (when representing symptoms of infection)	No oral formulation available (seek microbiology advice on alternative)

NOTE: DRUGS MUST NOT BE ADDED TO BLOOD PRODUCTS

Does the patient require CMV negative blood? (Indicate as appropriate) **Yes / No?**

Does the patient need irradiated blood? (Indicate as appropriate) **Yes / No?**

Name: _____
 Hospital Number: _____
 NHS Number: _____
 Date of Birth: _____

BLOOD PRODUCTS TO BE ADMINISTERED					(INCLUDING INTRAVENOUS IMMUNOGLOBULINS)					
Date and Time to be administered	Blood product	Total volume	Route	Drugs required to cover infusion (must be prescribed on once only section of chart)	Duration / rate of infusion	Signature / GMC No.	Batch number/Unit number (Attach sticker)	Start time / stop time	Given by / checked by	Did patient experience adverse reaction? (Yes/No)
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No

Complete label attached to blood product. Detach and return bottom portion via the pink wallet (if available, if not please post to Blood bank)

IF THE PATIENT EXPERIENCES TRANSFUSION RELATED PROBLEMS THESE MUST BE CONTEMPORANEOUSLY RECORDED IN THE PATIENT'S MEDICAL NOTES, AND A TRANSFUSION REACTION FORM AND INCIDENT FORM COMPLETED.

DRUGS TO BE ADMINISTERED BY INTRAVENOUS / SUBCUTANEOUS INFUSION

Date	Time	Infusion solution	Drugs to be added	Total volume	Route	Complete either or <input type="checkbox"/>		Signature GMC No.	Start time/stop time	Given by/checked by	Pharm.
						Rate	Duration of infusion				

Glasgow-Blatchford score

Parameter	Score
<i>Urea (mmol/L)</i>	
6.5-7.9	2
8.0-9.9	3
10.0-25.0	4
>25.0	6
<i>Haemoglobin (g/dL)</i>	
12.0-12.9 (M)/10-11.9 (F)	1
10.0-11.9 (M)	3
<10.0 (M & F)	6
<i>Systolic BP (mmHg)</i>	
100-109	1
90-99	2
<90	3
<i>Pulse (bpm)</i>	
>100	1
<i>Other factors</i>	
Melaena	1
Syncopal episode	2
Evidence of liver disease	2
History of heart failure	2

Rockall score

Variable	Score 0	Score 1	Score 2	Score 3
<i>Pre-endoscopy</i>				
Age	<60	60-79	>80	-
Shock	No shock	Pulse > 100 BP > 100 systolic	Systolic BP < 100	-
Co-morbidity	Nil major	-	Heart failure, IHD, other major morbidity	Renal failure, liver failure, metastatic cancer
<i>Post-endoscopy</i>				
Diagnosis	Mallory-Weiss tear	Other	Cancer	-
Bleeding seen?	none	-	Blood seen, adherent clot seen, spurting vessel seen	

Risk of death and re-bleeding according to post-endoscopy Rockall score

Post-endoscopy score	Death (%)	Re-bleeding (%)
>8	40	37
7	23	37
6	12	27
5	11	25
4	8	15
3	1.9	12
0-2	0	5.9