

Title	Acute asthma	Version	1.4
Target Audience	FY doctors & student nurses (and optionally paramedic)	Run time	10 -15 mins
Authors	Paul Redman, Udesh Naidoo, Paul Wilder, Mark Loughrey	Last review	4/7/18
Faculty comments	Paramedic at start of scenario to issue briefing	Necessity	Desirable

Brief Summary

A 48 year old asthmatic patient has become more breathless over the past 3 hours. This is a common life-threatening disease process that foundation doctors should be able to initially recognise and manage.

Educational Rationale

In the UK there are more than 1000 deaths each year from asthma (approximately 3 every day)¹. It is estimated that up to 90% of these deaths are preventable. Healthcare professionals must be able to recognise the signs of life-threatening and near-fatal asthma. They should be able to implement immediate treatments and know when to refer to critical care. FY2 trainees should be able to work within and lead a team to safely assess and treat asthmatic patients in a timely manner.

Learning Objectives: Nurse

- ABCDE assessment and initial management of patient with life-threatening asthma

Learning Objectives: Doctor

- ABCDE assessment and initial management of patient with life-threatening asthma
- Early recognition of progression to life-threatening / near-fatal asthma
- Appropriate call for help and concise transfer of information (+/- assisting critical care team)
- Demonstrate leadership and MDT team-working skills

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 Emergency department resus bay

You have been called to a resus bay to meet the Paramedic who has brought in a 48 year old patient who has difficulty breathing.

His wife is following but is at least 15 minutes away.

Please assess this patient, together with the doctor.

Candidate Briefing: Doctor

Setting Emergency department resus bay

You have been called to a resus bay to meet the Paramedic who has brought in a 48 year old patient who has difficulty breathing.

Please assess this patient, together with the nurse.

Your registrar is with another complicated patient at the other end of the department but is available by phone.

Paramedic Briefing

You have arrived at resus with John Goode, a 48 year old patient. He is short of breath with difficulty breathing and wheezing.

You are worried about him but have so far only used nebulised salbutamol. He could hardly talk to you on the way in. His wife is following but at least 15 minutes away.

Please give a handover to the hospital clinical team.

Technical set-up

Setting	Emergency department resus bay		
Simulator	High fidelity manikin / actor		
Gender	Male	Age	48

Initial monitor parameters

RR	O2 sats	Pulse (HR)	BP	ECG rhythm
24	92% on air	130	120/60	Sinus tachycardia
Cap Refill Time	Blood glucose	Temp.		
2s	4.9	37.5		

Initial patient set-up

Airway	Obstruction	Airway adjunct
	No	No

Breathing	Chest sounds	O2 supply
	Wheezy	air

Circulation	Heart sounds	Cannula	BP cuff	Peripheries / pulses
	Normal	No	Present	Warm / present

Disability	Eyelids	Pupils	AVPU/GCS
	Open	Equal & reactive	A / 14

Exposure	Posture	Moulage	Bowel sounds
	Sitting up at 45 degrees	None	Normal

Specific equipment / prop requirements

- Manikin: On ED bed, IV Access
- Stocked airway trolley (Specifically: Airway adjuncts (OPA, NPA))
- O2 and selection of masks incl. NRB mask
- Nebulisers
- Peak expiratory flow rate meter
- Monitoring equipment (SpO2, ECG, BP cuff)
- Syringes, flushes, IV fluid and giving sets, IV cannula
- Blood bottles, culture bottles
- Sputum culture bottle
- Observation chart, medical note paper, drug chart
- Stocked crash trolley
- Mock-up anaesthetic equipment/drugs

Medications

- Simulated drugs (Salbutamol, Ipratropium, Steroids, Aminophylline, Magnesium Sulphate, Antibiotics as per local guidelines)

Facilitator Briefing

Intravenous hydrocortisone (200mg) as too SOB for prednisolone

Initiate iv antibiotics for community acquired LRTI

The doctor should consider iv magnesium sulphate and aminophylline. If this fails they need to escalate for further advice on ITU management.

After treatment the patient needs IV potassium and MADU if treated successfully with respiratory team review. May request ITU / Critical Care review as the patient was previously intubated.

Telephone advice

- 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.

How to run with candidates from only one discipline

- Initial paramedic briefing can be either read out or acted by the facilitator / sim tech (who then goes back into control room)
- Scenario can be run 'as is' with just doctors or nurses, if necessary

Patient Briefing

Setting Emergency department resus bay

Name John Goode

Age 48

Gender Male

What has happened to you?

You attended A&E with breathlessness, coughing green sputum and a low grade temperature. You have become progressively wheezy over last 48 hours. Today your breathing has been getting worse for the last 3 hours and you have used your entire remaining purple inhaler and run out of salbutamol nebulisers.

How you should role-play

You are initially very short of breath and can only speak in short sentences. You quickly deteriorate and manage to only speak single words at a time. If prompted by the faculty, you will become exhausted and drowsy.

Your background

PAST MEDICAL HISTORY

- Asthma - one previous admission needing intubation and admission to ITU

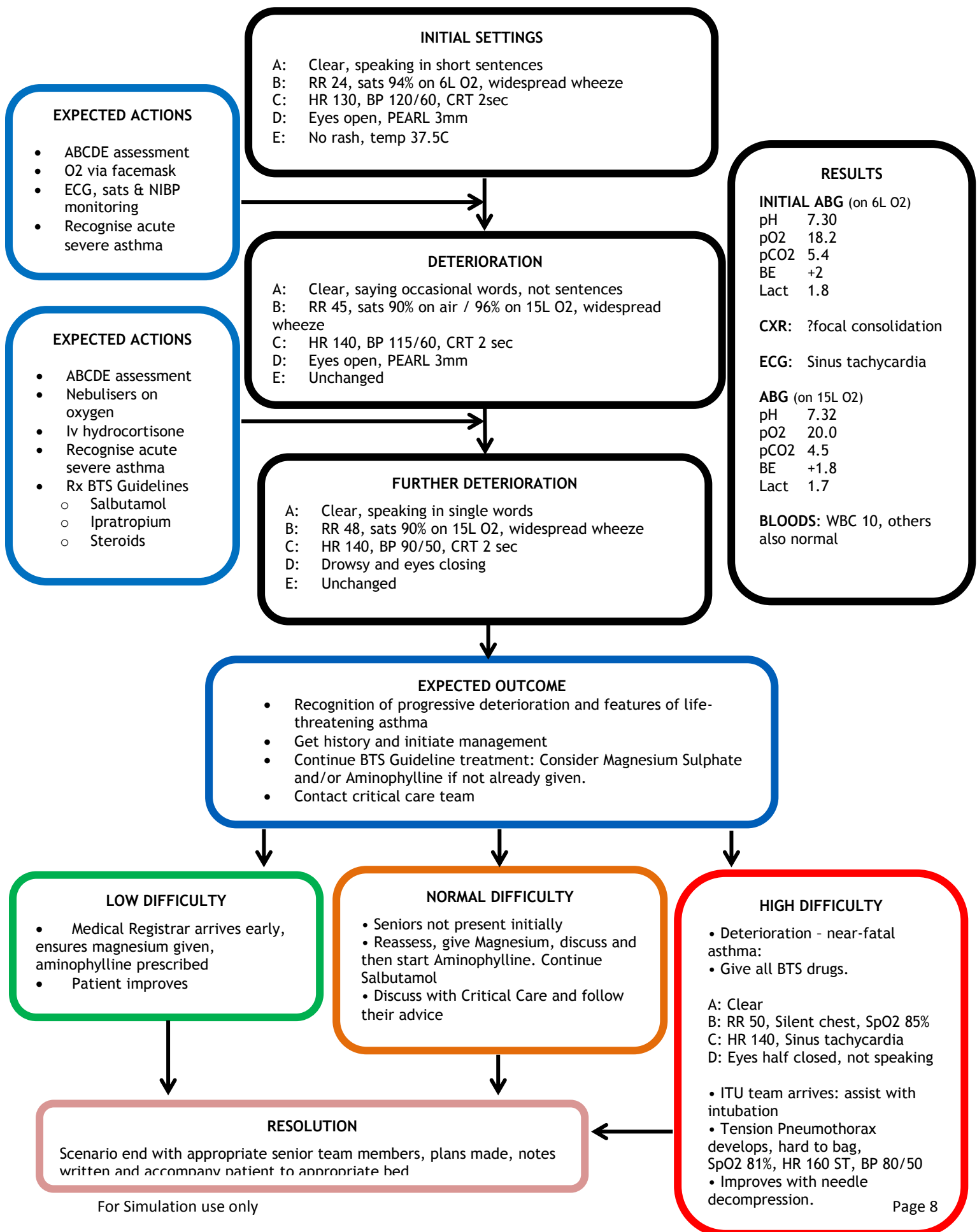
MEDICATION

- Regular Seretide and Spiriva, with breakthrough salbutamol nebs at home
- NKDA

SOCIAL HISTORY

- You work as a vet
- Quit smoking 2 weeks ago

Scenario flowchart



References

1. Asthma UK. <https://www.asthma.org.uk/advice/understanding-asthma/faqs/> (Accessed on 25/6/18)
2. British Guideline on the Management of Asthma, a National Clinical Guideline available at: <https://www.brit-thoracic.org.uk/document-library/clinical-information/asthma/btssign-asthma-guideline-2016/>
3. BTS quick reference guide available at: <https://www.brit-thoracic.org.uk/document-library/clinical-information/asthma/btssign-asthma-guideline-quick-reference-guide-2016/>

Clinical props

RADIOMETER ABL800 FLEX			
Identifications			
Patient ID	789987		
Patient Last Name	Goode		
Patient First Name	John		
Sex	Male		
Date of birth			
FO ₂ (I)			
T			
Sample type	Arterial		
Operator	TEMP FPH 1		
Blood Gas Values			
pH	7.32		[-]
pCO ₂	4.5	kPa	[4.30 - 6.00]
↑ pO ₂	20.0	kPa	[11.1 - 14.4]
Hct _c	49.6	%	
Oximetry Values			
ctHb	13.9	g/L	
FO ₂ Hb	97.3	%	[94.0 - 98.0]
sO ₂	99	%	
↑ FCOHb	1.8	%	[0.5 - 1.5]
FHHb	2.4	%	[0.0 - 5.0]
FMethHb	0.5	%	[0.0 - 1.5]
Calculated Values			
cBase(Ecf) _c	1.8	mmol/L	
cHCO ₃ ⁻ (P) _c	23	mmol/L	
Electrolyte Values			
cNa ⁺	137	mmol/L	[136 - 146]
↓ cK ⁺	3.1	mmol/L	[3.4 - 4.5]
cCl ⁻	101	mmol/L	[98 - 106]
cCa ²⁺	1.17	mmol/L	[1.15 - 1.29]
Anion Gap _c		mmol/L	
Metabolite Values			
↑ cGlu	10.2	mmol/L	[3.9 - 5.8]
↑ cLac	1.7	mmol/L	[0.5 - 1.6]
cCrea	78	μmol/L	[44 - 97]
Notes			
↑	Value(s) above reference range		
↓	Value(s) below reference range		
c	Calculated value(s)		

RADIOMETER ABL800 FLEX

Identifications

Patient ID 789987
 Patient Last Name Goode
 Patient First Name John
 Sex Male
 Date of birth
 FO₂(I) c
 T
 Sample type Arterial
 Operator TEMP FPH 1

Blood Gas Values

pH	7.30		[-]
pCO ₂	5.4	kPa	[4.30 - 6.00]
↑ pO ₂	18.2	kPa	[11.1 - 14.4]
Hct _c	50.2	%	

Oximetry Values

ctHb	14.2	g/L	
FO ₂ Hb	97.0	%	[94.0 - 98.0]
sO ₂	95	%	
↑ FCOHb	2.0	%	[0.5 - 1.5]
FHHb	2.3	%	[0.0 - 5.0]
FMetHb	0.6	%	[0.0 - 1.5]

Calculated Values

cBase(Ecf) _c	2.1	mmol/L
cHCO ₃ ⁻ (P) _c	22	mmol/L

Electrolyte Values

cNa ⁺	138	mmol/L	[136 - 146]
cK ⁺	3.6	mmol/L	[3.4 - 4.5]
cCl ⁻	102	mmol/L	[98 - 106]
cCa ²⁺	1.19	mmol/L	[1.15 - 1.29]
Anion Gap _c		mmol/L	

Metabolite Values

↑ cGlu	9.4	mmol/L	[3.9 - 5.8]
↑ cLac	1.8	mmol/L	[0.5 - 1.6]
cCrea	75	μmol/L	[44 - 97]

Notes

↑	Value(s) above reference range
↓	Value(s) below reference range
+	Value(s) below reference range
c	Calculated value(s)

NEWS - OBSERVATION CHART



Frimley Health
NHS Foundation Trust

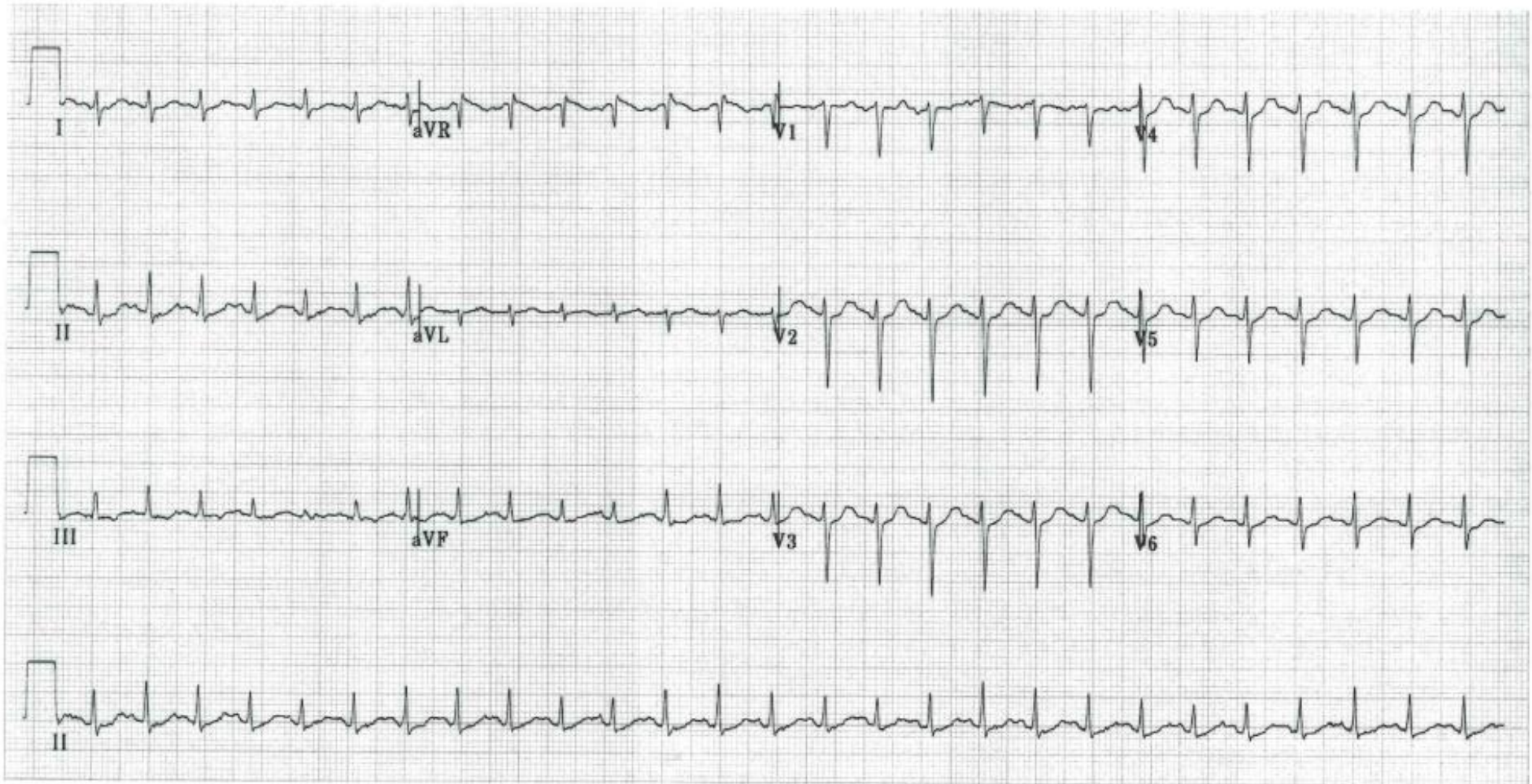
Surname: Goode First name: John
Hospital number: 12345 D.O.B: 1.1.1971 Date of admission: Today

	DATE									DATE
	TIME									TIME
A+B Respirations Breaths/min	≥25	24								≥25
	21-24									21-24
	18-20									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	8								O2 L/min
	Device	NB								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	120								121-140
	111-120	↑								111-120
	101-110	↑								101-110
	91-100	↑								91-100
	81-90	↑								81-90
	71-80	↑								71-80
	61-70	↓								61-70
	51-60	60								51-60
≤50									≤50	
C Pulse Beats/min	≥131	130								≥131
	121-130									121-130
	111-120									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 NEW onset of confusion (no score if chronic)	Alert	A								Alert
	Confusion									Confusion
	V									V
	P									P
E Temperature °C	≥39.1°									≥39.1°
	38.1-39.0°	37.5								38.1-39.0°
	37.1-38.0°									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		7								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: <i>MR</i> Sex: <i>M</i> DoB: [Redacted] Age: <i>43 Yrs</i> Surname: <i>GOODE</i> First name: <i>John</i> Address: [Redacted] Postcode: [Redacted] Tel (H): [Redacted] Tel (M): [Redacted] Employer / Educ. Est: <i>n/a</i> Religion: [Redacted] Language: [Redacted]		NOK: [Redacted] Address: [Redacted] Relationship: [Redacted] Tel (H): [Redacted] Tel (M): [Redacted]	
Source of Referral: <i>Ambulance</i> Date of Arrival: [Redacted] <i>18/01/15</i> Time of Arrival: [Redacted] Mode of arrival: <i>Ambulance</i> No of Attendances in past year: <i>3</i> Previous Attendance Number: <i>EU-12-051816-1</i> To be seen in: <i>Resus</i>		GP: [Redacted] Address: [Redacted] Tel No: [Redacted] Fax No: [Redacted]	
Speciality Expected: Specialty:	Time referred to speciality: Time seen:	Duty/On-Call Emergency Department Consultant:	
Presenting Complaint: <i>Asthma</i>			
Triage Nurse:		Time of Triage	
Presenting Complaint: <i>SOB x 48 hrs</i>		Triage (ESI) <i>2</i>	
History of Presenting Complaint: <i>Known asthma, major SOB</i>		Pain Score	
On Assessment: <i>Wheezy, no crackles, sent to</i>		Allergies <i>none</i>	
Previous Medical History: <i>Asthma, ITU x 1</i>		Tetanus Status	
Social History:		Triage Treatment	
		Triage Notes	
Temperature		Blood Pressure	Nurse Concern
Pulse		SP O ₂ (Air)	GCS
Respiratory rate		Pupils (Left)	Pupils (Right)
Peak Flow	(Pre/Post)	Blood sugar	Weight
MET SCORE =			



Name	Signature	Initials	Position	Speciality	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:

HISTORY: (Please continue on continuation sheets if necessary)

	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)	
<p>Women of Childbearing age? LMP: Pregnant? Y / N</p>		



Past Medical History

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

Allergies

Drug	Reaction	Date



Hosp No.: 789987

EXAMINATION

Jaundiced Anaemic Cyanosed Clubbed Lymphadenopathy

Temp Cap Blood Glucose.....

General Impression:

Cardiovascular

HR reg / irreg BP sitting

BP lying..... BP Standing (Remember >2 mins for Postural BPs)

HS..... Murmur? Y N Carotid Bruit? Y N

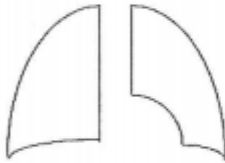
JVP Oedema

Respiratory

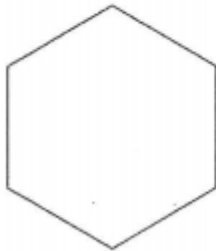
RR Sats on Air Sats on% O₂

Current PEFR..... Best PEFR Predicted PEFR

Percussion / Auscultation



Abdominal



Ascites? Y / N
PR
PV



Neurological

GCS: E V M /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 (c6,7,8)			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 Gait

Finger/Nose Dysdiadochokinesis

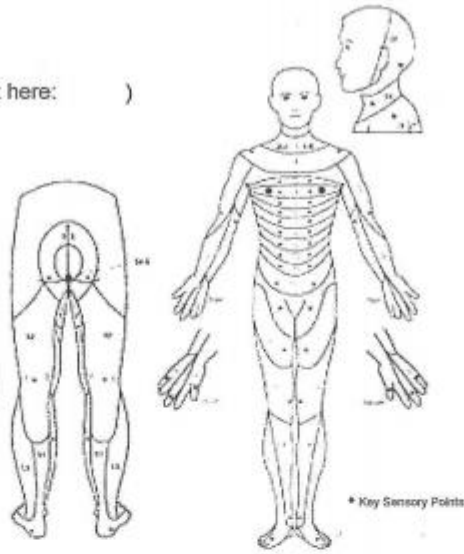
Heel/shin Dysarthria

Romberg's test

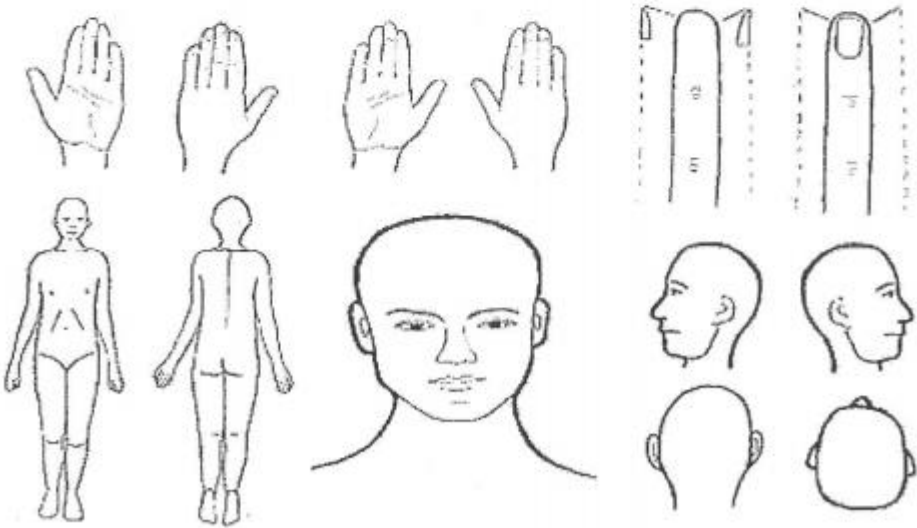


Sensation
(Not Assessed - tick here:)

Anal sensation? Y N



Other examination findings / comments:





Initial Impressions / Differential Diagnosis:

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:

	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: Designation:.....

Time Date Signature

Frimley Park Hospital

First Name(s): <u>John</u>	Ward	Date chart started	Chart number
Surname: <u>Goode</u>			of
Hospital Number: <u>789987</u>	Consultant	Doctor bleep number	Date of admission
NHS Number: _____			<u>TODAY</u>
Date of Birth: [REDACTED]			

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). This section must be completed before medication is given.

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

Reminder: Prescriptions must be rewritten not amended
Unclear prescriptions will be challenged

Communication for doctors. Messages must be actioned within 24 hours.

Date	Sign and Bleep No.	Actioned sign and date

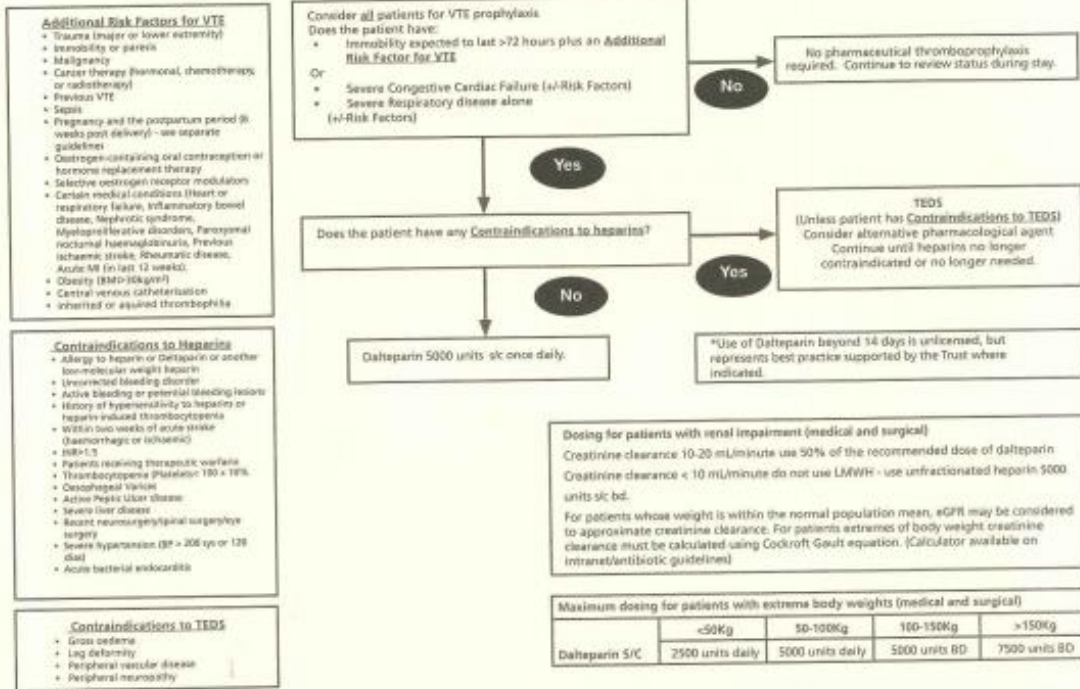
Smoking	Alcohol	Is patient self medicating: Yes / No Level 1 / 2 / 3
Is the patient a smoker Yes / No	Audit C score	
Is NRT currently in use Yes / No	Full Audit score (if undertaken)	
	Withdrawal medication required	

Date chart rewritten / / TTO written / /

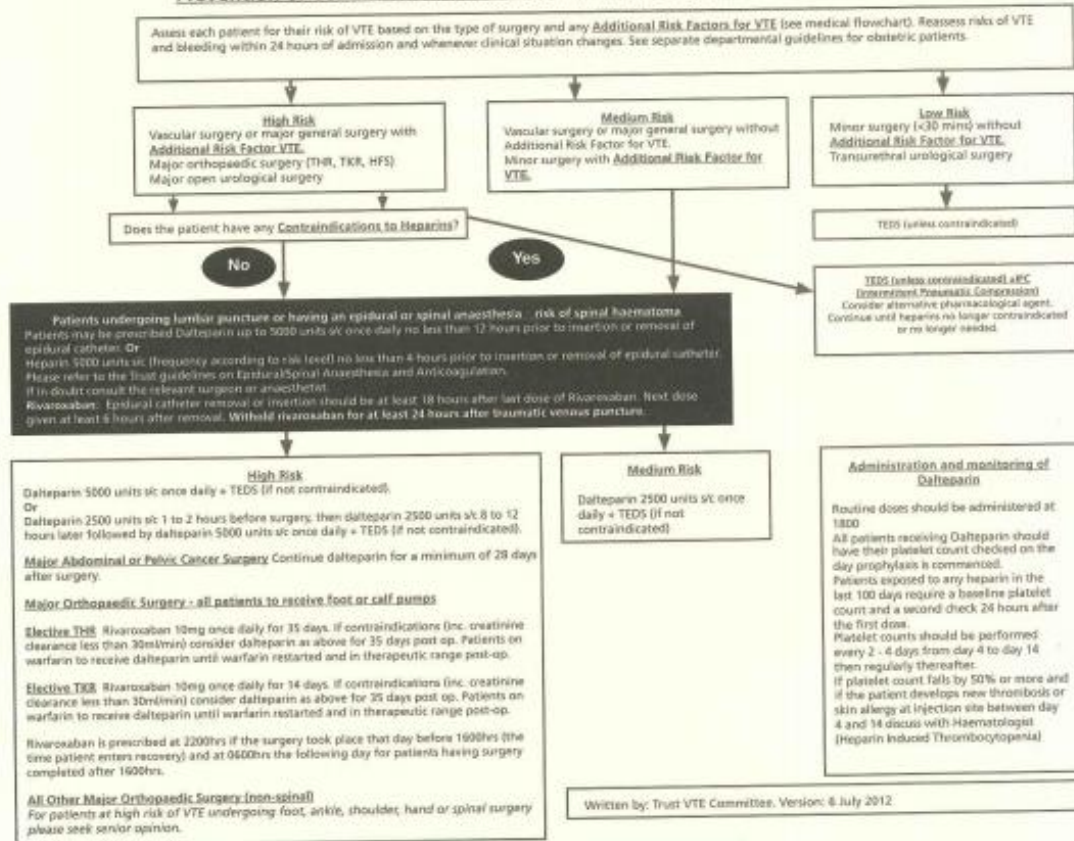
Needs: Large print PMR card

10-12-01 NHSBSA Product Code FPH3159 036538

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	Hip or Knee replacement Hip fracture Other major orthopaedic surgery Surgical procedure lasting >30mins with additional VTE risk factor(s)						
	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							
	Medium		Oestrogen containing oral contraception or HRT	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				
Selective oestrogen receptor modulators								
Age > 60								
Dehydration								
Varicose veins with phlebitis								
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 (NEEDS)

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	
1200	
1800	
2200	
Device	

PRESCRIBERS SIGNATURE _____ DATE _____
 Home Oxygen Indicated: YES / NO
 Referral to Respiratory Nurse for HODP Date: _____
 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

PHARMACOLOGICAL VTE PROPHYLAXIS/TREATMENT INCLUDING NOACS

PRESCRIBERS SIGNATURE _____ GMC No. _____ DOSE _____ ROUTE _____

START _____ REVIEW _____ STOP _____

INDICATION AND SPECIAL INSTRUCTIONS _____
 Please tick appropriate status
 NEW PRE AD CHANGE

PHARMACY
 POD H POD W _____
 TO CONTINUE ON YES
 DISCHARGE NO

MECHANICAL VTE PROPHYLAXIS

PRESCRIBERS SIGNATURE _____ GMC No. _____ DOSE _____ ROUTE _____

START _____ REVIEW _____ STOP _____

INDICATION AND SPECIAL INSTRUCTIONS _____
 Please tick appropriate status
 NEW PRE AD CHANGE

PHARMACY
 POD H POD W _____
 TO CONTINUE ON YES
 DISCHARGE NO

WARFARIN AND OTHER COUMARIN ANTICOAGULANTS

PRESCRIBERS SIGNATURE _____ GMC No. _____ DATE STARTED _____ DOSE (mg) _____

INDICATION _____ DURATION _____ TARGET INR _____ PLEASE TICK APPROPRIATE STATUS
 NEW PREADMISSION

PHARMACY
 BOOK PROVIDED ON: _____ DATE COUNSELLED: _____
 BY: _____ BY: _____
 TO CONTINUE ON YES
 DISCHARGE NO

PRESCRIBERS SIGNATURE _____ GIVEN BY _____

DRUG (Approved Name) _____ DOSE _____ ROUTE _____

PRESCRIBERS SIGNATURE _____ GMC No. _____ START _____ REVIEW _____ STOP _____

INDICATION AND SPECIAL INSTRUCTIONS _____
 Please tick appropriate status
 NEW PRE AD CHANGE

PHARMACY
 POD H POD W _____
 TO CONTINUE ON YES
 DISCHARGE NO

DRUG (Approved Name) _____ DOSE _____ ROUTE _____

PRESCRIBERS SIGNATURE _____ GMC No. _____ START _____ REVIEW _____ STOP _____

INDICATION AND SPECIAL INSTRUCTIONS _____
 Please tick appropriate status
 NEW PRE AD CHANGE

PHARMACY
 POD H POD W _____
 TO CONTINUE ON YES
 DISCHARGE NO

DRUG (Approved Name) _____ DOSE _____ ROUTE _____

PRESCRIBERS SIGNATURE _____ GMC No. _____ START _____ REVIEW _____ STOP _____

INDICATION AND SPECIAL INSTRUCTIONS _____
 Please tick appropriate status
 NEW PRE AD CHANGE

PHARMACY
 POD H POD W _____
 TO CONTINUE ON YES
 DISCHARGE NO

DRUG (Approved Name) _____ DOSE _____ ROUTE _____

PRESCRIBERS SIGNATURE _____ GMC No. _____ START _____ REVIEW _____ STOP _____

INDICATION AND SPECIAL INSTRUCTIONS _____
 Please tick appropriate status
 NEW PRE AD CHANGE

PHARMACY
 POD H POD W _____
 TO CONTINUE ON YES
 DISCHARGE NO

WHEN REQUIRED MEDICATION

DRUG (Approved name)			Date																
DOSE	ROUTE	FREQUENCY	Time																
PRESCRIBER'S SIGNATURE		GMC No.	DATE	Dose															
INDICATION AND SPECIAL INSTRUCTIONS		<input type="checkbox"/> NEW <input type="checkbox"/> PRE AD		Route															
PHARMACY POD H POD W		TO CONTINUE ON DISCHARGE <input type="checkbox"/> YES <input type="checkbox"/> NO		Given by															
DRUG (Approved name)			Date																
DOSE	ROUTE	FREQUENCY	Time																
PRESCRIBER'S SIGNATURE		GMC No.	DATE	Dose															
INDICATION AND SPECIAL INSTRUCTIONS		<input type="checkbox"/> NEW <input type="checkbox"/> PRE AD		Route															
PHARMACY POD H POD W		TO CONTINUE ON DISCHARGE <input type="checkbox"/> YES <input type="checkbox"/> NO		Given by															
DRUG (Approved name)			Date																
DOSE	ROUTE	FREQUENCY	Time																
PRESCRIBER'S SIGNATURE		GMC No.	DATE	Dose															
INDICATION AND SPECIAL INSTRUCTIONS		<input type="checkbox"/> NEW <input type="checkbox"/> PRE AD		Route															
PHARMACY POD H POD W		TO CONTINUE ON DISCHARGE <input type="checkbox"/> YES <input type="checkbox"/> NO		Given by															
DRUG (Approved name)			Date																
DOSE	ROUTE	FREQUENCY	Time																
PRESCRIBER'S SIGNATURE		GMC No.	DATE	Dose															
INDICATION AND SPECIAL INSTRUCTIONS		<input type="checkbox"/> NEW <input type="checkbox"/> PRE AD		Route															
PHARMACY POD H POD W		TO CONTINUE ON DISCHARGE <input type="checkbox"/> YES <input type="checkbox"/> NO		Given by															
DRUG (Approved name)			Date																
DOSE	ROUTE	FREQUENCY	Time																
PRESCRIBER'S SIGNATURE		GMC No.	DATE	Dose															
INDICATION AND SPECIAL INSTRUCTIONS		<input type="checkbox"/> NEW <input type="checkbox"/> PRE AD		Route															
PHARMACY POD H POD W		TO CONTINUE ON DISCHARGE <input type="checkbox"/> YES <input type="checkbox"/> NO		Given by															

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

MONTH/YEAR →
DATE

Insulins - variable dosing

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

WHEN REQUIRED INSULINS

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

GLU	mg	Units	mg	Units	mg	Units	mg	Units	mg	Units	mg	Units	mg	Units	mg	Units	mg	Units

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)
PRESCRIBERS SIGNATURE GMC No.	DATE

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

BLOOD GLUCOSE RESULT	INSULIN DOSE TO BE GIVEN (UNITS/HOUR)
PRESCRIBERS 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
REVIEWED BY =>		STOP	
PHARMACY			
POD H POD W			

DATE --									
I 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
REVIEWED BY =>		STOP	
PHARMACY			
POD H POD W			

DATE --									
I 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
REVIEWED BY =>		STOP	
PHARMACY			
POD H POD W			

DATE --									
I 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
REVIEWED BY =>		STOP	
PHARMACY			
POD H POD W			

DATE --									
I 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
REVIEWED BY =>		STOP	
PHARMACY			
POD H POD W			

DATE --									
I 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
REVIEWED BY =>		STOP	
PHARMACY			
POD H POD W			

DATE --									
I 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		Signature GMC No.	Start time/stop time	Given by/ checked by	Pharm.
						Rate	Duration of infusion				