

Common Junior Doctor On-call Bleeps

Table 1: Things to <u>consider</u> doing for unwell patients you are bleeped about when on-call (before you escalate to a senior if required)								
	Fall	Tachycardia	Hypotension	Temperature spike	Low urine output	Chest pain	Shortness of breath	Confusion / ↓GCS
Common causes	<ol style="list-style-type: none"> Mechanical Dehydration Postural hypotension Confusion (electrolyte abnormality/ dementia/ sepsis) Arrhythmia Aortic stenosis 	<ol style="list-style-type: none"> Dehydration/ hypotension Sepsis Arrhythmia e.g. AF PE Acute pain 	<ol style="list-style-type: none"> Fluid/blood loss Sepsis Cardiogenic shock Anaphylaxis 	<ol style="list-style-type: none"> Infections (e.g. chest, UTI) SIRS (sepsis most common cause) Post-op Surgical collections <2d = atelectasis 2-4d = pneumonia 4-6d = anastomotic leak 6-8d = wound infection 8-10d = DVT/PE 	<ol style="list-style-type: none"> Hypovolaemia Blocked catheter Acute kidney injury -Pre: hypotension -Renal: acute tubular necrosis, nephrotoxic medications, GN -Post: urinary obstruction/ retention 	<ol style="list-style-type: none"> Musculoskeletal Arrhythmia PE MI/angina Oesophagitis/ oesophageal spasm 	<ol style="list-style-type: none"> Anxiety COPD/asthma PE Pneumonia Pneumothorax Atelectasis Arrhythmia Cardiac failure/ overload Hypoglycaemia 	<ol style="list-style-type: none"> Dementia Delirium Drugs (e.g. opiates) Sepsis Electrolyte abnormality Neurological pathology (e.g. cerebral haemorrhage) Respiratory acidosis if CO₂ retainer Hypoglycaemia
Complications	<ul style="list-style-type: none"> Mechanical injury Cerebral bleed 	<ul style="list-style-type: none"> Reduced myocardial function Arrhythmia 	<ul style="list-style-type: none"> Acute kidney injury Reduced GCS End organ failure 	<ul style="list-style-type: none"> Fluid loss Overwhelming sepsis 	<ul style="list-style-type: none"> Acute tubular necrosis/ acute kidney injury 	-	<ul style="list-style-type: none"> Cerebral hypoxia 	<ul style="list-style-type: none"> Falls Reducing GCS Airway compromise Progressive disease
During call	<ul style="list-style-type: none"> Witnessed? Head injury? Background Observations and GCS On anticoagulation? 	<ul style="list-style-type: none"> Background Observations 	<ul style="list-style-type: none"> Background Observations Fluid balance 	<ul style="list-style-type: none"> Background Observations 	<ul style="list-style-type: none"> Background Observations Fluid balance Bladder scan (if done) 	<ul style="list-style-type: none"> Background Observations 	<ul style="list-style-type: none"> Background Observations 	<ul style="list-style-type: none"> Background Pre-morbid state Observations Drugs given
Before arrival (if possible)	<ul style="list-style-type: none"> ECG Postural BP 	<ul style="list-style-type: none"> ECG 	<ul style="list-style-type: none"> Fluid challenge (if no Hx of heart failure) 	<ul style="list-style-type: none"> Bloods Urine dip 	<ul style="list-style-type: none"> Flush/change catheter Bladder scan 	<ul style="list-style-type: none"> ECG BP in both arms 	<ul style="list-style-type: none"> Oxygen ECG 	<ul style="list-style-type: none"> Capillary glucose
Background	Read patient notes + latest investigation results							
History	<ul style="list-style-type: none"> Usual falls history NS, CVS, RS systems reviews Headache/vomiting/injury 			<ul style="list-style-type: none"> Determine any symptoms Full systems review 		<ul style="list-style-type: none"> SOCRATES RS & CVS system review Risk factors 	<ul style="list-style-type: none"> Determine any symptoms RS & CVS system review 	<ul style="list-style-type: none"> Determine any symptoms Full systems review Collateral history Drug chart (?opiates)
Examination	<ul style="list-style-type: none"> Observations & postural BP GCS & pupils reactivity to light Neurological exam Look for injuries Skin: bruising/bleeding Bone tenderness/shape (inc skull) & flex/rotate hips (fractures) 	<ul style="list-style-type: none"> Observations Assess fluid balance Look for infection sources Multi-system exam Calves (DVT) 	<ul style="list-style-type: none"> Observations + GCS Assess fluid balance and urine output Hydration status exam (inc pul/pedal oedema) Look for infection sources: multi-system exam + look at surgical wounds, drains, chest 	<ul style="list-style-type: none"> Observations Sepsis signs (cap refill, skin temp, pulse etc) Look for infection sources: multi-system exam, iatrogenic causes (surgical wounds, drains, lines), exposure (look at skin, joints, peri-anal area) 	<ul style="list-style-type: none"> Observations Assess fluid balance Multi-system exam Hydration status exam (esp pulmonary/peripheral oedema) Examine/flush catheter 	<ul style="list-style-type: none"> Observations BP in both arms Cardiorespiratory exam Examine calves 	<ul style="list-style-type: none"> Observations Cardiorespiratory exam Examine calves 	<ul style="list-style-type: none"> Observations & cap glucose GCS & pupils & orientation Neurological exam Sepsis signs (cap refill, skin temp, pulse etc) Look for infection sources: multi-system exam + look at surgical wounds, drains, chest, etc
Investigations	<ul style="list-style-type: none"> ECG CT head if hit head and: on anticoagulation, 2 or more vomits, focal neurology, suspected skull fracture, GCS decreased by 1 or more, post-traumatic seizure Sepsis Ix if differential (see temperature spike) X-ray any possible fracture 	<ul style="list-style-type: none"> ECG U&Es + VBG Sepsis Ix if differential (see temperature spike) 	<ul style="list-style-type: none"> Image possible sources of fluid loss CXR if pulmonary oedema Sepsis Ix if differential (see temperature spike) VBG (lactate) <p><i>Assess end organ perfusion – urine output, lactate, GCS</i></p>	<p>Full septic screen:</p> <ul style="list-style-type: none"> B: bloods (WCC, Hb, plt (DIC)), blood cultures, VBG (lactate) O: urine dip, culture any other fluids X: CXR, CT abdo if may have surgical collection E: - S: - 	<ul style="list-style-type: none"> B: U&Es + VBG (acidosis/low bicarb/hyperkalaemia) O: urine dip X: bladder scan (to determine if it's urinary retention i.e. >500ml or true low UO), consider renal USS E: - S: - 	<ul style="list-style-type: none"> B: bloods, D-dimer if low wells score, cardiac enzymes (now and at 12 hours) if cardiac O: - X: CXR E: ECG S: - 	<ul style="list-style-type: none"> B: bloods, D-dimer if low wells score, cardiac enzymes, ABG if low sats O: sputum culture X: CXR E: ECG S: - 	<ul style="list-style-type: none"> Bloods (inc calcium) + VBG (lactate) ABG if could be CO₂ retaining Urine dip Sepsis Ix if differential (see temperature spike) CT head if neurological pathology or excluded all other causes
ABCDE management	See OSCEstop ABCDE notes							
Specific management	<ul style="list-style-type: none"> Treat cause Treat injuries Neurological observations as per protocol if hit head or unwitnessed 	<ul style="list-style-type: none"> Treat cause Analgesia Correct electrolytes Empirical antibiotics if required Fluids If AF, consider rate limiting medication If arrhythmia with SBP<90, get help 	<ul style="list-style-type: none"> Fluid challenges Monitor urine output Treat cause May need inotropic support in ITU if in shock (hypotension unresponsive to fluid resuscitation) 	<ul style="list-style-type: none"> Treat cause e.g. targeted Abx Oxygen/saline nebs/ salbutamol nebs/physio if chest If septic: <ul style="list-style-type: none"> Sepsis six Surgery may be needed (joint/ abdo/ necrosis sepsis) 	<ul style="list-style-type: none"> Fluid bolus and reassess (repeat bladder scan if no ↑UO) Stop renal excreted drugs Catheterise (relieve retention /accurately monitor fluid balance) or flush catheter Treat cause e.g. fluids for pre-renal, relieve obstruction for post-renal 	<ul style="list-style-type: none"> Treatment-dose clexane if PE likely MONAC + Cardiology referral if MI Analgesia Oxygen 	<ul style="list-style-type: none"> Treat cause Sit up Oxygen/saline nebs/ salbutamol nebs/ chest physio Treatment-dose clexane if PE likely 	<ul style="list-style-type: none"> Treat cause (e.g. antibiotics if infection) Airway placement if GCS <8 Suspend/reverse any causative drugs e.g. opiates

Other common bleeps include: Assess critically unwell patients (see OSCEstop [ABCDE](#) notes); Review blood results or chest x-rays (see OSCEstop [interpretation](#) notes); Clerking a new admission (see OSCEstop [admission clerking](#) notes); Clerk a patient for operation the following day (see OSCEstop [pre-op assessment](#) notes); Post-operative complications (see OSCEstop [post-op complications](#) notes); Fluid prescriptions (see OSCEstop [fluids](#) notes); Narrow therapeutic range drug prescriptions (see OSCEstop [monitoring narrow therapeutic range drugs](#) notes)