

## **ELHT Pre-registration pharmacist trainee tutorial descriptions (in date order)**

### **Calculations 1**

*Topics covered:* Dose and dosage regimens, dosage and unit conversions, IV drugs (including displacement values), infusion rates.

*Content:* Presentation explaining the format of the GPhC calculations paper and how to use the answer sheet. Explanations and demonstrations to improve your understanding of intravenous therapy with worked examples. 40 calculation questions for you to try your hand at, with help on the day if you get stuck and worked answers for you to take away with you). Bring a pencil – so that you can rub out your answers and have another go later on. Make sure you bring a calculator with you.

*Date:* Wednesday 12<sup>th</sup> September 2018, 9am to 12:30pm

*Venue:* Lounge bar, Mackenzie centre at Burnley General Teaching Hospital

### **Calculations 2**

*Topics covered:* Concentrations (e.g. expressed at w/v, % or 1 in x), dilutions

*Content:* During this tutorial we'll show you how to recognise and undertake those tricky alligations and the more complex extemporaneous manufacturing calculations involving changing the concentration of creams and ointments by adding more active ingredient to a ready-made cream, as well as the calculations involved in making solutions and dilutions for paediatric preparations. As with all the calculations tutorials you will be given 40 questions to try (with assistance on the day and worked answers to take away with you). Make sure you bring a calculator with you.

*Date:* Wednesday 12<sup>th</sup> September 2018, 12:30pm to 5pm

*Venue:* Lounge bar, Mackenzie centre, Burnley General Teaching Hospital

### **Endocrine system 1**

*Topics covered:* Diabetes type 1 and diabetes type 2

*Content:* Learn about the different types of insulin and their delivery devices as well as the oral hypoglycaemics; both groups of drugs appear on the GPhC's 'high risk drugs' list. You will also learn about medical emergencies associated with diabetes and how to differentiate between hypoglycaemia and hyperglycaemia. There will be assessment-style questions for you to have a go at.

*Date:* Wednesday 10<sup>th</sup> October 2018, 9am to 12:30pm

*Venue:* Lounge bar, Mackenzie centre, Burnley General Teaching Hospital

### **Endocrine system 2**

*Topics covered:* Corticosteroids, osteoporosis, thyroid disorders

*Content:* Indications, side effects and relative potencies of corticosteroids will be discussed. Assessing who is at risk of osteoporosis, as well as the available drugs to prevent and treat osteoporosis and the signs and symptoms of thyroid disorders and drugs that may be causing thyroid disorders will also be covered. There will be plenty of assessment-style questions to have a go at.

*Date:* Wednesday 10<sup>th</sup> October 2018, 1:30pm to 5pm

*Venue:* Lounge bar, Mackenzie centre, Burnley General Teaching Hospital

### **Gastro-intestinal tract 1**

*Topics covered:* Hepato-biliary disease and inflammatory bowel disease

*Content:* Our specialist clinical pharmacist will present information about the key diseases and their treatments involved in this topic. The use of cytotoxic medication and monoclonal antibodies for severe inflammatory bowel disease will be discussed. You will be provided with 10 or more assessment-style questions to test your knowledge and understanding.

*Date:* Wednesday 14<sup>th</sup> November 2018, 9am to 12:30pm

*Venue:* Lounge bar, Mackenzie centre, Burnley General Teaching Hospital

### **Gastro-intestinal tract 2**

*Topics covered:* Dyspepsia, peptic ulcer, constipation and diarrhoea

*Content:* Do you know when to choose a stimulant laxative and when to choose an osmotic laxative? Do you know when to use a PPI and the side effects associated with them? Our specialist clinical pharmacist will provide you with the key facts and, of course, assessment-style questions to test your knowledge and judgement.

*Date:* Wednesday 14<sup>th</sup> November 2018, 1:30pm to 5pm

*Venue:* Lounge bar, Mackenzie centre, Burnley General Teaching Hospital

### **Calculations 3**

*Topics covered:* Molecular weight, using formulae, health economics, quantities to supply

*Content:* During this tutorial we'll show you how to deal with those questions that require you to convert from mmoles to milligrams and vice versa. Calculations relating to health economics are new to the syllabus and we'll show you how to avoid some of the potential pitfalls. There will be 40 assessment-style questions for you to try (with help on the day and worked answers to take away with you)

*Date:* Wednesday 5<sup>th</sup> December 2018, 9am to 12:30pm

*Venue:* Lounge bar, Mackenzie centre, Burnley General Teaching Hospital

### **Calculations 4**

*Topics covered:* Estimations of kidney function, pharmacokinetics, CKD, AKI

*Content:* As well as your 40 assessment-style calculations questions there will be a brief presentation on chronic and acute kidney injury. Pharmacokinetics is the topic that most of us dread, but with worked examples to try and help on hand you'll soon get the hang of this type of question.

*Date:* Wednesday 5<sup>th</sup> December 2018, 1:30pm to 5pm

*Venue:* Lounge bar, Mackenzie centre, Burnley General Teaching Hospital

### **Malignant disease**

*Topics covered:* Danger signs and public health campaigns, drugs used in the treatment of cancer, calculations of oral anticancer drugs.

*Content:* Our specialist clinical pharmacists will cover the topic of chemotherapy, which is on the GPhC's 'high risk drugs' list. You will be given the opportunity to practice calculating doses and quantities to supply for oral chemotherapy regimens.

*Date:* Wednesday 30<sup>th</sup> January 2019, 9am to 12:30pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

## **Infection**

*Topics covered:* antibiotic stewardship, commonly encountered infections and appropriate treatment.

*Content:* Our specialist antimicrobial pharmacist will talk to you about her experiences in this field, as well as giving you that vital information about appropriate antibiotic choices for particular types of infection (now that the easy to read table has disappeared from the BNF). There were a fair number of questions on this topic in the 2017 GPhC assessment and, of course, antibiotics appear on the GPhC's 'high risk drugs' list. You will be given at least ten assessment-style questions to test your knowledge and understanding.

*Date:* Wednesday 30<sup>th</sup> January 2019, 1:30pm to 5pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

## **Cardiology 1**

*Topics covered:* hypertension, stable angina, AF, anticoagulation

*Content:* Presentation explaining the diagnosis and treatment of hypertension, stable angina and AF. Further information will be presented on anticoagulants (heparins, warfarin and the new oral anticoagulant drugs). A workbook will be included with cases for discussion and assessment-style questions to try. Note that both antihypertensives and anticoagulants are listed in the GPhC framework as 'high risk drugs' – there will be at least one question on each of these drug classes in the assessment.

*Date:* Wednesday 27<sup>th</sup> February 2019, 9am to 12:30pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

## **Cardiology 2**

*Topics covered:* Acute coronary syndrome, heart failure, stroke

*Content:* Our specialist clinical pharmacists will present information on these topics including detailed information on antiplatelet drugs and the NICE guidance for the treatment of individuals with these conditions. You will also learn about options for patients who are nil by mouth following a stroke.

*Date:* Wednesday 27<sup>th</sup> February 2019, 1:30pm to 5pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

## **Respiratory**

*Topics covered:* Asthma, COPD and inhalers

*Content:* Do you know how to use different types of inhalers? Our senior technician is an expert in this field and will give you the opportunity to find out first-hand how much force is required to extract a dose from a dry powder inhaler. Do you know which inhalers are dry powder inhalers and which are pressurised inhalers? Our fact sheet will list them for you. Our respiratory specialist pharmacist will guide you through the NICE guidelines for asthma and COPD with cases for discussion and assessment-style questions to try.

*Date:* Wednesday 27<sup>th</sup> March 2019, 9am to 12:30pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

## **Paediatrics**

*Topics covered:* Drugs used off-label, common childhood diseases, vaccinations

*Content:* Can you differentiate between measles and chickenpox, impetigo and meningitis? Our paediatric specialist pharmacist will alert you to the key danger signs so you will know who needs to go straight to hospital and who will be well again after a couple of days without treatment. The presentation will also include information about off-label vs. unlicensed use and the differences in drug handling between adults and children.

*Date:* Wednesday 27<sup>th</sup> March 2019, 1:30pm to 5pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

## **Nervous system 1**

*Topics covered:* Dementia, Parkinson's disease and nausea

*Content:* Our specialist clinical pharmacists will guide you through the complexities of treating patients with these medical problems. The presentation will also touch on the difficulties in administering medication in these patients. Do you know how to convert a patient from oral levodopa treatment to a rotigotine patch? You will be provided with 10 assessment-style questions (or more) to have a go at.

*Date:* Wednesday 10<sup>th</sup> April 2019, 9am to 12:30pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

## **Nervous system 2**

*Topics covered:* Analgesia, depression, bipolar disorder, epilepsy

*Content:* The tutorial on analgesia will be delivered by our specialist surgical pharmacist. Note that opioids and NSAIDs are high risk drugs. We will cover the treatment of depression of bipolar disorder, including lithium which is a 'high' risk drug. We will not cover treatment choices in epilepsy as this is a highly specialised field, we will however look at some of the key issues in the pharmaceutical care of patients on anti-epileptic drugs, in particular the drug-drug interactions they are involved in.

*Date:* Wednesday 10<sup>th</sup> April, 2019, 1:30pm to 5pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

## **Blood and nutrition**

*Topics covered:* Fluids and electrolytes, anaemia

*Content:* Electrolyte imbalances, how to recognise them and treat them (with either oral or intravenous therapy) will be discussed. We'll also cover intravenous fluid dosing and administration and causes and treatment of anaemia. There will be cases to discuss and assessment-style questions to have a go at.

*Date:* Wednesday 8<sup>th</sup> May 2019, 9am to 12:30pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

## **Genito-urinary system**

*Topics covered:* contraception, emergency contraception and drugs in pregnancy and breastfeeding

*Content:* After a brief presentation you will be given the opportunity to apply your knowledge to a number of scenarios involving requests for emergency contraception. As well as the available drugs we will be looking at the confidentiality, consent, safeguarding and legal issues potentially involved. The workbook provided will also provide revision material for other topics included in this BNF chapter.

*Date:* Wednesday 8<sup>th</sup> May 2019, 1:30pm to 5pm

*Venue:* Seminar room 4, Learning centre, Royal Blackburn Teaching Hospital

We offer two Mock assessments. These are full days, with the calculations paper in the morning and Paper 2 in the afternoon. There are two options (the same paper is used on both days):

Wednesday 22<sup>nd</sup> May 2019, seminar 4, learning centre, Royal Blackburn Teaching Hospital

**Or**

Wednesday 29<sup>th</sup> May 2019, Lounge bar, Mackenzie centre, Burnley General Teaching Hospital

East Lancashire Hospitals

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