



Surgical Workbook

Self-directed learning package

To be read in conjunction with: HMO/Intern position description Surgical Unit orientation information

NAME:			

Author: Dr Benjamin Scott

July 2016

Self-directed workbook - Surgery

This self-directed workbook is a guide for you to assess your knowledge and identify your learning needs by completing the workbook.

It is not mandatory, but we would like to continue to use it as it assists with performance appraisals (which is essentially performance coaching), and to provide some more structure and real learning outcomes.

The following diagram highlights the key objectives, with our aim to see more of "does" and "shows how"



BHS Surgical Expected Learning Outcomes

- 1. To be able to manage patients with surgical presentations on the ward and referred by the Emergency Department.
- 2. Understand the management requirements for post-operative patients.

Education

The education series covers the following topics:

- 1. Abdominal Pain
- 2. Pyrexia Post op
- 3. Appendicitis
- 4. Ischaemia
- 5. Anticoagulation
- 6. Hypotension
- 7. Diabetes
- 8. Bowel Obstruction
- 9. Hypovolaemia

The learning resources in this self-directed workbook cover these topics. The learner should complete the self-directed workbook to enhance their own understanding of their learning needs. Every section does not need to be completed. Use it to reinforce areas where your knowledge is strong, or to identify areas that need some work. In many cases this will mean on the job learning, rather than finding information in books.

We suggest that completing this workbook in preparation your surgical term is strongly advised.

Formal educational activities occur throughout the week (Surgical terms)

It is not possible for doctors to attend all sessions due to shift work, duration of rotations and leave etc. therefore we endeavor to publish for each topic the PowerPoint presentations and associated

resources for people to read on the BHS education resource website: http://educationresource.bhs.org.au/home

Case 1:

You have been asked to review Mrs. Robertson in the emergency department, a 38 year old female, who has presented with upper abdominal pain over the last 24 hours. She explains that it began in the epigastric region but moved to the right upper side about 8 hours ago. The pain is constant, 8/10 with no radiation.

1. What is your differential diagnosis for this patient (list 3)

2. What specific examination findings will you look for?

From the end of the bed, Mrs. Robertson is obviously in pain and looks uncomfortable. She is not jaundiced.

Blood pressure: 135/80

Heart Rate: 95

Respiratory Rate: 16 Temperature: 38.1

You examine her abdomen and find that she is tender in the RUQ and is "murphy's sign positive".

- 3. What is murphy's sign and why does it cause pain?
- 4. What bedside tests or investigations will you order and why?

The following tests results are available:

Full Blood Examination

Haemoglobin	12.8 g/dL (11.5-16.5)	White Cell Count	14.1 x10*9/L (4.0-11.0)
Haematocrit	35.6 % (37.0-47.0)	Neutrophils	11.4 x10*9/L (2.0-8.0)
Red Cell Count	4.05 x10*12/L (3.80-5.80)	Lymphocytes	1.4 x10*9/L (1.0-4.0)
MCV	88 fL (80-96)	Monocytes	1.3 x10*9/L (< 1.0)
MCH	31.6 pg (27.0-32.0)	Basophils	0.0 x10*9/L (< 0.2)
MCHC	36.0 g/dL (32.0-36.0)	Eosinophil Count	0.0 x10*9/L (< 0.5)

Platelet Count 159 x10*9/L (150-450)

Pancreatic Studies-Serum	General Biochen	nistry
	Sodium	140 mmol/L (136-146)
Lipase <^10 U/L (0-60)	Potassium	3.4 mmol/L (3.5-5.0)
	Chloride	106 mmol/L (95-110)
	Bicarbonate	22 mmol/L (22-31)
	Urea	2.7 mmol/L (2.3-7.6)
	eGFR	>^90 mL/min/1.73m2 (> 60)

Creatinine 52 umol/L (40-80)

5. What imaging will you request?

Sarry Rath South	Ballarat Health Servi Radiology Depart		Ph: (03) 5320 4270 Fax: (03) 5320 4830 P.O. Box 577 Ballarat 3350
Patient Details	Hospital ID Label here	Ward or O	.P. Department
Name:			
D.o.B.: URN:		Appt Ti	me and Date
Referrer Details	(Please print clearly)	Courtesy C	opy Dr. Details
Name:			
	Date:		
Patient Transpor	t Special Needs Infectious/Cognitive Impaired Details: Renal Failure (See over) Creatinine/eGFR: Contrast Allergies: Pregnant Yes/No		Classification (Office Use only) Private Bulk Bill T.A.C. Workers Comp
Clinical History			
Provisional Diag	nosis	Urgent	(Please supply contact details)
Examination Red Ultrasound X-Ray CT	uested Area to be Ex	camined	,
Angiography Fluoroscopy/Cont	rast Studies		

Radiology Report

ULTRASOUND ABDOMEN

Indication

? cholecystitis with elevated white cell count and right hypochondrium tenderness.

Report

The gallbladder wall is thickened, measuring 9mm with mobile sludge and a 25mm immobile gallstone in the gallbladder neck. The CBD measures 6mm on these limited views with no definite choledocholithiasis. Proximally there is no intrahepatic duct dilatation or discrete liver lesion. The portal vein measures 11mm with normal hepatopetal flow.

The pancreas is heterogeneous with the spleen being normal, 75mm long.

Both kidneys demonstrate normal corticomedullary differentiation, both kidneys measuring 99mm with no hydronephrosis or renal calculi.

Impression

Thickened gallbladder wall with multiple sludge and large gallstone is suggestive of cholecystitis. The patient however was not significantly tender on probe palpation, possibly as a result of analgesia. No intra or extrahepatic duct dilatation.

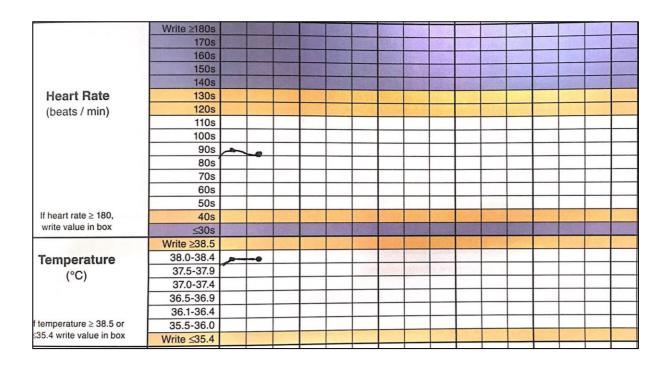
- 6. Working with the diagnosis of cholecystitis, what will be your management for this patient (consider that the patient is in the emergency department currently, and the logistics that will be involved).
 - a) Immediate management in ED

b) Definitive Management

7.	What	are the common organisms that cause cholecystitis?
8.	Mrs. R surgeo	obertson is now ready for theatre. What approaches can be employed by the on?
9.	needs	obertson has returned to the ward and her post-operative management to be commenced. Do we need to continue antibiotics?
	b.	A nurse asks you if the patient can eat and drink?
	c.	Is that patient at risk of a deep venous thrombosis (DVT)? How can these be prevented?
	d.	What analgesia will you provide?
	e.	What are the complications to look out for?
	f.	When will you follow up this patient after discharge?
	g.	Mrs Robertson works in a job that involves daily lifting of 15kg boxes. What advice will you give her regarding return to work.

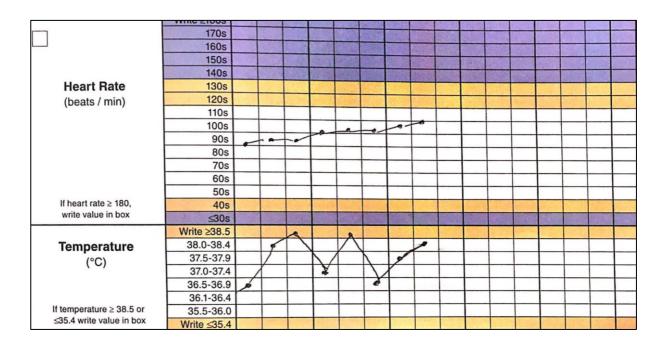
Case 2

You are on the ward round and approach Mr. Thompson in bed 22a. He states that he is feeling "a little bit off." You review the observation chart.



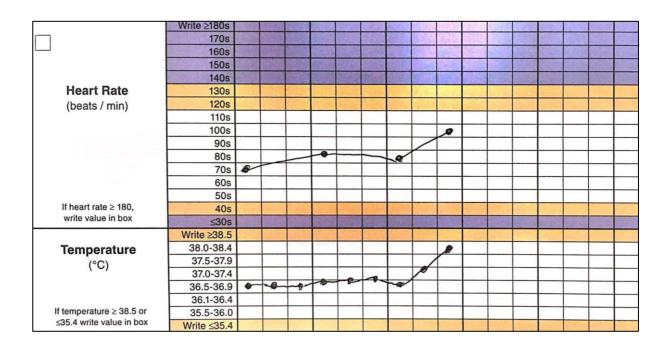
- 1. What are some potential origins for this temperature? Which is the most likely?
- 2. Currently the patient is looking well. You know that atelectasis commonly occurs during this time. Are there any preventative measures you can take for this?

You move to 22b and Mrs. Fung is looking unwell. She had abdominal surgery 8 days ago and as she lives alone in an isolated area, the team has decided to keep an eye on her until she improves. You review her observation chart.



- 3. What is the likely cause of this pattern of fever in a postoperative patient?
- 4. You examine the patient's abdomen and there is generalised tenderness. What actions will you take?

You move to 23a and Mr Gray is day 5 post hernia repair. He explains that the wound site feels sore.



- 5. What is the most likely cause of the fever in this case? What other pathologies can cause a fever during this time?
- 6. You take down the dressing (there is no excuse for not looking) and find a hot, erythematous (red) wound that has purulent discharge. What actions will you take?

Ca	SA	2
	~	-

You have been asked to review Miss Stevenson, an 18 year old female has presented to the ED with abdominal pain.

1. What are the questions you will ask about abdominal pain?

After a focused history you discover that the pain is in the right iliac fossa. The pain started 6 hours ago and was initially in the peri-umbilical area. Prior to this she has been experiencing nausea and anorexia for approximately 16 hours. The pain is exacerbated by coughing and was increased when driving over bumps on the car ride to the emergency department.

2. Based on the history, what is your differential diagnosis for this patient?

3. What specific signs will you be looking for on examination?

Examination findings

Blood Pressure: 130/80 Heart Rate: 88 Respiratory Rate: 16 Temp: 38.1

From the end of the bed the patient appears uncomfortable. The peripheries are cool and the oral mucous membranes are dry.

You find that the patient is tender at McBurney's point. Rebound tenderness is present. When palpating the left side of the abdomen, pain is experienced on the right side. Bowel sounds are present. You lay the patient on their left side and extend the right hip, which exacerbates the pain.

- 4. Where is McBurney's point?
- 5. What is Rosving's sign?
- 6. How do you elicit rebound tenderness?
- 7. What is the psoas sign?
- 8. What is your initial management for this patient?

(Hint: consider analgesia, hydration, anti-infective and communication with appropriate staff)

9. What blood tests will you order? Consider those that will also help to exclude other significant pathology.

PATH	evitch o L o G Y ervices Pty Ltd, ABN 84	Request I		18	gional Centre Location Banksia Street Heidel 9244 0444 www.do	berg Victoria 3084	The Reyal College of Accreditation Num Accreditation Num Accreditation To con and ISO 15189	CPA Path & spiror of Australians ther 2204 ripliance with NPAAC s
PATIENT SURNA	AME	GIVEN N	AMES		REQUESTING PRACTITIO	NER Surname & Initials, Ad	dress, Tel No	., & Provider
					DR			
D.O.B.	SEX	UR No.	ACC To		PROV			
, ,	M/F				EMPLOYEE NO: [
ADDRESS			POSTCODE	☐ PRIVATE	MANDATORY COPY TO		ᆚᆜ	
PATIENTS PHON	NE	MEDICARE/REPAT No.		☐ PENSIONER ☐ REPAT		TH SERVICES HOSPITAL		
SPECIMEN COLLECTED DATE / TIME	DRUG - LAST DOSE DATE /	PERSON DRAWING BLOOD I certify that the blood above and I established the identity of this patient blood being drawn I labelled the specimen(s). This Surname (print).	by direct inquiry and, signature also acknowledge	or by inspection of wrist wledges the collection of	at band, and immediately upon the of all other specimens.	Location C V N	H PR PA L PU	QU Fee
CLINICAL NOTE	(Inc. medication)	Fasting	TESTS REQUES	LIBGE			BY	Н
Gynae Cyto.		T Deep Deep L			DOCTOR MUST			
PATIENT STATUS AT THE 1	TIME OF THE SERVICE OR WHE	RT Preg. Due/ Post Pa			DOCTOR MUST	SIGN FORM		EQUEST DA
(b) A PRIVATE PATIENT IN	A RECOGNISED HOSPITAL OR A RECOGNISED HOSPITAL OR,	PROVED DAY HOSPITAL FACILITY OR, YES 1	NO to sign		GAL REQUIREMENT THAT ALL PATHOLOGY RE	COUESTS BE SIGNED BY THE REQUESTING (EQUEST DA

The Pathology results are available for the following blood tests

Full Blood Examination

Haemoglobin	138 g/L (115-165)	White Cell Count	10.3 x10*9/L (4.0-11.0)
Haematocrit	0.40 L/L (0.37-0.47)	Neutrophils	8.8 x10*9/L (2.0-8.0)
Red Cell Count	4.70 x10*12/L (3.80-5.80)	Lymphocytes	1.0 x10*9/L (1.0-4.0)
MCV	85 fL (80-96)	Monocytes	0.5 x10*9/L (< 1.0)
MCH	29 pg (27-32)	Basophils	0.0 x10*9/L (< 0.2)
MCHC	346 g/L (320-380)	Eosinophil Count	0.0 x10*9/L (< 0.5)

Platelet Count 199 x10*9/L (150-450)

Pancreatic Studies-Serum

Lipase <^10 U/L (0-60)

-END OF RESULT-

C-Reactive Protein

SERUM C-REACTIVE PROTEIN (CRP)

Ref Range

Date Lab. No. CRP (0-10) 10/02/15 41149484 < 1

01/07/16 46647243 < 1 mg/L

% <^1 mg/L (< 10)

General Biochemistry

 Sodium
 134 mmol/L (136-148)

 Potassium
 3.7 mmol/L (3.5-5.0)

 Chloride
 97 mmol/L (95-110)

 Bicarbonate
 26 mmol/L (22-31)

 Urea
 5.4 mmol/L (2.3-7.6)

 eGFR
 >^90 mL/min/1.73m2 (> 60)

 Creatinine
 54 umol/L (40-80)

 Calcium
 2.48 mmol/L (2.15-2.65)

 Calcium (Alb adjusted)
 2.31 mmol/L (2.15-2.65)

 Serum Magnesium
 0.74 mmol/L (0.60-1.10)

 Inorganic Phosphate
 1.1 mmol/L (0.8-1.4)

 Total Bilirubin
 13 umol/L (< 15)</td>

Alanine Aminotransferase 17 U/L (< 30)
Aspartate Aminotransferase 21 U/L (< 30)
Alkaline Phosphatase 55 U/L (20-105)
GGTP 13 U/L (< 30)
Total Protein 77 g/L (65-85)
Albumin 48 g/L (38-50)
Globulin 29 g/L (22-39)

HCG (Serum)

QUANTITATIVE HUMAN CHORIONIC GONADOTROPHIN (4th IS)

Serum HCG: < 2 IU/L (Ref.Range <5)

POST LMP RANGE 5 - 50 50 - 500 < 3 weeks 3 - 4 weeks 100 - 5000 4 - 5 weeks 5 - 6 weeks 500 - 10000 1000 - 50000 6 - 7 weeks 10000 - 100000 7 - 8 weeks 8 - 10 weeks 15000 - 200000 10 - 14 weeks 10000 - 100000

Method: Beckman Coulter Dxl

Note: The same immunoassay should be used if the patient is being monitored with serial HCG measurements.

10.	Your next task is to contact the surgical registrar. Fill out the different sections of the ISBAR handover tool to cover what you will say in the conversation. ISBAR: Introduction, Situation, Background, Assessment, Recommendation/Request
	Introduction:
	Situation:
	Background:
	Assessment:
	Recommendation / Request:
11.	Your surgical registrar explains that he is suspecting appendicitis. Is there any other imaging you should consider? What is the definitive management for acute appendicitis?
The	e patient has been returned to the ward.
12.	How will you manage this patient's pain?
13.	Can she eat and drink?

- 14. Does she need prevention for venous thromboembolism?
- 15. What follow up will she need?
- 16. Do antibiotics need to be continued?

A few days later the histopathology is returned.

HISTOPATHOLOGY REPORT

CLINICAL NOTES:

Lap appendix.

SPECIMEN:

Appendix: An appendix, 71x7x6mm (L x W x mesoappendix), with tan to grey congested surface. The wall is up to 1.5mm. Luminal contents are pale tan to brown. Part processed in one block with 1x LS of tip and 2x TS of body. (EP/ja/SB)

MICROSCOPY:

The appendiceal mucosa is extensively ulcerated with neutrophilic inflammation traversing the full thickness of the appendiceal wall in areas extending to the surface where there is acute serositis. In portions of the wall, it is necrotic, completely replaced by neutrophilic inflammation. Acute inflammation also extends into the mesoappendix, where there is intramesoappendiceal abscess formation. At the tip the suppuration extends through a defect in the muscularis propria, which is not an area of perforation, but rather a point where vasculature perforates the muscularis, creating a discontiguity in the muscle layer. At this point at the tip there is a small periappendiceal abscess, 7mm in size. There is no tumour, hyperplasia, dysplasia or malignancy.

CONCLUSION:

Appendix: Acute appendicitis with periappendiceal abscess at the tip.

Note: It is an important lesson in this case that a patient may have appendicitis even in the absence of significantly abnormal blood tests (such as white cell count and CRP) and these should not be relied upon to confirm or refute the diagnosis of appendicitis.

Case 4

One of the local general practitioners has sent 55 year old, Mr. Johnson directly from their clinic to the emergency department. The letter from the GP reads "acutely painful right lower limb, history of atrial fibrillation? limb ischaemia".

The emergency department staff have contacted your registrar and asked you to see the patient.

1. What is critical limb ischaemia? What are the potential aetiologies of this condition?

2. What symptoms and risk factors will you specifically ask the patient about?

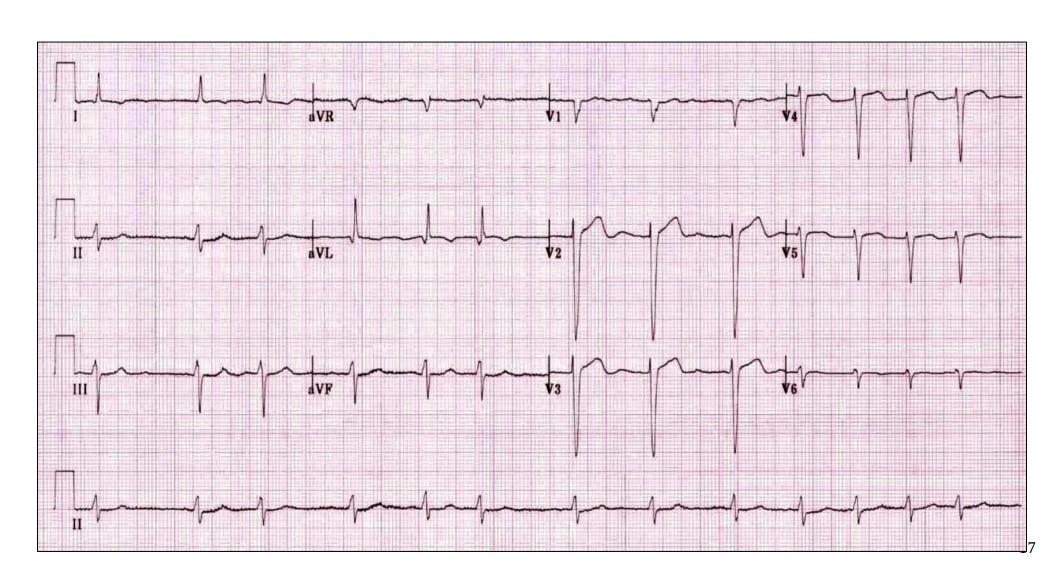
After taking a focused history from the patient it is revealed that Mr. Johnson has had this pain in his leg for 2 hours. He describes it as an aching pain worsened by walking and elevation. You examine the patient and find that his right leg is paler than the left, cool to touch and has inconsistent sensory function on the dorsal aspect of the foot. Motor function is still in tact. Prior to this there has been no known history of peripheral vascular disease or intermittent claudication.

The nurse hands you an ECG they obtained from the patient.

Patient: Mr. Johnson

Age: 55

Gender: male



3. What does the ECG show?
You hand this information over to your registrar and they tell you they are suspecting an acutely ischaemic limb
4. How are ischaemic limbs classified?
5. What are the other potential diagnoses?
6. How will you manage this patient both immediately and definitively? (cue: what management can you commence in the emergency department? Whice team will need to be contacted for the definitive treatment?)
,
7. What services are available within the hospital to assist you in the management of
this patient during the post operative period?

8. You are asked to review the patient post operatively and they are complaining of 10/10 pain in the right lower limb. What complication/s may have occurred?

Case 5

Mrs. Jenkins has just undergone a laparoscopic cholecystectomy and has returned to the ward. She is a 60-year-old woman who has a history of previous deep venous thrombosis.

One of the junior nurses pages you and asks if you want anticoagulation for this patient.

- 1. What risk factors do you need to enquire about to assess the risk for a venous thromboembolism occurring?
- 2. What mechanical devices do we use to prevent VTE?
- 3. What pharmacological agents are available for prevention of VTE?
- 4. Chart an appropriate dose of enoxaparin.

	Regul	ar me	dication	ons							
	Year 20		•••		Date and	month	\rightarrow				
	Variable	dose me	edication	S		Drug leve	el		The A		
*	Date	Medication	(Print Gener	ric Name)		Time leve	el taken				
_						Dose			E		
	Route	Frequency			Dose Time	5030			\vdash		
-		Prescriber	to enter indivi	dual dose		Prescribe	er				
Date	Indication			Pharmacy	y use	Nurse					
۵	Prescriber	Signature	Print your n	ame	Contact	Time give	en				
	VTE risk as:	sessed:	Extreme	High	Moderat	e Low	Contr	aindica	ted		
* ,	Date	Medication	(print generi	c name)					ΓΉ		
	Route	Dose	Frequency	and NOW	Enter Times	\rightarrow					
	Indication VTE proj	ohylavie		Pharmacy	Use						
1	Prescriber S		Print your r	name		Contact					
9									\vdash		
Date	Mechanical	Prophylaxis					CHECK				
	Prescriber/N	I Signature	Print Your	Name		Contact	PM				

Case 6
You are on the way to a clinical review for a patient with a low blood pressure. The patient is day 1 post hemi-colectomy.
<u>Vital Signs</u>
Heart Rate: 115
Blood Pressure: 98/80
Temperature: 36.9
Respiratory rate: 24
The patient is complaining of generalised abdominal pain that has been getting worse since
the morning
1. What are the potential causes for hypotension in the post-operative patient?

3. What management will you initiate?

Your second patient for the day is also hypotensive but is 5 days following a cholecystectomy. The patient is short of breath and has convincing crackles in their left lower lobe. The patient is septic.

- 4. What is sepsis? What symptoms or signs will you look for?
- 5. What antibiotics would be used in this case?

If you aren't sure you should review the surviving sepsis guidelines, which provide guidance on antibiotic choice in a wide range of clinical scenarios.

6. Who can be contacted if there are doubts about choice of antibiotics?

Case 7

Mr. Jones is a 55-year-old man who is having a hemi-colectomy in 2 days. The nursing staff want to know if you would like him to continue taking his regular medications. He is currently on Metformin 1g BD and Gliclazide 80mg Daily (dose).

1. What is your plan for these medications?

Mrs. Ruffalo is a 61yo female, had a cholecystectomy 1 day ago and is expected to be in hospital for 2 more days. He has known type 2 diabetes. The nurse mentioned that the blood sugars have been somewhat erratic and unpredictable.

You calculate the mean daily glucose is 17mmol/L.

2. How are you going to manage this patients blood sugars?

You are attending morning ward round and are seeing Mr. Wong. He was brought into the Emergency Department last night and is to have an appendectomy. He is a Type 1 Diabetic and is normally on basal-bolus regimen of insulin. The patient is fasted and you have maintenance fluid running. Your student asks you if you will prescribe his normal insulin as they are concerned you will make the patient hypoglycaemic.

3. How will you respond to this statement?

Case 8

You have been asked by your registrar to see a 40 year old female in the Emergency department who has a suspected bowel obstruction. You attend the patient's bedside and a 2 day history of cramping abdominal pain with a recent onset of nausea and vomiting. There is a past history of hypertension, type 2 diabetes mellitus and a surgical history of an appendectomy 15 years ago and a cholecystectomy 5 years ago.

ν с .	indectoring 25 years ago and a choice facetoning 5 years ago.
1.	Is this likely to be a small bowel obstruction or a large bowel obstruction?
2.	How do the presentations differ?
3.	What are the causes of small bowel obstructions?
4.	What are the causes of large bowel obstructions?
5.	What imaging/investigations will you order for this patient?
	vity – Visit the website below to see excellent radiographic images of the different s of bowel obstruction.

http://www.radiologymasterclass.co.uk/tutorials/abdo/abdomen_xray abnormalities/pathology small bowel obstruction

6.	How will you manage this patient?
7.	While the patient is waiting for surgery you are called to the ward for a clinical review. The pain is now constant and the abdomen has generalized tenderness.
	The patient is guarding when you palpate. What do you think has happened?

_			_
Са	S	ρ	C

You have been asked to see Mrs. Lucas on the ward. She is currently nil orally and has a nasogastric tube inserted. The nurse in charge has asked you to prescribe some IV fluids as he thinks the patient is hypovolaemic.

1. What examination findings will you look for to confirm hypovolaemia?

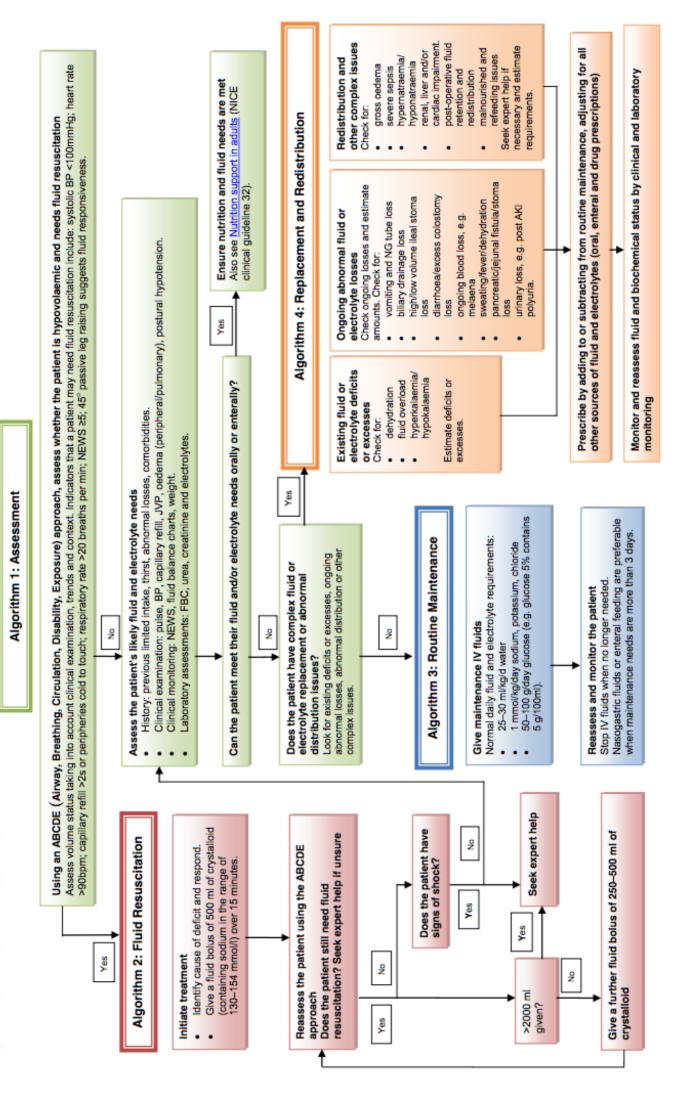
On examination you discover that Mrs. Lucas has cool peripheries, heart rate of 100 and a blood pressure of 125/80. You decide that this patient requires fluid resuscitation and routine maintenance.

2. If Mrs Lucas is 65kg and has no other comorbidities, what will you prescribe this patient? (use the flow chart on the next page if you need some guidance)

https://www.nice.org.uk/guidance/cg174/chapter/1-recommendations

These guidelines (quite short and well worth a read) break fluid prescription down to three components.

Algorithms for IV fluid therapy in adults



Surgery

Skills and Procedures Checklist - PGY 1

The PGY 1 Doctors in Training should work towards competency and be confident to perform the following procedures relevant to general surgery:

Element	Procedure's relevant to general surgery: Procedure/skill	Observed	Assisted	Performed
	Incision of drainage of sub cutaneous abscess			
Minor	Excision of skin lesions			
surgical	Closure of a superficial wound			
Suigicai	Surgical knots and simple suture insertion			
	Removal of suture and staples			
	Care of wound healing by secondary			
	infection			
Wounds	Debridement of superficial contaminated			
Wounds	wound			
	Removal of foreign body from eye, ear and			
	nose			
	Insertion of intercostal drain			
Tubes &	Placement of urethral catheter			
drains	Placement of nasogastric tube			
ui uiiio	Pleural/peritoneal tap			
	Removal of wound drain			
Splinting	Applying a plaster backslab splint			
Cannulation	Insertions of IV cannula			
BLS	Basic life support			
Haemorrhage	Superficial wound haemostasis			
Control	Epistaxis			
Emergency	Post-operative bleeding			
Assessment	Acute abdomen			
and	Abdominal sepsis			
Management	Septic shock			
Management	GI Bleeding			

Referenced from the Royal Australasian College of Surgeons Essential Surgical Skills

Please list any further skills and procedures experienced on Surgery rotation: include co-signature from supervisor			
Details of procedure/skill	Observed	Assisted	Performed

Comments/reflections from experiences listed in this section:	

Skills and Procedures Checklist - PGY 2+

By the end of PGY 2 Doctors in Training should be able to perform the above procedures and $\,$

be working towards competency in these additional procedures relevant to surgery:

Element	Procedure/skill	Observed	Assisted	Performed
	Insertion of IV cannula in children			
	Maintenance of IV fluid management for children			
Paediatric	IV fluid resuscitation for children			
Surgery	Advanced Paediatric Life Support			
	Appropriate prescribing of analgesia for a child			
	Recognises and initiated managements of			
	orthopaedic emergencies			
	Open fractures			
	Compartment syndrome			
	Cauda equine syndrome			
	Acute bone and joint infections/sepsis			
	Recognise and diagnoses common orthopaedic			
	presentations			
	Common fracture classification application			
	Principles of closed reduction of simple fractures			
	and dislocations			
Orthopaedic	Application of common upper and lower limb			
Surgery	plaster casts			
	Draping for upper and lower orthopaedic			
	procedures			
	Ordering equipment for uncomplicated primary			
	hip and knee joint replacement surgery			
	Supervised surgery for common upper and lower limb fractures			
	Ankle fracture			
	Neck of femur fracture			
	Forearm fracture			
	Reduction of colles' wrist fracture			
	Reduction of shoulder dislocation			
	Assessment of acute limb ischaemia			
	Investigation and management of patients with			
Vascular	acute limb ischaemia			
Surgery	Calculation of Ankle Brachial Index			
	Care of angiographic puncture sites			
Pre-operative	Appropriate assessments and investigations			
	Post-operative care of common elective and			
Post-	trauma procedures			
operative	Post-operative physiotherapy and rehabilitation			
care	after elective and trauma procedures			
ALS	Advanced life support			
	Miscarriage			
Emorgonov	Closed head Injury			
Emergency Assessment	Compartment Syndrome			
and	Trauma			
Management	Long Bone fractures			
Bomont	Burns			
	Tendon Injury			

Please list any further skills and procedures experienced on Surgery rotation: include co-signature from supervisor			
Details of procedure/skill	Observed	Assisted	Performed
Comments/reflections from experiences listed in this section:			

Mini-CEX Assessment 1

Introduction:

A mini-CEX exercise assessment (mini-CEX) is a 15-20 minute snapshot of doctor-patient interaction observed and assessed by a senior departmental doctor (Consultant or Registrar). Various skills to be assessed during a patient consultation include; medical interviewing, physical examination, communication, clinical judgement, professional qualities, counselling skills, organisation and efficiency.

Instruction:

During core rotations DiTs are expected to complete *a minimum of 2 mini-CEX assessments* from the skills and procedure check list provided below.

Department:			
Date:			
Clinical Problem:			
Assessment Criteria	Descriptors	Results	
1. Medical Interviewing	 Elicits a history that is relevant, concise and accurate to patient's context and preferences Effectively uses appropriate questions Responds appropriately to verbal and non-verbal cues 	□ Competent □ Not yet competent	
2. Physical examination skills	 Performs a focused physical examination that is relevant and accurate Provides competent explanation to patient Sensitive to patient's comfort and modesty 	□ Competent □ Not yet competent	
3. Communication	 Develops rapport, trust and understanding with patient/family Accurately conveys relevant information and explanations to patients/family and other health professionals Develops a shared plan of care with patients/families and other health professionals 	□ Competent □ Not yet competent	
4. Clinical judgment	 Demonstrates effective clinical problem solving and judgement to address patient problems Interprets available data and integrates information to generate differential diagnoses and management plans 	□ Competent □ Not yet competent	
5. Professionalism/ Counselling skills	 Exhibits honesty, integrity, compassion and respect Participates effectively and appropriately in an interprofessional healthcare team Appropriately manages conflicts of interest Aware of own limitations Effectively manages challenges such as obtaining informed consent, delivering bad news, addressing anger and misunderstanding 	□ Competent □ Not yet competent	
6. Organisation/ efficiency	 Sets priorities and manages time efficiently Manages competing demands and stress Appropriately manages supervision, resources and staff. 	☐ Competent☐ Not yet competent	
Overall performance Assessor comments	□ Competent □ Not yet competent con candidate's strengths and areas for improvement.		
, is continuents	on canadate 3 strengths and areas for improvement.		

Mini-CEX Assessment 2

Introduction:

A mini-CEX exercise assessment (mini-CEX) is a 15-20 minute snapshot of doctor-patient interaction observed and assessed by a senior departmental doctor (Consultant or Registrar). Various skills to be assessed during a patient consultation include; medical interviewing, physical examination, communication, clinical judgement, professional qualities, counselling skills, organisation and efficiency.

Instruction:

During core rotations DiTs are expected to complete *a minimum of 2 mini-CEX assessments* from the skills and procedure check list provided below.

Department:			
Date:			
Clinical Problem:			
Assessment Criteria	Descriptors	Results	
1. Medical Interviewing	 Elicits a history that is relevant, concise and accurate to patient's context and preferences Effectively uses appropriate questions Responds appropriately to verbal and non-verbal cues 	□ Competent □ Not yet competent	
2. Physical examination skills	 Performs a focused physical examination that is relevant and accurate Provides competent explanation to patient Sensitive to patient's comfort and modesty 	□ Competent □ Not yet competent	
3. Communication	 Develops rapport, trust and understanding with patient/family Accurately conveys relevant information and explanations to patients/family and other health professionals Develops a shared plan of care with patients/families and other health professionals 	□ Competent □ Not yet competent	
4. Clinical judgment	 Demonstrates effective clinical problem solving and judgement to address patient problems Interprets available data and integrates information to generate differential diagnoses and management plans 	☐ Competent☐ Not yet competent☐	
5. Professionalism/ Counselling skills	 Exhibits honesty, integrity, compassion and respect Participates effectively and appropriately in an interprofessional healthcare team Appropriately manages conflicts of interest Aware of own limitations Effectively manages challenges such as obtaining informed consent, delivering bad news, addressing anger and misunderstanding 	□ Competent □ Not yet competent	
6. Organisation/ efficiency	 Sets priorities and manages time efficiently Manages competing demands and stress Appropriately manages supervision, resources and staff. 	☐ Competent☐ Not yet competent	
Overall performance Assessor comments	 □ Competent □ Not yet competent on candidate's strengths and areas for improvement. 		
. issessor comments	and dieds for improvement		

Case Based Presentation 1

Introduction:

During core rotations DiTs are requested to record **at least one case** that provided a valuable learning opportunity. The purpose of this assessment is to assist staff, allowing them to reflect upon clinical practice and develop insight into recognising limitations. At the end of term rotation assessment, DiTs are encouraged to seek feedback on these journals. (*De identify all cases -NO PATIENT ID PLEASE*)

Department:		
Case/Presentation		
Description: Overview of what has happened.		
Feelings: What were you thinking and/or feeling throughout?		
Evaluation: What was positive and/or negative about the experience?		
Analysis: What was the underlying cause/issue of the situation?		
Conclusion : What else could have been done?		
Action plan: If this case was presented again would you do anything differently?		

Case Based Presentation 2

Introduction:

During core rotations DiTs are requested to record **at least one case** that provided a valuable learning opportunity. The purpose of this assessment is to assist staff, allowing them to reflect upon clinical practice and develop insight into recognising limitations. At the end of term rotation assessment, DiTs are encouraged to seek feedback on these journals. (*De identify all cases -NO PATIENT ID PLEASE*)

Department:		
Case/Presentation		
Description: Overview of what has happened.		
Feelings: What were you thinking and/or feeling throughout?		
Evaluation: What was positive and/or negative about the experience?		
Analysis: What was the underlying cause/issue of the situation?		
Conclusion : What else could have been done?		
Action plan: If this case was presented again would you do anything differently?		

References:	
1.	Burns E. Atrial Fibrillation [Internet]. 2016 [cited 2016 Jul 14]. Available from: http://lifeinthefastlane.com/ecg-library/atrial-fibrillation/

The Medical Education team would like to acknowledge Dr. Ben Scott for his work in developing this resource for Doctors in training at Ballarat Health Services