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# JMO FORUM NSW:

## UNIFIED EDUCATION SERIES FOR JUNIOR MEDICAL OFFICERS IN NSW

**NSW JMO FORUM 2021**

### **ABSTRACT**

These recommendations are a revision of the original document produced by the Education Portfolio of the NSW JMO Forum 2010, 'Proposal for a unified education series for Junior Medical Officers'.



HEALTH  
EDUCATION  
& TRAINING

[HETI-JMOForum@health.nsw.gov.au](mailto:HETI-JMOForum@health.nsw.gov.au)

## Acknowledgements:

The group of NSW JMO Forum Representatives compiling this revision of the Proposal for a Unified Education Series for Junior Medical Officers in New South Wales, would like to recognise the work of the parent document published by the 2010 NSW JMO Forum. It has served as a benchmark for medical education of Junior Medical Officers across the state over the last decade.

The work produced by the NSW JMO Forum is supported by the Health Education and Training Institute for which special thanks goes to the CE Adjunct Professor Annette Solman, Medical Director Dr. Claire Blizard, and JMO Forum Project Officer Ms Korina Nand – though there are many more who work behind the scenes to help support the Forum.

We also would like to acknowledge the involvement of the many DPETs, JMO Managers and Forum Representatives across the state who have helped provide their feedback and insight into current prevocational teaching which have helped provide direct feedback into the recommendations for this revision.

Finally, I would like to acknowledge the NSW JMO Forum Representatives who have volunteered their time to help gather data, compile and affirm these recommendations for 2021. We are pleased that the work produced by this team has been recognised and presented at the Australian & New Zealand Prevocational Medical Education Forum in October 2021.

Dr. Tamblyn Devoy,

*Project Lead, Chair of the NSW JMO Forum, PGY2 Metropolitan Representative for Network 11*

Dr. Alana Tetley

*PGY2 Rural Representative for Maitland Hospital*

Dr. Cecilia Ostman

*PGY2 Metropolitan Representative for Network 12*

Dr. Michael Hauser

*PGY1 Metropolitan Representative for Network 14*

Dr. Michael O'Sullivan

*PGY1 Metropolitan Representative for Network 10*

Dr. Nicholas Rainnie

*PGY1 Metropolitan Representative for Network 12*

Dr. Tealyn Mayadunne

*PGY1 Metropolitan Representative for Network 2*

Dr. Thu Le

*PGY1 Metropolitan Representative for Network 4*

Dr. Vanessa Wan

*PGY2 Rural Representative for Dubbo Base Hospital*

## Overview:

Intern Medical Officers (MOs) in New South Wales (NSW) are required to participate in further education whilst completing their service requirements during their internship. Typically, these education activities are provided by their Medical Workforce Units or equivalent and cover a range of topics and mediums. In 2010, the NSW Junior Medical Officer (JMO) Forum under the Health Education and Training Institute (HETI) published a document titled 'Proposal for a Unified Education Series for Junior Medical Officers'. This document sets out a guide for which Local Health Districts (LHDs) and hospitals could prepare educational topics to align with across the state. The 2021 NSW JMO Forum has set out to review this document and bring it up to date.

This review encompasses 2 stages:

Stage 1 included a review of current intern teaching curricula from the 2019 and 2020 clinical years. The teaching curricula were provided by HETI for each of the 15 LHDs in NSW. This information was collated to look at trends and themes of intern teaching. It also provides insight into new initiatives in intern teaching at different hospitals.

Stage 2 of this review was to conduct focus groups from key stakeholders utilising representatives from the NSW JMO, and Director of Prevocational Education & Training (DPET) Forums. These groups encompassed a range of postgraduate year (PGY) 1 and PGY2 MOs, and Senior MOs [DPETs] from both metropolitan and regional hospitals. The focus groups were intended to provide valuable information into what is currently being taught, what is missing, and which topics have greater importance to interns. Focus groups were conducted over June 2021.

The outcome of this study is to publish revised recommendations on behalf of the NSW JMO Forum for intern education across the state. It is of note, this is a recommendation only and in no way prescriptive for Local Health Districts in NSW.

The original proposal by the 2010 NSW JMO Forum incorporated the work developed by the Confederation of Postgraduate Medical Education Councils (CPMEC) titled, 'Australian Curriculum Framework (ACF) for Junior Doctors'. This was first developed in 2006 and last revised in 2012 (Version 3.1). It provides a good basis for theming education topics for education of prevocational trainees. Namely these are Clinical Management; Professionalism; Communication; Clinical Symptoms, Problems & Conditions; and Skills & Procedures. Whilst these recommendations have tried to also represent information in similar themes, there are some topics that are not in the ACF but we have included in the rough appropriate theme where possible.

It is worth noting, the Australian Medical Council (AMC) is currently in consultation for a review of the National Framework for Medical Prevocational Training and the recommendations of this document do not supersede the requirements prescribed by the AMC.

In developing these new recommendations, we have moved away from allocating topics to a particular term, and instead focus on topics that have greater utility to interns and would be better placed in the earlier part of the year when interns are still transitioning into their new roles. Moving away from a term-based approach allows for greater flexibility based on local resources for sites to schedule their own teaching. Compared to the 2010 proposal, we hope this version helps provide for equitable, fair and quality education opportunities across all sites. Finally, we have included tips and tricks from around the state to help improve the engagement and diversity of teaching compared to the more traditional didactic lecture style.

## Stage 1:

Intern orientation and teaching schedules were reviewed from 34 hospitals across all 15 Local Health Districts (LHD) across the New South Wales during either the 2019 or 2020 clinical year. All sites across the state provided orientation and regular teaching for junior medical officers. Most sites provided once a week teaching of 1 hour, however, variations included 2-hour teaching once a fortnight; combined teaching of interns and residents – and sometimes registrars; separate teaching of interns and residents; and more than 1 hour teaching per week. Many sites also included an orientation for each term, but it is unclear the basis to why some sites did or did not do this, nor does this information provided specifically focus on this aspect. It could be postulated this resource may be for new staff who have not been to site before; a refresher introduction; or other.

Many smaller sites within an LHD had shared orientation packages at the largest site, and many also tele-linked to the LHD main tertiary hospital for weekly education sessions. Many smaller sites, however, maintained their own education series which focused greater on the hospital's strengths or a greater focus on rural and regional medicine topics.

Several sites also referred directly to the 2010 Proposal for a Unified Lecture Series for Junior Medical Officers as a basis for their education themes.

Whilst not specifically stated in education schedules provided to HETI, anecdotally, most sites provided complimentary food for those attending the teaching.

Notably, the impact of COVID-19 during the 2020 clinical year cannot go unmentioned as many sessions were moved online and/or cancelled due to social distancing requirements.

### **Orientation Schedules:**

Orientation schedules at many sites were similar in providing introductory sessions on a range of Clinical Management; Professionalism; Communication; Clinical Symptoms, Problems & Conditions; and Skills & Procedures themes as defined by the ACF. The breakdown of these sessions can be found in Table 1. They have been placed in order of prevalence recorded in orientation schedule across sites.

At times, limited information is provided by the schedules where a speciality topic is recorded but the specific topic taught was not recorded. It is also noted that HETI mandates online education for new employees via their MyHealthLearning platform and may not be represented in the orientation schedules.

Orientation programs were also supported by standardised programs within NSW Health such as DETECT and/or DETECT Junior which was conducted at 11 sites, Resus4Kids at 1 site and non-standardised programs discussing Between The Flags or deteriorating patients at 6 other sites.

By and large, orientation programs focused heavily on infection control, medication safety and practicalities of charting medications, deteriorating patients, core procedural skills and key therapeutic topics such as diabetes mellitus, VTE/anticoagulation and antibiotics. 1 hospital included a formalised assessment of procedural skills which included basic life support, venepuncture and cannulation.

### **Teaching Schedules:**

There were greater range of topics covered throughout the year compared to orientation schedules. A great number of topics were not included within the ACF. Most commonly radiology related

topics, antimicrobial stewardship, end of life care, intravenous fluids and electrolytes, medication safety/therapeutics, wellbeing & self-care, medicolegal topics, diabetes mellitus, delirium, simulations, and ECG interpretation were presented more than 20 times across sites. Like orientation schedules, some teaching schedules listed the speciality presenting the teaching but not the specific topic covered. A full list of all education topics during year can be found in Table 2 which includes the prevalence of these topics.

Topics like radiology and diabetes were presented multiple times throughout the year at the same site. Of note, 1 site provided interns in their 1<sup>st</sup> term complementary 10min introductions on a range of therapeutic education such as anticoagulation, and IV heparin charting, prior to commencing their usual education topic for that week.

Many sites had a strong emphasis on simulation education. This likely reflected increased awareness to the benefits of simulation education and the increased availability of simulation labs and centres. Unfortunately, not many sites recorded the themes of simulations. Anecdotally a lot of hospitals, JMO Units and peer-led interest groups provide further opportunities to practice skills and scenarios in a simulated setting which is not captured in this data review.

Some sessions were supplemented with some sites providing booklets for education opportunities for each department; Resident Medical Officer [RMO]-lead teaching sessions, JMO research presentations and JMO M&M sessions. Some sites had education days or bootcamps instead of regular weekly teaching which included simulations and skills workshops. Of note, the list of procedures and skill covered in the ACF were much more restrictive than the list of procedures and skills covered across the sites provided to interns.

Not previously considered in the teaching schedules is the proportion of non-clinical sessions ranging from wellbeing themes, general updates, mandatory tasks, and feedback sessions like the required termly General Clinical Training Committee. Protected teaching time for education is commonly used as an opportunity for undivided cohort attention for important messaging, and opportunities to debrief and bond as a cohort. Some sites also used the last session of each term for JMO handover lunches between terms.

Notably the impact of COVID-19 on teaching schedules cannot go unmentioned. Some sites saw their entire education program halted due to the social distancing requirements, and other sites had some ingenious ways of bridging the gap this created. For example, one site provided an "speed dating" program for peer-taught topics between registrars and senior RMOs at a ratio 1:2 interns to go over a topic. Interns were able to select the topics that interested them and meet within the recommendations during the start of the pandemic. Other sites moved their teaching online. It was less clear how many sites were required to do this, and the impact resources had in this change.

Finally, noted in many schedules were the change or late cancellations of topics due to scheduling issues for presenters which was also noted in the focus groups by DPETs. This combined with the common approach of reduced teaching during the final term of the clinical year, also meant there was a lot of protected time not being used efficiently.

Table 1: Orientation Schedule topics in order of occurrence across different sites	
<b>Clinical Management</b>	
Infection Control (includes needlestick injuries, PPE) (23) Therapeutics* (14) After Hours^ (13) Medication Safety (includes medication reconciliation, prescribing and charting) (13) Antimicrobial Stewardship (12) Blood Product Management (12) Basic Life Support (11) Prioritisation (includes MET [Medical Emergency Team]) (10) Radiology^ (includes non-radiological imaging, interventional radiology) (9) Advanced Life Support (8) Hand hygiene^ (8) Intravenous Fluids & Electrolytes (8) Pain Management (8) Systems (includes discharge planning, on-call, e-patient record) (7)	Ambulatory & Community Care (includes HITH) (6) Referral & Consultation (6) Pathology^ (includes ordering tests) (5) End of Life Care (4) Adverse Events & Near Misses (includes NSW IIMS+) (3) Emergency Medicine^ (3) Psychiatry^ (3) eHealth/Telehealth^ (2) General Medicine^ (2) Subacute Care (includes rehabilitation medicine) (2) Haematology^ (1) Risk & Prevention (1) Surgery & Perioperative Care ^ (1) Urology^ (1)
<b>Professionalism</b>	
Death Certification (11) Wellbeing & Self-Care^ (8) Medicine and the Law (includes scheduling) (7) Patient Privacy (4)	Informed Consent (2) Career Pathways (1) Human Relations^ (1) Teaching (1)
<b>Communication</b>	
Written (includes discharge summaries) (10) Handover/ISBAR (9) Health Records (7) Open Disclosure (4) Communication Skills (2) Complaints (2)	Breaking Bad News (1) Discharge Against Medical Advice^ (1) End of Life Communication^ (1) Health Records (1) Team Dynamics (1)
<b>Clinical Symptoms, Problems &amp; Conditions</b>	
Deteriorating Patient^ (17) Diabetes mellitus & direct complications% (7) Venous Thromboembolism (VTE) Prevention^ (7)	Respiratory Infections (including Community Acquired Pneumonia/CAP) (2) Substance Abuse & Dependence (2) Cardiac arrhythmias (1)

Sepsis (6) Child Abuse (5) Management of Anticoagulation (5) Agitation (includes violence & aggression) (4) Delirium (4) Breathlessness (3) Chest Pain (3)	Cerebrovascular disorders (1) Clinical Scenarios/Case Based Discussion^ (1) Domestic Violence (1) Falls (1) Fever (1) Liver Disease (1)
<b>Skills &amp; Procedures</b>	
Intravenous Cannulation (16) Urethral catheterization (9) Venepuncture (8) Nasogastric Tube insertion (7) Airway care (5) Arterial Puncture (5) Blood culture (5) Central Venous Lines^ (2)	Simulations^ (2) Ultrasound-guided blood access^ (2) Chest Drain^ (1) Plastering (1) Preparation & administration of infusions (1) Surgical Skills^ (1) Suturing (1)

Note: in Version 3.1 of the ACF Infection Control also includes hand hygiene which is often 2 separate topics across the state. Similarly fluid, electrolyte and blood product management is also one topic which is often broken into intravenous fluids and electrolytes, and blood product management as 2 separate topics.

\* Therapeutics as per ACF includes the involvement of nurses, pharmacists and allied health professionals, though pharmacy and allied health are often separate topics

^ Topic note included in the ACF

% Commonly include education on insulin types and indications

Table 2: Teaching Schedule topics in order of occurrence across different sites	
<b>Clinical Management</b>	
Radiology (includes non-radiological imaging, interventional radiology) <sup>^</sup> (31) Antimicrobial Stewardship (30) End of Life Care (includes Palliative Care Medicine) (26) Intravenous Fluids & Electrolytes (25) Therapeutics* (23) Infection Control (includes needlestick injuries, PPE) (20) Obstetrics and Gynaecology [O&G] <sup>^</sup> (mostly O&G emergencies) (20) Pain Management (20) Surgery & Perioperative Care <sup>^</sup> (19) Paediatrics <sup>^</sup> (includes Failure To Thrive) (17) Anaesthesia <sup>^</sup> (include local anaesthesia) (15) Ophthalmology <sup>^</sup> (includes emergency eye trauma) (15) Urology <sup>^</sup> (15) Advanced Life Support (13) Basic Life Support (includes neonatal & paediatric resus) (13) Medication Safety (includes medication reconciliation, prescribing and charting) (13) Psychiatry <sup>^</sup> (13) Blood Product Management (10) Otorhinolaryngology <sup>^</sup> (10) Haematology <sup>^</sup> (9) Intensive Care Medicine <sup>^</sup> (9) Oncology <sup>^</sup> (mostly emergencies) (9) Systems (includes discharge planning, on-call, e-patient record) (9) Geriatric Medicine & Aged Care <sup>^</sup> (8) Pathology <sup>^</sup> (includes ordering tests) (8)	Prioritisation (includes MET [Medical Emergency Team]) (8) Vascular Surgery <sup>^</sup> (8) Risk & Prevention (includes Root Cause Analysis, patient safety) (7) General Medicine <sup>^</sup> (6) Emergency Medicine <sup>^</sup> (5) Neurology <sup>^</sup> (includes emergencies) (5) Rheumatology <sup>^</sup> (5) After Hours <sup>^</sup> (3) Ambulatory & Community Care (includes HITH, Preventative Medicine) (3) Nephrology <sup>^</sup> (3) Subacute Care (includes rehabilitation medicine & palliative care programs) (3) Cardiology <sup>^</sup> (2) Gastroenterology <sup>^</sup> (2) Indigenous and Refugee Health <sup>^</sup> (2) Respiratory Medicine <sup>^</sup> (2) Anatomical Pathology <sup>^</sup> (1) Critical Care Medicine <sup>^</sup> (1) Endocrinology <sup>^</sup> (1) Hand hygiene <sup>^</sup> (1) Neurosurgery <sup>^</sup> (1) Nuclear Medicine <sup>^</sup> (1) Organ & Tissue Donation <sup>^</sup> (1) Plastics & Reconstructive Surgery <sup>^</sup> (1) Radiation Safety (1) Referral & Consultation (1)
<b>Professionalism</b>	
General Update Session/Feedback/Debrief/GCTC/Vaccination Sessions <sup>^</sup> (68) Wellbeing & Self-Care <sup>^</sup> (35)	Patient Privacy (includes confidentiality) (7) Self-Directed Learning (including research) (7) Informed Consent (includes capacity) (6)



<p>Medicine and the Law (includes scheduling, guardianship) (21)  Death Certification (includes Coronial Cases) (14)  Professional Development (includes CV writing and interview techniques, social media) (14)  Career Pathways (12)  Teaching (11)</p>	<p>Financial Information<sup>^</sup> (4)  Healthcare Resources (2)  Professional Responsibility (2)  Discharge Against Medical Advice<sup>^</sup> (1)  Doctors as Leaders (1)  Practitioner in Difficulty (1)</p>
<p>Communication</p>	
<p>Breaking Bad News (11)  Health Records (5)  Communication Skills (4)  Team Dynamics (4)  Complaints (3)</p>	<p>Written (includes discharge summaries) (3)  End of Life Communication<sup>^</sup> (1)  Evidence-based Practice (1)  Open Disclosure (1)</p>
<p>Clinical Symptoms, Problems &amp; Conditions</p>	
<p>Diabetes mellitus &amp; direct complications (includes hypoglycaemia, Diabetic Ketoacidosis)<sup>%</sup> (35)  Delirium (22)  Fractures (20)  Chest Pain (18)  Gastrointestinal Bleeding (18)  Breathlessness (includes hypoxia, respiratory failure) (17)  Cardiac arrhythmias (17)  Trauma (includes Minor &amp; Multiple Trauma, and Traumatic Brain Injury) (17)  Abdominal Pain (15)  Deteriorating Patient<sup>^</sup> (15)  Hypertension (14)  Management of Anticoagulation (13)  Syncope (include vertigo) (13)  Ischaemic Heart Disease (includes Acute Coronary Syndromes) (12)  Poisoning/Overdose (includes withdrawal) (12)  Cerebrovascular Disorders (11)  The Sick Child (10)  Sepsis (include febrile neutropenia) (8)</p>	<p>Pain &amp; Bleeding in Early Pregnancy (3)  Anaemia (includes haemolytic anaemia) (2)  Child Abuse (2)  Domestic Violence (2)  Malignancies (2)  Malnutrition (includes TPN) (2)  Osteoporosis<sup>^</sup> (2)  Per Rectal Bleeding<sup>^</sup> (2)  Problem Formulation (2)  Re-feeding Syndrome<sup>^</sup> (2)  Respiratory Failure<sup>^</sup> (2)  Shock (2)  Acute Ocular Pain<sup>^</sup> (1)  Acute Pulmonary Oedema<sup>^</sup> (1)  Anorectal Conditions<sup>^</sup> (1)  Autonomic Dysreflexia<sup>^</sup> (1)  Cognitive or Physical Disability (1)  Common MSK<sup>^</sup> (1)  Cystic Fibrosis<sup>^</sup> (1)  Cytopenia<sup>^</sup> (1)</p>

Respiratory Infections (including Community Acquired Pneumonia/CAP, Bronchiectasis) (7) Substance Abuse & Dependence (7) Venous Thromboembolism (VTE) Prevention^ (7) Agitation (includes violence & aggression) (6) Anaphylaxis (6) Falls (including prevention) (6) Chronic Obstructive Pulmonary Disease (5) Depression (5) Acute Kidney Injury^ (4) Anxiety (4) Common skin rashes & infection (4) Heart Failure (4) Liver Disease (includes chronic liver disease, viral hepatitis) (4) Psychosis (4) Renal Failure (includes Chronic Kidney Disease and Dialysis) (4) Seizure Disorders (4) Arthritides & Joint Disorders^ (3) Asthma (3) Back pain (3) Burns (3) Dementia (3)	Deliberate self-harm & suicidal behaviours (1) Diarrhoea (1) Ear Conditions^ (1) Electrolyte Disturbances (1) Envenomation (1) Fever (1) Meningitis (1) Myositis^ (1) Nausea & Vomiting (1) Non-specific febrile illness (1) Per Vaginal Bleeding^ (1) Peripheral Vascular Disease^ (1) Pneumothorax^ (1) Pyelonephritis & UTIs (1) Scleroderma^ (1) Sexual Assault^ (1) Sexual Health^ (1) Systemic Lupus Erythematosus (SLE)^ (1) Thromboembolic disease (includes Pulmonary Embolism) (1) Transfusion Reaction^ (1) Urinary Incontinence & Retention (1)
<b>Skills &amp; Procedures</b>	
Simulations^ (27) ECG [Electrocardiogram] Interpretation (26) Airway care (includes oxygen management & intubation) (18) Chest Xray Interpretation^ (12) Chest & Surgical Drains^ (11) Abdominal Xray Interpretation^ (9) Wound Care^ (includes dressings) (9) Central Venous Lines^ (8) Ultrasound (including blood access)^ (7) Suturing (6)	Nasogastric Tube insertion (3) Interosseous Insertion^ (2) Joint Injection^ (2) Lumbar Puncture^ (2) Skills Session^ (2) Spirometry^ (2) Surgical Skills^ (2) Urethral catheterization (2) Anatomy (includes upper and lower limb)^ (1) Fundoscopy^ (1)

Examination skills (includes Hip, Knee, Shoulder, Lower Back, Neurology)^ (5) Arterial Blood Gas [ABG] Interpretation^ (4) Ascitic Tap^ (4) Arterial Puncture (3) Microscopy Interpretation^ (3)	Intravenous Cannulation (1) Peripheral Blood Films^ (1) Plastering (1) Scrubbing & Aseptic Technique^ (1) Xray Imaging of Lines^ (1) Xray Shoulder & Elbow^ (1)
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Note: in Version 3.1 of the ACF Infection Control also includes hand hygiene which is often 2 separate topics across the state. Similarly, fluid, electrolyte and blood product management are one topic which is often broken into intravenous fluids and electrolytes, and blood product management as 2 separate topics.

\* Therapeutics as per ACF includes the involvement of nurses, pharmacists and allied health professionals, though pharmacy and allied health are often separate topics

^ Topic note included in the ACF

% Commonly include education on insulin types and indications

## Stage 2:

Stage 2 of the project comprised a series of focus groups with three core groups of stakeholders in the area of JMO education from NSW: Group 1 – DPET and JMO Managers, Group 2 – PGY1 MOs, and Group 3 – PGY2 MOs. Questions for these semi-structured focus groups were developed by the working group to elicit key themes regarding JMO teaching, including successes and limitations of the current system, and content to be prioritised. These questions can be found in Appendix 1 (DPET questions) and Appendix 2 (JMO questions). The sample of JMOs (both PGY1 and PGY2) was drawn from the members of the 2021 NSW JMO Forum. Focus groups were conducted during the month of June 2021 using a web-based video conferencing platform.

Eight PGY1 MOs participated in the focus groups, seven from metropolitan hospitals and one from a rural/regional hospital. Six PGY2 MOs participated in the focus groups; four from metropolitan hospitals and two from rural/regional hospitals. Six DPETs participated in the focus groups, all from metropolitan hospitals. Common and cohort specific themes that emerged from the focus groups are outlined below.

### **General themes across PGY1, PGY2 and DPET:**

- Facilitators to education
  - o Near peer education
  - o Teaching skills of the presenter
  - o Style of presentation (interactive and engaging being preferable to didactic)
  - o Strategies to protect teaching time
  - o Having the ability to prepare ahead of time to get the most out of sessions
- Barriers to education
  - o Timing
  - o Workload
  - o Mindset that education is not a priority
  - o Online versus in person (with preference towards in person)
  - o Lack of resources
- Innovative ideas
  - o Incentives (protected teaching time, food)
  - o Interdisciplinary teaching
  - o Practical skills sessions
  - o Case based teaching
  - o Standardised templates for teaching sessions
- Important content
  - o After-hours clinical reviews
  - o High risk medications
  - o Interpreting common investigations
  - o Consenting common procedures
  - o Practical implication of theory and skills

During focus group, participants were asked to identify topics from the 2010 Unified Lecture Series that they considered as 'core' learning for interns and to rank topics in order of perceived importance. This data, along with the data collated from Stage 1 and the 2012 ACF, were used to develop a revised set of recommendations for intern teaching in NSW. The outcome of this can be found on the following page. Rather than breaking down recommendations temporally by terms, we have instead chosen to identify topics as either 'priority' (considered core or essential to intern teaching and should be prioritised where possible) or 'encouraged' (to be delivered if given the opportunity as these topics are likely to enrich intern learning and professional development).

Lecture Series:

	Clinical Management	Professionalism	Communication	Clinical Symptoms, Problems & Conditions	Skills & Procedures
<i>Priority</i>	Advanced Life Support After Hours APINCH Therapeutics & Medication Safety Basic Life Support (includes neonatal & paediatric resus) Infection Control Intravenous Fluids & Electrolytes Pain Management Patient Blood Management Referral & Consultation Surgery & Perioperative Care	Death Certification Informed Consent Mandatory Reporting Medicine & the Law Patient Privacy The Award & Payroll Wellbeing & Self-Care	Breaking Bad News Documentation Open Disclosure	Abdominal Pain Agitation & Delirium Anticoagulants & VTE Prophylaxis Breathlessness Cardiac Arrhythmias Chest Pain Diabetes Mellitus & direct complications Gastrointestinal Bleeding Hypo/Hypertension Mental Health Assessment & Psychosis Overdose & Withdrawal Sepsis Syncope & Falls	Airway Care Arterial Puncture Blood Gas Interpretation ECG Interpretation Intravenous Cannulation Nasogastric Tube Insertion Radiology Interpretation (AXR, CXR, Lines) Urinary Catheterisation Venepuncture
<i>Encouraged</i>	Advanced Lines (PICC, CVC) Ambulatory & Community Care Antimicrobial Stewardship End of Life Care Obstetrics & Gynaecology Emergencies Oncology Pathology Tests Subacute Care	Career Pathways Healthcare Resources JMO Research Professional Development Self-Directed Learning Teaching	Difficult Patients or Families Discharge Against Medical Advice End of Life Communication Team Dynamics	Acute Kidney Injury Anaemia Asthma Child Abuse Chronic Liver Disease Depression & Anxiety Fractures Intracerebral Events Ophthalmology Sick Child Substance Abuse & Dependence Trauma	Chest & Surgical Drains Lumbar Puncture Plastering Pleural & Ascitic Taps Simulations Suturing Ultrasound Blood Access Wound Care
Tips & Notes: <ul style="list-style-type: none"> <li>- Ensure engaging learning and safe environment for same and remove barriers to learning (for example, protected time, removing pagers, catering)</li> <li>- Some topics may be covered during orientation</li> <li>- Some topics may be combined. For example, consider combining 2-3 x 15-20 minute sessions instead of 1 x 60 minute session.</li> <li>- Some topics may require more than one session if appropriate. For example, theory and practice components.</li> <li>- See learning objectives for notes for multi-modal approach to teaching</li> <li>- Simple assessment can be used to improve retainment of knowledge and understanding of information. For example, multiple-choice questions.</li> <li>- Do what you do best and harness the expertise in your site, as well as the expertise within your LHD</li> </ul>					

## Learning Objectives:

Learning objectives have been compiled for topics presented in the lecture series and listed below in alphabetical order. They are not an exhaustive list of learning objectives but key points we believed important to include. Learning objectives have come from a combination of sources including the ACF, the 2010 guide and focus group responses.

We have tried to include the relevant speciality where possible as a guide for identifying presenters for a topic. We have also included some ways to better engage intern medical officers to move away from didactic presentations.

Topic: Abdominal Pain		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: General Surgery
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Structured approach to assessing abdominal pain</li> <li>- Considers broad differential diagnoses: <ul style="list-style-type: none"> <li>o Gastrointestinal: bowel obstruction, ileus, appendicitis, cholecystitis, cholangitis, hernia, colitis, inflammatory bowel disease</li> <li>o Urinary Tract: urinary tract infection, renal stones, urinary retention</li> <li>o Gynaecological: pelvis inflammatory disease, ovarian cyst, ectopic pregnancy</li> <li>o Cardiovascular: ruptured abdominal aortic aneurysm</li> </ul> </li> <li>- Highlight diagnoses not to be missed: perforated viscus, ischaemic bowel, strangulated hernia, ruptured abdominal aortic aneurysm, ectopic pregnancy</li> <li>- Understands principles and interpretation of investigations: bedside tests, serology, plain radiology, advanced imaging</li> <li>- Understands principles of basic management of analgesia, aperients, nasogastric tubes</li> <li>- Understands when to refer for operative management</li> <li>- Aware of local policies that affect escalation and management of abdominal pain</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Opportunity to expand on radiology interpretation skills</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Acute Kidney Injury		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Nephrology
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Able to define acute kidney injury</li> <li>- Understands difference between acute kidney injury, chronic kidney disease, and acute on chronic kidney disease</li> <li>- Applies structure approach to working-up acute kidney injury (pre-renal, intra-renal, post-renal)</li> <li>- Able to conduct a fluid assessment &amp; rationalise IV fluids</li> <li>- Understands standard approach to initial investigations</li> <li>- Understands indication for referral within hospital and red flags</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Consider decision-based scenarios for JMOs to discuss management options</li> </ul>		

Topic: Advanced Life Support		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: Intensive Care Medicine
Learning Objectives: <ul style="list-style-type: none"> <li>- Structured approach to advanced life support ('DRS ABCD')</li> <li>- Understand local procedures for escalating care</li> <li>- Understanding and use of basic airway maneuverers &amp; airway adjuncts</li> <li>- Understand basics in bag masking</li> <li>- Recognises malignant arrhythmias</li> <li>- Use of bronchodilators &amp; cardiac drugs</li> <li>- Application &amp; use of cardiac defibrillators</li> <li>- Use of local &amp; national guidelines</li> <li>- Knows where to find emergency alarm button and emergency trolley on ward</li> </ul>		
Notes: <ul style="list-style-type: none"> <li>- Consider subsidizing formalised courses such as ALS2</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Advanced Lines		
ACF Theme: Clinical Management	Lecture Series Category: Encouraged	Specialty: ICU Medicine
Learning Objectives: <ul style="list-style-type: none"> <li>- Understands different types of advanced lines such as central venous catheter (CVC), peripherally inserted central catheter (PICC), midline catheter, port-a-cath, arterial lines</li> <li>- Understands indications for advanced lines</li> <li>- Knows how to safely use and access advanced lines for blood collection and/or medication administration</li> <li>- Knows how to assess advanced lines for signs of infection and blockage</li> <li>- Able to consent a patient for insertion of an advanced line</li> <li>- Understands local policies and systems for obtaining an advanced line for a patient</li> </ul>		
Notes: <ul style="list-style-type: none"> <li>- Training devices can be used to improve recognition of devices</li> </ul>		

Topic: After Hours		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: General Medicine
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Range of common clinical reviews and after hour emergencies <ul style="list-style-type: none"> <li>o Hypo/Hypertension</li> <li>o Hypo/Hyperglycaemia</li> <li>o Single vital derangement (e.g. tachypnoea, desaturation, febrile)</li> <li>o Chest pain</li> <li>o Septic screen</li> <li>o Falls</li> <li>o Verification of death</li> </ul> </li> <li>- Applies principles of prioritisation and triaging of reviews</li> <li>- Identifies patients requiring immediate resuscitation and escalating care</li> <li>- Use of available resources</li> <li>- Ability to instigate initial management</li> <li>- Approach to appropriate investigations</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Consider supplementing with simulations</li> <li>- Consider apps like MedApps that provide after hours guides for common reviews</li> <li>- Consider peer-led teaching opportunity</li> </ul>		

Topic: Agitation & Delirium		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Geriatric Medicine, General Medicine
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Appreciates the different between delirium and dementia</li> <li>- Ability to perform a structured assessment of agitation &amp; delirium</li> <li>- Understands risk factors and causes for delirium and how to reduce these</li> <li>- Able to appropriately work-up a delirious patient</li> <li>- Applies a tiered approach to managing a delirium, agitation, aggressive <ul style="list-style-type: none"> <li>o Non-pharmacological: risk factor management, verbal escalation, re-direction, increased nursing supervision, family and/or security involvement</li> <li>o Pharmacological: anti-psychotics, benzodiazepines</li> </ul> </li> <li>- Understands local policies for pharmacological management of patients in hospital</li> <li>- Understands importance of clear documentation for pharmacological management</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Consider role-play to improve communication skills and techniques</li> </ul>		



Topic: Airway Care		
ACF Theme: Skills & Procedures	Lecture Series Category: Priority	Specialty: Respiratory Medicine, Intensive Care Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands principles of oxygenation and ventilation</li> <li>- Understands oxygen-haemoglobin dissociation curve and interpretation of pulse oximetry</li> <li>- Ability to assess airway and breathing for a patient</li> <li>- Understands indications for oxygen therapy</li> <li>- Understands indications and limitations for oxygen delivery systems (nasal prongs, high flow nasal prongs, oxygen masks, non-invasive ventilation, invasive ventilation)</li> <li>- Ability to apply simple airway manoeuvres &amp; simple airway adjuncts</li> <li>- Ability to perform bag-mask ventilation</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Training devices can be used to improve recognition of devices</li> <li>- May be improved with mixed simulation-theory session</li> </ul>		

Topic: Ambulatory & Community Care		
ACF Theme: Clinical Management	Lecture Series Category: Encouraged	Specialty: HITH, General Medicine, GP
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Knowledge of available ambulatory and community services provided in hospital</li> <li>- Identifies appropriate patients who would benefit for ambulatory and community care</li> <li>- Knowledge of possible HITH services within hospital</li> <li>- Appreciates the post-discharge follow-up process &amp; continuity of care</li> <li>- Able to refer a patient for ambulatory or community care services</li> </ul>		
<b>Notes:</b>		

Topic: Anaemia		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Haematology, Gastroenterology
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to define anaemia in different patient populations</li> <li>- Understands factors affecting blood results and causes of anaemia</li> <li>- Structured assessment of a patient with anaemia including signs and symptoms</li> <li>- Able to work-up a patient with anaemia</li> <li>- Understands indications for blood products and/or iron transfusion</li> <li>- Understands indication for referral within hospital and red flags</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Serology interpretation opportunities can improve engagement &amp; understanding</li> <li>- Consider decision-based scenarios for JMOs to discuss management options</li> </ul>		

Topic: Anticoagulation & VTE Prophylaxis		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Haematology, Vascular Surgery, Cardiology
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Understands basic principles of the clotting cascade</li> <li>- Knowledge of types of anticoagulation and mechanisms of action</li> <li>- Understands different between therapeutic and prophylaxis anticoagulation</li> <li>- Understands indication and contraindications of mechanical VTE prophylaxis</li> <li>- Ability to assess risk factors for VTE and risk-stratify</li> <li>- Understands indications for use of anticoagulation</li> <li>- Understands risks and contraindications for anticoagulation</li> <li>- Identify anticoagulation issues in high-risk patients and different patient states (pre-surgery, acute haemorrhage)</li> <li>- Appropriate investigations for monitoring anticoagulation effect and adverse effects</li> <li>- Understands basic principles in reversal of anticoagulation</li> <li>- Understands indication for referral within hospital and red flags</li> <li>- Understand local &amp; state policies for VTE prophylaxis</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Topic may be improved with providing printed information</li> <li>- Several online resources exist that will help with understanding of topic</li> <li>- Serology interpretation opportunities can improve engagement &amp; understanding</li> <li>- Discussion can be improved with case-based learning</li> </ul>		

Topic: Antimicrobial Stewardship		
ACF Theme: Clinical Management	Lecture Series Category: Encouraged	Specialty: Infectious Diseases
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Understands classes of antibiotics and their use</li> <li>- Common infections, their common causative organism and empirical therapy <ul style="list-style-type: none"> <li>o Respiratory Tract Infection</li> <li>o Urinary Tract Infection</li> <li>o Bone &amp; Joint Infection</li> <li>o Intra-abdominal Infections</li> <li>o Severe sepsis/Septic Shock</li> </ul> </li> <li>- Rationalisation of antibiotic use</li> <li>- Intravenous versus oral antibiotic therapy</li> <li>- Dosing of antimicrobials &amp; factors affecting them</li> <li>- Monitoring of antibiotics levels</li> <li>- Duration of antibiotics</li> <li>- Understands local guidelines and processes for restricted antimicrobials</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases</li> <li>- Consider providing ID card size table of empirical therapy for interns</li> <li>- Consider matching activity for infection type to treatment</li> </ul>		

Topic: APINCH Therapeutics & Medication Safety		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: Pharmacy
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Understands choice of therapy including indication, contraindication, mechanism of outcome, adverse effectives</li> <li>- Awareness of APINCH medications (antimicrobials, potassium &amp; other electrolytes, Insulin, Narcotics, Chemotherapeutic Agents, Heparin &amp; other anticoagulants)</li> <li>- Understands systems for charting certain therapies (e.g. heparin on paper-base with baseline investigations)</li> <li>- Where to find local policies for high-risk medications</li> <li>- Core therapies include, but are not limited to, anticoagulation, insulins, warfarin titration, continuation of regular home medications, allied health referral</li> <li>- Escalation of therapeutic advice to appropriate persons (e.g. pharmacy, allied health)</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> <li>- Consider practical applications of charting or referring</li> <li>- Consider providing supplemental guide for high-risk medications or referral systems</li> </ul>		

Topic: Arterial Puncture		
ACF Theme: Skills & Procedures	Lecture Series Category: Priority	Specialty: Respiratory Medicine, Critical Care Medicine
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Understands indications, contraindication and risks of arterial puncture</li> <li>- Ability to perform a (modified) Allen's test</li> <li>- Ability to prepare and optimise a patient for arterial puncture</li> <li>- Ability to successfully take arterial blood sample</li> <li>- Ability to troubleshoot technique</li> <li>- Demonstrates aseptic technique</li> <li>- Ability for safe disposal of sharps</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> <li>- Can be competency-based assessment</li> </ul>		

Topic: Asthma		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Respiratory Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to define asthma</li> <li>- Understands classification of asthma</li> <li>- Aware of difference of asthma and chronic obstructive pulmonary disease</li> <li>- Structure approach to assessing a patient in respiratory distress</li> <li>- Ability to instigate initial management of asthma</li> <li>- Understands type of pharmacological therapy used in management of asthma</li> <li>- Understands indication for referral within hospital and red flags</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider providing printed version or lanyard card version of common inhalers</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Basic Life Support		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: Emergency Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Includes both neonatal &amp; paediatric resus</li> <li>- Structured approach to basic life support ('DRS ABCD')</li> <li>- Ability to conduct an A-G assessment</li> <li>- Understand local procedures for escalating care</li> <li>- Initiation of basic management</li> <li>- Knows where to find emergency alarm button and emergency trolley on ward</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider subsidizing formalised courses such as ALS1</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Blood Gas Interpretation		
ACF Theme: Skills & Procedures	Lecture Series Category: Priority	Specialty: Intensive Care Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands clinical differences between arterial and venous blood gas samples</li> <li>- Understands indications for taking a blood gas</li> <li>- Applies structured approach to blood gas interpretation</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Serology interpretation opportunities can improve engagement &amp; understanding</li> </ul>		

Topic: Breaking Bad News		
ACF Theme: Communication	Lecture Series Category: Priority	Specialty: Palliative Care Medicine, Oncology, Social Work
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to appreciate patient perspective to bereavement</li> <li>- Ability to recognise manifestations and responses to loss and bereavement</li> <li>- Ability to show empathy and compassion</li> <li>- Understanding of techniques in delivering bad news</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider supplementing with simulations and role-play</li> <li>- Consider external company that specialises in breaking bad news</li> </ul>		

Topic: Breathlessness		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Respiratory Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Structured approach to assessing breathlessness including acute vs chronic</li> <li>- Considers broad differential diagnoses: <ul style="list-style-type: none"> <li>o Respiratory: asthma, chronic obstructive pulmonary disease, infection, aspiration, pleural effusion, pneumothorax, fibrosis</li> <li>o Cardiovascular: atrial fibrillation, acute coronary syndrome, valvular disease</li> <li>o Other: acidosis, anaemia, anxiety</li> </ul> </li> <li>- Highlight diagnoses not to be missed: acute asthma attack, tension pneumothorax, ACS</li> <li>- Understands principles and interpretation of investigations: bedside tests, serology, plain radiology, advanced imaging</li> <li>- Understands principles of basic management of bronchodilators, oxygen therapy</li> <li>- Understands indication for referral within hospital and red flags</li> <li>- Aware of local policies that affect escalation and management of breathlessness</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Opportunity to expand on radiology interpretation skills</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Cardiac Arrhythmias		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Cardiology
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Structured approach to classifying cardiac arrhythmias</li> <li>- Ability to interpret ECG in a structure approach</li> <li>- Ability to recognise a range of common arrhythmias</li> <li>- Recognition of malignant arrhythmias</li> <li>- Understands basic principles for managing arrhythmias and common therapies</li> <li>- Understands indication for referral within hospital and red flags</li> <li>- Aware of local policies that affect escalation and management of breathlessness</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Opportunity to expand on ECG interpretation skills</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Career Pathways		
ACF Theme: Professionalism	Lecture Series Category: Encouraged	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Knowledge of upcoming recruitment systems for various specialities</li> <li>- Understands requirements to facilitating desired career pathway</li> <li>- Opportunity to ask questions and be connected to desired speciality</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider representatives from various specialities</li> <li>- Can be part of standard teaching schedule or specific night-time event with catering</li> </ul>		

Topic: Chest & Surgical Drains		
ACF Theme: Skills & Procedures	Lecture Series Category: Encouraged	Specialty: General Surgery, Respiratory Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands indications, contraindication and risks of drain insertion</li> <li>- Ability to insert a simple chest drain</li> <li>- Ability to prepare and optimise a patient for chest drain insertion</li> <li>- Ability to troubleshoot technique</li> <li>- Demonstrates aseptic technique</li> <li>- Ability for safe disposal of sharps</li> <li>- Ability to assess chest and surgical drain for signs of infection or concern</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> <li>- Can be competency-based assessment</li> </ul>		

Topic: Chest Pain		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Cardiology
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Structured approach to assessing chest pain</li> <li>- Considers broad differential diagnoses, for example: <ul style="list-style-type: none"> <li>o Cardiovascular: acute coronary syndrome/ischaemic heart disease, aortic dissection</li> <li>o Respiratory: pneumonia, pneumothorax</li> <li>o Musculoskeletal: costochondritis, trauma</li> <li>o Gastrointestinal: gastro-oesophageal reflux disease</li> </ul> </li> <li>- Identifies diagnoses not to be missed: ischaemic heart disease, aortic dissection, tension pneumothorax</li> <li>- Understands principles and interpretation of investigations: bedside tests, blood tests, plain radiology, advanced imaging</li> <li>- Understands principles of basic management of various causes of chest pain</li> <li>- Understands indication for referral within hospital and red flags</li> <li>- Aware of local policies that affect escalation and management of chest pain</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Opportunity to expand on radiology interpretation skills</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Child Abuse		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Emergency Medicine, Paediatric Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to differential between child abuse and neglect</li> <li>- Ability to identify a child at risk</li> <li>- Ability to recognise the difference between accidental and non-accidental injury</li> <li>- Understands local and national policies for child protection and escalation of concerns</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> </ul>		

Topic: Chronic Liver Disease		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Gastroenterology
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understand basic function of the liver</li> <li>- Understands the clinical implications of liver impairment</li> <li>- Ability to apply structured approach for assessment of chronic liver disease</li> <li>- Ability to recognise signs and symptoms of decompensated liver disease</li> <li>- Understands appropriate investigations for work-up of acute liver derangement</li> <li>- Understands appropriate investigations for monitoring chronic liver disease</li> <li>- Able to provide non-pharmacological and pharmacological advice for managing chronic liver disease</li> <li>- Able to consent a patient for albumin infusion</li> <li>- Aware of local policies that affect escalation and management of chronic liver disease</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Death Certification		
ACF Theme: Professionalism	Lecture Series Category: Priority	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands legal responsibilities and implication of death certification</li> <li>- Ability to perform verification of death</li> <li>- Ability to manage suspicious deaths and coroner's cases</li> <li>- Aware of local and national policies regarding death certification</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning including exercises in determining the cause of death</li> </ul>		

Topic: Depression & Anxiety		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Psychiatry
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to conduct a structured mental state examination and basic psychiatric interview</li> <li>- Ability to identify common symptoms of depression and/or anxiety</li> <li>- Ability to consider non-psychiatry differential diagnosis for depression or anxiety</li> <li>- Understand basic principles of management of antidepressants and anxiolytics</li> <li>- Ability to manage acute deteriorations in mental state practicing the least restrictive principle</li> <li>- Understands legal implications of caring for mental health patients</li> <li>- Understands indication for referral within hospital and red flags</li> <li>- Aware of local &amp; national policies that affect escalation and management</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Consider supplementing with simulations or role-play including conducting a mental state examination</li> </ul>		



Topic: Diabetes Mellitus & direct complications		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Endocrinology; Vascular Surgery, Nephrology
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Ability to define diagnosis of diabetes in different patient populations</li> <li>- Ability to differential between Type 1 and Type 2 diabetes mellitus</li> <li>- Understanding of various management strategies of diabetes: diet, oral hypoglycaemic agents, subcutaneous insulins</li> <li>- Ability to perform structured assessment for diabetes</li> <li>- Understands how to manage acute emergencies related to diabetes such as hypoglycaemia, diabetic ketoacidosis, hyperosmolar hyperglycaemic state</li> <li>- Understands common microvascular and macrovascular complications of diabetes</li> <li>- Understand use of investigations to monitor glycaemic control and complications of diabetes</li> <li>- Understands how to prepare a diabetic patient for fasting</li> <li>- Considers central approach for the continuity of care for diabetes</li> <li>- Understands indication for referral within hospital and red flags</li> <li>- Aware of local policies that affect escalation and management</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Consider peer-teaching opportunity</li> <li>- Consider providing printed version of insulins and oral hypoglycaemic agents</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Difficult Patients or Families		
ACF Theme: Communication	Lecture Series Category: Encouraged	Specialty: -
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Ability to appreciate patient perspective to illness</li> <li>- Ability to recognise manifestations and responses to illness</li> <li>- Ability to show empathy and compassion</li> <li>- Understanding of techniques to conflict resolutions and verbal de-escalation</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Consider supplementing with simulations and role-play</li> <li>- Consider external company that specialises in communication skills</li> </ul>		

Topic: Discharge Against Medical Advice		
ACF Theme: Communication	Lecture Series Category: Encouraged	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to appreciate patient perspective to wishing to discharge against medical advice</li> <li>- Ability to recognise manifestations and responses to illness wishing to discharge against medical advice</li> <li>- Ability to show empathy and compassion</li> <li>- Understanding of techniques to conflict resolutions and verbal de-escalation</li> <li>- Understands legal implications for discharge against medical advice</li> <li>- Aware of local policies that affect discharge against medical advice</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> <li>- Consider supplementing with simulations and role-play</li> <li>- Consider external company that specialises in communication skills</li> <li>- Consider external representatives from medical defence organisations</li> </ul>		

Topic: Documentation		
ACF Theme: Communication	Lecture Series Category: Priority	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to gather, synthesise and document information in the medical record in an accurate and timely fashion</li> <li>- Knowledge of local policies regarding requirements for documentation</li> <li>- Understands legal implications of documentation including privacy and confidentiality</li> <li>- Ability to use appropriate structure and content for documentation</li> <li>- Ensures legibility of hand-written documentation</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> <li>- Consider supplementing with simulations and role-play</li> <li>- Consider external representatives from medical defence organisations</li> </ul>		

Topic: ECG Interpretation		
ACF Theme: Skills & Procedures	Lecture Series Category: Priority	Specialty: Cardiology, Emergency Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Identifies all parts of an ECG</li> <li>- Accurately identifies common atrial tachyarrhythmias and their management <ul style="list-style-type: none"> <li>o Atrial Fibrillation</li> <li>o Atrial flutter</li> <li>o SVT</li> </ul> </li> <li>- Understands the indications for cardioversion versus anticoagulation</li> <li>- Accurately identifies common Ventricular tachyarrhythmias <ul style="list-style-type: none"> <li>o VEBs</li> <li>o NSVT</li> </ul> </li> <li>- Understands prophylaxis of Ventricular tachyarrhythmias ie electrolyte management and beta blockade</li> <li>- Accurately identifies common bradyarrhythmia <ul style="list-style-type: none"> <li>o Heart block</li> <li>o Bundle branch block</li> <li>o Junctional rhythm</li> <li>o Ventricular escape</li> </ul> </li> <li>- Understands which bradyarrhythmia's require treatment</li> <li>- Understands basic concepts of a temporary pacing wire</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider supplementing learning by splitting into small groups to interpret ECGs</li> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> </ul>		

Topic: End of Life Care		
ACF Theme: Clinical Management	Lecture Series Category: Encouraged	Specialty: Palliative Care
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Common terminal conditions requiring palliative care input</li> <li>- Introduction to spectrum of palliative care</li> <li>- Understands local referral pathways</li> <li>- Knowledge of end of care prescribing and knows how to chart same</li> <li>- Non-pharmacological support for patient and families</li> <li>- Understanding of legislation regarding Enduring Power of Attorney &amp; Advanced Care Planning</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> </ul>		

Topic: End of Life Communication		
ACF Theme: Communication	Lecture Series Category: Encouraged	Specialty: Palliative Care
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to appreciate patient perspective to illness</li> <li>- Ability to recognise manifestations and responses to illness</li> <li>- Ability to show empathy and compassion</li> <li>- Understanding of techniques to breaking bad news</li> <li>- Ability to explain expected journey of patients in end of life care</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider supplementing with simulations and role-play</li> <li>- Consider external company that specialises in communication skills</li> </ul>		

Topic: Fractures		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Emergency Medicine, Orthopaedics, Neurosurgery
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to conduct a structure assessment of a patient with suspected fracture</li> <li>- Ability to classify and recognise common fractures: forearm fracture, neck of femur fracture, ankle fractures, supracondylar fractures</li> <li>- Ability to interpret basic imaging to identify fracture</li> <li>- Recognises high-risk fractures that require urgent management: cervical spine fractures, pelvis fractures, unstable spinal fractures, fractures with neurovascular compromise</li> <li>- Understands principles of basic management of analgesia, immobilisation</li> <li>- Understands when to refer for operative management</li> <li>- Aware of local policies that affect escalation and management of a fracture</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Opportunity to expand on radiology interpretation skills</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Gastrointestinal Bleeding		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Gastroenterology
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to conduct a structure assessment for gastrointestinal bleeding</li> <li>- Recognise the signs and symptoms of a deteriorating patient including haematemesis, per rectal bleeding, melaena</li> <li>- Ability to identify high risk patient populations with gastrointestinal bleeding and risk factors</li> <li>- Understands causes of gastrointestinal bleeding in relation to their symptom</li> <li>- Ability to manage and monitor a patient with gastrointestinal bleeding</li> <li>- Understands principles of basic management of proton pump inhibitors</li> <li>- Understands indication for blood products</li> <li>- Understands indications for referral within hospital and red flags</li> <li>- Aware of local policies that affect escalation and management of gastrointestinal bleeding</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Serology interpretation opportunities can improve engagement &amp; understanding</li> <li>- Consider decision-based scenarios for JMOs to discuss management options</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Healthcare Resources		
ACF Theme: Professionalism	Lecture Series Category: Encouraged	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Identifies the potential impact of resource constraint on patient care</li> <li>- Uses finite healthcare resources wisely to achieve the best outcomes</li> <li>- Works in ways that acknowledge the complexities and competing demands of the healthcare system</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> <li>- Consider decision-based scenarios for JMOs to discuss management options</li> </ul>		

Topic: Hypo/Hypertension		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Cardiology, General Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands basic physiology of blood pressure regulation</li> <li>- Ability to conduct a structure assessment for blood pressure derangement</li> <li>- Recognise the signs and symptoms of a deteriorating patient</li> <li>- Understands causes of acute blood pressure changes</li> <li>- Understands when and how to apply structured approach to work-up for blood pressure derangements</li> <li>- Ability manage and monitor a patient with blood pressure derangements</li> <li>- Understands principles of basic management of antihypertensives, intravenous fluid resuscitation, vasopressors</li> <li>- Understands indication for blood products &amp; alternative intravenous fluids</li> <li>- Understands indications for referral within hospital and red flags</li> <li>- Aware of local policies that affect escalation and management of acute deterioration</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider decision-based scenarios for JMOs to discuss management options</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Infection Control		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: Infectious Diseases
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Hand hygiene</li> <li>- Understands aseptic techniques</li> <li>- Understands personal protective equipment <ul style="list-style-type: none"> <li>o How to use</li> <li>o When to apply</li> <li>o How to safely don and doff</li> </ul> </li> <li>- Understands local guidelines and processes for infection control</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Can be made into practical session for practicing learning objectives</li> </ul>		

Topic: Informed Consent		
ACF Theme: Professionalism	Lecture Series Category: Priority	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands procedure or treatment proposed to explain to patient</li> <li>- Knowledge of local and national policies regarding informed consent</li> <li>- Understands legal implications of informed consent</li> <li>- Ability to use appropriate structure and content for documentation</li> <li>- Ensures legibility of hand-written documentation</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> <li>- Consider supplementing with simulations and role-play</li> <li>- Consider external representatives from medical defence organisations</li> </ul>		

Topic: Intracerebral Events		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Neurology, Neurosurgery
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Appreciates the spectrum of intracerebral events and the acuity of presentation</li> <li>- Ability to conduct a structured assessment of a patient with new focal neurology</li> <li>- Ability to calculate a Glasgow Coma Score</li> <li>- Recognise the signs and symptoms of a deteriorating patient</li> <li>- Understands causes of intracerebral events</li> <li>- Understands role and indications for advanced imaging in consultation with a senior</li> <li>- Understands indications for referral within hospital and red flags</li> <li>- Knows how to activate a FAST call or equivalent within the hospital</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider decision-based scenarios for JMOs to discuss management options</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Intravenous Cannulation		
ACF Theme: Skills & Procedures	Lecture Series Category: Priority	Specialty: Vascular Access CNC
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands indications, contraindication and risks of intravenous cannulation</li> <li>- Ability to prepare and optimise a patient for intravenous cannulation</li> <li>- Ability to successfully insert a peripheral intravenous cannula</li> <li>- Ability to troubleshoot technique</li> <li>- Demonstrates aseptic technique</li> <li>- Ability for safe disposal of sharps</li> <li>- Ability to assess a peripheral intravenous cannula for signs of complications</li> <li>- Understands local systems for escalating issues or concerns for patients with difficult venous access</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> </ul>		

Topic: Intravenous Fluids & Electrolytes		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: General Medicine and/or General Surgery
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Identifies indications for and risks of fluid and electrolyte therapies</li> <li>- Understands types of intravenous fluids</li> <li>- Understands clinical consequence of instigating fluid and electrolyte therapies</li> <li>- Ability to individualise therapy based on patient condition</li> <li>- Ensure appropriate monitoring of interventions</li> <li>- How to conduct a fluid balance assessment</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Consider providing standard ordering guide for electrolyte orders</li> </ul>		

Topic: JMO Research		
ACF Theme: Professionalism	Lecture Series Category: Encouraged	Specialty: -
Learning Objectives:		
<ul style="list-style-type: none"> <li>- Introduction to research process and if available, research projects at LHD site</li> <li>- Opportunity to practice critically appraising evidence and summarise implications for further practice</li> <li>- Knows how to gain either Ethics approval or Low and Negligible Risk approval in local area</li> </ul>		
Notes:		
<ul style="list-style-type: none"> <li>- Consider mini conference, abstract presentations, research skills to showcase local research and allow chance to practice for interns</li> </ul>		

Topic: Lumbar Puncture		
ACF Theme: Skills & Procedures	Lecture Series Category: Encouraged	Specialty: Emergency Medicine, Neurology, Neurosurgery
Learning Objectives:		
<ul style="list-style-type: none"> <li>- Understands indications, contraindications and risks of lumbar puncture</li> <li>- Ability to prepare and optimise a patient for lumbar puncture</li> <li>- Ability to successfully perform lumbar puncture</li> <li>- Ability to measure and interpret cerebrospinal fluid opening pressure</li> <li>- Demonstrates aseptic technique</li> <li>- Ability to troubleshoot technique</li> <li>- Ability for safe disposal of sharps</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
Notes:		
<ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> </ul>		

Topic: Mandatory Reporting		
ACF Theme: Professionalism	Lecture Series Category: Priority	Specialty: -
Learning Objectives:		
<ul style="list-style-type: none"> <li>- Understands legal responsibility for mandatory reporting</li> <li>- Knows what conditions or concerns that require mandatory reporting including child abuse, and practitioner in trouble</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
Notes:		
<ul style="list-style-type: none"> <li>- Consider external representatives from medical defence organisations</li> </ul>		



Topic: Medicine & the Law		
ACF Theme: Professionalism	Lecture Series Category: Priority	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands legal responsibility for a range of common medicolegal topics: <ul style="list-style-type: none"> <li>o Mature minor</li> <li>o Consent</li> <li>o Privacy &amp; confidentiality</li> </ul> </li> <li>- Understands documentation as a form of legal documentation</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider external representatives from medical defence organisations</li> </ul>		

Topic: Mental Health Assessment & Psychosis		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Psychiatry
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to conduct a structured mental state examination and basic psychiatric interview</li> <li>- Ability to identify common symptoms of psychosis</li> <li>- Ability to consider non-psychiatry differential diagnosis for psychosis</li> <li>- Understand basic principles of management of antipsychotics</li> <li>- Ability to manage acute deteriorations in mental state practicing the least restrictive principle</li> <li>- Understands legal implications of caring for mental health patients including completing a Schedule 1 form</li> <li>- Understands indication for referral within hospital and red flags</li> <li>- Aware of local &amp; national policies that affect escalation and management</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Consider supplementing with simulations or role-play including conducting a mental state examination</li> </ul>		

Topic: Nasogastric Tube Insertion		
ACF Theme: Skills & Procedures	Lecture Series Category: Priority	Specialty: Critical Care Medicine, General Surgery
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands indications, contraindications and risks of nasogastric tube insertion</li> <li>- Ability to prepare and optimise a patient for nasogastric tube insertion</li> <li>- Ability to successfully perform nasogastric tube insertion</li> <li>- Ability to troubleshoot technique</li> <li>- Identifies methods to confirm correct placement of nasogastric placement</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> </ul>		

Topic: Obstetrics & Gynaecology Emergencies		
ACF Theme: Clinical Management	Lecture Series Category: Encouraged	Specialty: Obstetrics & Gynaecology
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to conduct a structure assessment for an obstetric patient</li> <li>- Understands sensitivities of pelvic examination &amp; how to conduct an examination</li> <li>- Recognise the signs and symptoms of concern in an obstetric patient (e.g. bleeding in early pregnancy, foetal distress, preeclampsia)</li> <li>- Recognise the signs and symptoms of concerns for gynaecological emergencies (e.g. ovarian torsion)</li> <li>- Understands how to apply structured approach to work-up</li> <li>- Understands role of advanced imaging for this patient population</li> <li>- Knows how to activate local management for post-partum haemorrhage</li> <li>- Understands indications for referral within hospital and red flags</li> <li>- Aware of local policies that affect escalation and community referral for obstetric patients</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider decision-based scenarios for JMOs to discuss management options</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Oncology		
ACF Theme: Clinical Management	Lecture Series Category: Encouraged	Specialty: Oncology
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Develops a basic understanding of the staging, treatment, management and prognosis of common cancers (Breast, Lung, Bowel, prostate, melanoma)</li> <li>- Ability to recognise and manage febrile neutropenia</li> <li>- Ability to identify and treat common complications such as malignant hypercalcaemia, Treatment related diarrhoea, Pneumonitis, mucositis</li> <li>- Understands the role of medical oncology versus radiation oncology.</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Learning may be supplemented through case-based discussion</li> <li>- Supplement learning with visual representation of lab results, diagnostic imaging and clinical signs</li> <li>- Consider providing local guidelines for febrile neutropenia</li> </ul>		

Topic: Open Disclosure		
ACF Theme: Communication	Lecture Series Category: Priority	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understand the importance of open disclosure and support for patients and families after an adverse event</li> <li>- Develop communication skills to enable support for patients and carers</li> <li>- Understand the process for patients and families to file a complaint</li> <li>- Ability to use local protocols to respond to complaints</li> <li>- Develops skills and behaviours such as good communication to prevent complaints</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Supplement learning with simulations and role plays</li> <li>- Consider use of demonstrative videos</li> <li>- Consider external representatives from medical defence organisations</li> </ul>		

Topic: Ophthalmology		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Ophthalmology, Emergency Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to complete an assessment of visual fields and visual acuity</li> <li>- Ability to use a slit lamp competently</li> <li>- Recognises and manages common ophthalmological emergencies <ul style="list-style-type: none"> <li>o Penetrating eye injury/ruptured globe</li> <li>o Chemical/flash burns</li> <li>o Sudden vision loss</li> <li>o Foreign body</li> </ul> </li> <li>- Ability to remove corneal foreign body</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider supplementing learning with images to demonstrate clinical signs</li> <li>- Practical session for slit lamp competency</li> </ul>		

Topic: Overdose & Withdrawal		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Emergency Medicine, Clinical Pharmacology, Drug and Alcohol
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to identify common toxidromes associated with drug use e.g. serotonergic, anticholinergic, opioid, cholinergic, sympathomimetic</li> <li>- Knowledge of basic management of overdose associated with: <ul style="list-style-type: none"> <li>o Sedatives (e.g. opioids, benzodiazepines)</li> <li>o Alcohol</li> <li>o Paracetamol</li> </ul> </li> <li>- Ability to identify common withdrawal syndromes and knowledge of their management/prevention: <ul style="list-style-type: none"> <li>o Sedatives (e.g. opioids, benzodiazepines)</li> <li>o Alcohol (including use of alcohol withdrawal scales)</li> <li>o Nicotine</li> </ul> </li> <li>- Knowledge of local protocols and referral pathways for patients affected by or with a history of alcohol or recreational drug use</li> <li>- Aware of Poisons Information Hotline number</li> <li>- Understands indications for referral within hospital and red flags</li> <li>- Aware of local policies that affect overdose &amp; withdrawal</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider case-based learning and discussion to contextualise learning</li> </ul>		

Topic: Pain Management		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: General, Palliative Care, Rehabilitation Medicine, Anaesthetics
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands choice of therapy including classes, indication, contraindication, mechanism of outcome, adverse effects</li> <li>- Use of multi-modal approach to analgesia</li> <li>- Appropriate use of preventative analgesia to match expected pain post-operatively</li> <li>- Use of non-pharmacological therapies for pain management</li> <li>- Understands indications for referral within hospital and red flags</li> <li>- Aware of local policies that affect escalation for pain management</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> <li>- Consider complex case discussion to expand on medical school foundation knowledge</li> </ul>		

Topic: Pathology Tests		
ACF Theme: Clinical Management	Lecture Series Category: Encouraged	Specialty: Pathology, Quality & Safety Committee
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Able to use local systems for ordering tests</li> <li>- Understands rational test ordering, considers costs and clinical benefit to patient</li> <li>- Aware of common order sets and their interpretation. For example, vasculitis/autoimmune screen, coagulopathic screen, haemolysis screen, hepatitis screen, atypical pneumonia serology</li> <li>- Basic interpretation of common tests and when to be concerned. For example, full blood count, renal and electrolyte profile, coagulation profile, liver function tests</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> <li>- Consider supplementing with lanyard card for common blood tests, tube colour, order of draw and special instructions</li> <li>- Consider provided hospital accepted guides for common order sets listed above</li> </ul>		

Topic: Patient Blood Management		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: Haematology
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands indications, contraindications and risks for blood products</li> <li>- Knows range of commonly prescribed blood products including packed red blood cells, platelets, albumin, fresh frozen plasma</li> <li>- Ability to develop and evaluate an individualised patient management plan for blood products</li> <li>- Able to consent a patient for a blood product</li> <li>- Aware how to activate the Massive Transfusion Protocol</li> <li>- Knows how to accurately take a group and hold and check validity of sample in high risk patients</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> <li>- MOs required to complete BloodSafe eLearning</li> </ul>		

Topic: Patient Privacy		
ACF Theme: Professionalism	Lecture Series Category: Priority	Specialty: -
Learning Objectives: <ul style="list-style-type: none"> <li>- Understand the importance &amp; respects patient privacy and confidentiality</li> <li>- Understands the legal implications of patient privacy and confidentiality</li> <li>- Understands where they can direct concerns or enquires for sharing patient information</li> </ul>		
Notes: <ul style="list-style-type: none"> <li>- Consider external representatives from medical defence organisations</li> </ul>		

Topic: Plastering		
ACF Theme: Skills & Procedures	Lecture Series Category: Encouraged	Specialty: Emergency Medicine, Orthopaedics
Learning Objectives: <ul style="list-style-type: none"> <li>- Understands indications, contraindications and common complications of plastering</li> <li>- Understands different types of plaster casts/slabs and their indications: short and long arm slabs, scaphoid cast, thumb spica, short and long leg backslabs</li> <li>- Ability to identify common complications associated with plaster casts/slabs</li> <li>- Ability to effectively apply different types of plaster casts/slabs listed above</li> <li>- Ability to prepare and optimise a patient for application of a plaster cast/slab</li> <li>- Ability to remove plaster casts/slabs</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
Notes: <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> </ul>		

Topic: Pleural & Ascitic Taps		
ACF Theme: Skills & Procedures	Lecture Series Category: Encouraged	Specialty: Respiratory, Gastroenterology, Oncology, Interventional Radiology
Learning Objectives: <ul style="list-style-type: none"> <li>- Understands indications, contraindications and risks of drain insertion</li> <li>- Ability to consent a patient for a tap including rationale, procedure and risks</li> <li>- Ability to adequately prepare the patient and equipment</li> <li>- Ability to complete a simple pleural or ascitic tap</li> <li>- Demonstrates aseptic technique</li> <li>- Ability to complete post procedural care and troubleshooting</li> <li>- Ability for safe disposal of sharps</li> <li>- Ability to identify when radiological guidance may be appropriate</li> <li>- Interpret diagnostic results: Light's criteria, serum ascites albumin gradient</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
Notes: <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> <li>- Can be competency-based assessment</li> <li>- Consider supplementing learning with imaging and visual lab results</li> </ul>		

Topic: Professional Development		
ACF Theme: Professionalism	Lecture Series Category: Encouraged	Specialty: -
Learning Objectives:		
<ul style="list-style-type: none"> <li>- Provide opportunities to improve professional development of JMOs including interview techniques, CV writing</li> <li>- Knows how to access mentorships within medicine</li> </ul>		
Notes:		
<ul style="list-style-type: none"> <li>- Can be part of standard teaching schedule or specific night-time event with catering</li> </ul>		

Topic: Radiology Interpretation (CXR, AXR, Lines)		
ACF Theme: Skills & Procedures	Lecture Series Category: Priority	Specialty: Radiology
Learning Objectives:		
<ul style="list-style-type: none"> <li>- Understand the indications for ordering radiological investigations</li> <li>- Ability to systematically interpret basic radiological studies such as chest and abdominal x-rays</li> <li>- Ability to identify radiological signs associated with common and life-threatening conditions on chest and abdominal x-rays</li> <li>- Ability to identify correct placement of common lines (e.g. central venous access devices, nasogastric tubes) on chest and abdominal x-rays</li> </ul>		
Notes:		
<ul style="list-style-type: none"> <li>- Consider case-based teaching to enrich and contextualise learning</li> </ul>		

Topic: Referral & Consultation		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: -
Learning Objectives:		
<ul style="list-style-type: none"> <li>- Understand the indications for arranging a referral or consultation</li> <li>- Understand relevant information required for each major specialty</li> <li>- Ability to communicate reason for referral or consultation</li> <li>- Ability to work collaboratively within a multidisciplinary team</li> </ul>		
Notes:		
<ul style="list-style-type: none"> <li>- Consider representatives from various specialities and allied health for specific advice</li> <li>- Consider supplementation with written guide for local referral and consultation process</li> </ul>		

Topic: Self-Directed Learning		
ACF Theme: Professionalism	Lecture Series Category: Encouraged	Specialty: -
Learning Objectives:		
<ul style="list-style-type: none"> <li>- Able to complete mandatory self-directed learning as prescribed by NSW Health</li> <li>- Ability to consider formalised courses within medicine to upskill the workforce</li> </ul>		
Notes:		
<ul style="list-style-type: none"> <li>- Consider JMO M&amp;M meeting to allow for self-directed and self-reflective activity</li> </ul>		

Topic: Sepsis		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: Emergency Medicine, Infectious Disease Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to conduct a structure assessment for a patient with suspected sepsis</li> <li>- Recognise the signs and symptoms of a deteriorating patient with sepsis and septic shock</li> <li>- Understands sources of sepsis and their associated clinical signs and symptoms</li> <li>- Ability to identify and order appropriate investigations in the work up of a patient with suspected sepsis</li> <li>- Understands local sepsis pathways and importance of early administration of appropriate antimicrobial therapy</li> <li>- Ability to manage and monitor a patient with sepsis or septic shock</li> <li>- Understands indications for referral within hospital and red flags</li> <li>- Aware of local policies that affect escalation for sepsis</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Consider supplementing with simulations</li> <li>- Consider providing ID card size table of empirical therapy for interns</li> <li>- Consider matching activity for infection type to treatment</li> </ul>		

Topic: Sick Child		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Emergency Medicine, Paediatric Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Knowledge for a range of common paediatric presentations</li> <li>- Ability to conduct a structure assessment in a paediatric patient including developmental history, assessment of hydration, nutrition and growth</li> <li>- Ability to recognise a sick child and common causes</li> <li>- Ability to identify a child at risk of deteriorating</li> <li>- Understands principles of basic management of trial of fluids, simple analgesia, bronchodilators, steroids</li> <li>- Understands when to refer a paediatric patient</li> <li>- Aware of local policies that affect escalation and care of paediatric patients</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Simulations		
ACF Theme: Skills & Procedures	Lecture Series Category: Encouraged	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to practice scenarios in a safe simulated environment</li> <li>- Provide personalised and general feedback on performance</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Can be conducted in a simulations lab or on the ward or tutorial room with actors</li> <li>- Consider simulations competition for teams competing in range of presentations, assessment and clinical skills</li> </ul>		

Topic: Subacute Care		
ACF Theme: Clinical Management	Lecture Series Category: Encouraged	Specialty: Geriatric Medicine, Rehabilitation Medicine, Palliative Care
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Identifies patients suitable for &amp; refers to aged care, rehabilitation or palliative care programs</li> <li>- Identifies common risks in older &amp; complex patients e.g. falls risk, delirium &amp; cognitive decline</li> <li>- Understands local pathways for referral or patients to aged care, rehabilitation and palliative care services</li> <li>- Understands the central role of the multidisciplinary team in aged care, rehabilitation and palliative care services</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Substance Abuse & Dependence		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Drug and Alcohol, Psychiatry
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Ability to take a detailed drug and social history</li> <li>- Ability to identify signs and symptoms associated with drug use, dependence and withdrawal and knowledge of their management/prevention</li> <li>- Ability to assess a patient's willingness and motivation to reduce or cease drug use</li> <li>- Ability to counsel patients on drug use reduction or cessation and appropriately prescribe aids to assist with this</li> <li>- Knowledge of local protocols and referral pathways for patients affected by or with a history of alcohol or recreational drug use and/or dependence</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Consider use of workshops and role play</li> </ul>		



Topic: Surgery & Perioperative Care		
ACF Theme: Clinical Management	Lecture Series Category: Priority	Specialty: Surgery, Anaesthetics
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Understands pre-operative principles: <ul style="list-style-type: none"> <li>o Assessment for anaesthesia – general vs local, ASA score</li> <li>o Medications and surgery – anticoagulants, oral hypoglycaemics and insulin</li> <li>o Principles of fasting and appropriate supplementation whilst fasted</li> <li>o Ordering of appropriate baseline investigations including baseline bloods, group and hold, ECG</li> <li>o Specific preparation (e.g. bowel prep for colonoscopy)</li> </ul> </li> <li>- Understands post-operative principles: <ul style="list-style-type: none"> <li>o Ordering post-operative analgesia &amp; investigations</li> <li>o Understanding local systems for post-operative PCAs or LA catheters</li> <li>o Preparing comprehensive post-operative plans for managing after hours</li> <li>o Ensuring restarting of medications appropriately after a procedure</li> <li>o Considering of ongoing intravenous fluids or blood products where appropriate</li> </ul> </li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases for common errors</li> <li>- Consider simulation for preoperative assessment in small groups</li> </ul>		

Topic: Suturing		
ACF Theme: Skills & Procedures	Lecture Series Category: Encouraged	Specialty: Emergency Medicine, Surgery
<p>Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Understands indications, contraindications and risks of suturing</li> <li>- Ability to consent a patient for suturing</li> <li>- Ability to adequately prepare the patient and equipment</li> <li>- Ability to complete a simple interrupted suture</li> <li>- Demonstrates aseptic technique</li> <li>- Ability to complete post procedural care and troubleshooting</li> <li>- Ability for safe disposal of sharps</li> <li>- Ability to identify when referral for complex wounds requiring washout under anaesthesia and/or surgical involvement</li> <li>- Understands when to consider antibiotic prophylaxis and tetanus booster</li> <li>- Understands local systems for escalating issues or concerns</li> </ul>		
<p>Notes:</p> <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> </ul>		

Topic: Syncope & Falls		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Priority	Specialty: General Medicine, Geriatric Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understand common conditions that cause syncope</li> <li>- Understand common conditions and risk factors that precipitate falls</li> <li>- Ability to undertake emergency management of syncope/fall</li> <li>- Ability to take a comprehensive history from a patient following syncope/fall</li> <li>- Ability to conduct a thorough examination of a patient following syncope/fall</li> <li>- Understand potential complications following syncope/fall</li> <li>- Understanding of appropriate investigations and treatments following syncope/fall</li> <li>- Understanding of falls prevention and need to record details of in-hospital falls</li> <li>- Understands when to refer a patient for further review</li> <li>- Aware of local policies that affect escalation after a fall</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Discussion can be improved with case-based learning or M&amp;M cases</li> <li>- Can be supplemented with simulations</li> </ul>		

Topic: Teaching		
ACF Theme: Professionalism	Lecture Series Category: Encouraged	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Provide opportunities for JMOs as teachers</li> <li>- Aware of techniques to facilitate teaching for medical students</li> <li>- Identifies opportunities for teaching at bedside, structured teaching, peer teaching</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider role-play as means of practicing teaching techniques</li> <li>- Consider subsidized formal courses like Teaching On The Run</li> </ul>		

Topic: Team Dynamics		
ACF Theme: Communication	Lecture Series Category: Encouraged	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Respects roles and responsibilities of multidisciplinary team members</li> <li>- Understands use of graded assertiveness when appropriate</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Provide contact information for specific personnel for escalation or wellbeing concerns</li> </ul>		

Topic: The Award & Payroll		
ACF Theme: Professionalism	Lecture Series Category: Priority	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Knowledge of how to access the relevant state award</li> <li>- Ability to interpret relevant state award and the implications for junior doctors regarding entitlements to pay, leave and fair hours of work</li> <li>- Knowledge of how to escalate concerns regarding award and payroll</li> <li>- Ability to interpret payslips</li> <li>- Knowledge of how to apply for various leave entitlements</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider representative from health service pay office</li> <li>- Consider representative from Australian Salaried Medical Officers Federation</li> </ul>		

Topic: Trauma		
ACF Theme: Clinical Symptoms, Problems & Conditions	Lecture Series Category: Encouraged	Specialty: Emergency Medicine, Orthopaedics, General Surgery
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Ability to conduct a structure assessment for a trauma patient including MIST, AMPLE, A-G assessment</li> <li>- Ability to conduct a primary, secondary and tertiary survey</li> <li>- Ability to calculate a Glasgow Coma Score</li> <li>- Recognise the signs and symptoms of a deteriorating patient</li> <li>- Understands when and how to apply structured approach to work-up</li> <li>- Understands role of imaging such as trauma series plain film radiology, FAST scan, Computed Tomography</li> <li>- Ability manage and monitor a patient following a trauma</li> <li>- Understands principles of basic management of basic and advanced life support</li> <li>- Understands indication for blood products &amp; alternative intravenous fluids</li> <li>- Understands indications for referral and/or transfer within hospital and red flags</li> <li>- Aware of local policies that affect escalation and management of trauma</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider decision-based scenarios for JMOs to discuss management options</li> <li>- Consider supplementing with simulations</li> </ul>		

Topic: Ultrasound Blood Access		
ACF Theme: Skills & Procedures	Lecture Series Category: Encouraged	Specialty: Venous Access CNC, Critical Care Medicine
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands indications, contraindications, and risks of ultrasound-guided intravenous cannulation</li> <li>- Ability to prepare and optimise a patient for ultrasound-guided intravenous cannulation</li> <li>- Ability to use ultrasound to localise relevant structures (veins, arteries)</li> <li>- Ability to use ultrasound to track the course of a vein and select an appropriate vein</li> <li>- Ability to use ultrasound to successfully insert a peripheral intravenous cannula</li> <li>- Ability to troubleshoot technique</li> <li>- Demonstrates aseptic technique</li> <li>- Demonstrates safe disposal of sharps</li> <li>- Ability to assess a peripheral intravenous cannula for signs of complications</li> <li>- Understands local systems for escalating issues or concerns for patients with difficult venous access</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> </ul>		

Topic: Urinary Catheterisation		
ACF Theme: Skills & Procedures	Lecture Series Category: Priority	Specialty: General Surgery
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands indications, contraindication and risks of urinary catheterisation</li> <li>- Ability to prepare and optimise a patient for urinary catheterisation</li> <li>- Ability to successfully perform insertion of an indwelling catheter</li> <li>- Ability to troubleshoot technique</li> <li>- Demonstrates aseptic technique</li> <li>- Understands local systems for escalating issues or concerns for patients with difficult urinary catheterisation</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> </ul>		

Topic: Venepuncture		
ACF Theme: Skills & Procedures	Lecture Series Category: Priority	Specialty: Venous Access CNC
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands indications, contraindication and risks of venepuncture</li> <li>- Ability to prepare and optimise a patient for venepuncture</li> <li>- Ability to successfully perform venepuncture for venous blood sampling</li> <li>- Ability to troubleshoot technique</li> <li>- Demonstrates aseptic technique</li> <li>- Ability for safe disposal of sharps</li> <li>- Understands local systems for escalating issues or concerns for patients with difficult venous access</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Practical session is vital to competency of skills</li> </ul>		

Topic: Wellbeing & Self-Care		
ACF Theme: Professionalism	Lecture Series Category: Priority	Specialty: -
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Aware of and optimise personal health and wellbeing</li> <li>- Aware of techniques to mitigate personal health risks such as fatigue, stress</li> <li>- Aware of local and state support services available to JMOs</li> <li>- Access to local polices regarding ADO, leave and supports</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- Consider subsidising Mental Health First Aid for JMOs</li> <li>- Consider regular debrief/feedback sessions to allow opportunities for identifying concerns</li> <li>- Consider linking with local RMOA and peer-network to improve JMO wellbeing</li> </ul>		

Topic: Wound Care		
ACF Theme: Skills & Procedures	Lecture Series Category: Encouraged	Specialty: Wound CNC, General Surgery
<b>Learning Objectives:</b> <ul style="list-style-type: none"> <li>- Understands principles of wound care</li> <li>- Aware of range of common dressings &amp; closure techniques</li> <li>- Ability to assess wound for signs of infection, breakdown, pressure areas</li> <li>- Aware when to refer for second opinion</li> <li>- Ability to manage and monitor wounds on the wards</li> <li>- Ability to troubleshoot common complications of wound care</li> <li>- Understands local systems for escalating issues for wound care</li> </ul>		
<b>Notes:</b> <ul style="list-style-type: none"> <li>- May benefit from providing local resources available for wound care (wound care staffing, common dressings)</li> </ul>		

## Appendix 1: DPET Focus Group Questions

1. How do you find the teaching program provided to interns?
  - a. What works? What does not work?
2. What barriers exist when developing intern teaching?
3. Are there any unique teaching sessions in your hospital for intern teaching? If so, what are they?
4. If you had to pick 3 topics that you think are important for interns to learn in the beginning of the year, what would you pick?
5. In terms of the 2010 guide for teaching in the state, what topics do you think are core topics that interns should cover in their intern year?
6. As pairs, please place all the teaching topics from the 2010 guide in order from most important topics to have during internship to least important topics during internship.
7. Do you know about the HETI webinar series?
8. Are JMO at your hospital attending these sessions?
  - a. If yes, what do they like about it?
  - b. If no, what are some barriers to why they are not participating in these?
9. Is there any further comments regarding the teaching of interns you wish to contribute?

## Appendix 2: PGY1 Focus Group Questions

Please note, PGY2 Focus Group Questions were the same but adapt to discuss their internship experience.

1. Which term are you on?
2. How have you found the teaching so far?
  - a. What works? What does not work?
3. What topics do you hope to cover in your intern teaching?
4. What experiences on the ward/in clinical practice do you wish you had a teaching session prior to undertaking with a patient? This may include afterhours shifts.
5. If you had to pick 3 topics that you think are important for interns to learn in the beginning of the year, what would you pick?
6. In terms of the 2010 guide for teaching in the state, which topics do you think are core topics that interns should cover in their intern year?
7. As pairs, please place all the teaching topics from the 2010 guide in order from most important topics to have during internship to least important topics during internship.
8. Do you know about the HETI webinar series?
9. Are you attending these sessions?
  - a. If yes, what do they like about it?
  - b. If no, what are some barriers to why they are not participating in these?
10. Is there any further comments regarding the teaching of interns you wish to contribute?

## Health Education and Training Institute

### Postal address

HETI Locked Bag 2030  
St Leonards NSW 1590

### Street address

Level 2, 1 Reserve Road  
St Leonards  
NSW 2065  
T: 02 9844 6551  
F: 02 9844 6544  
E: [heti-info@health.nsw.gov.au](mailto:heti-info@health.nsw.gov.au)