**TRAINING MAP FOR CHEMICAL PATHOLOGY/METABOLIC MEDICINE (Mersey side)**

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| **Stages of training and curriculum competencies** | **Learning Objectives** | **Learning outcome** | **Hospitals providing the** **competencies** **RLBUHT:** Royal Liverpool and Broadgreen University Hospital NHS Trust**AUH**: Aintree University Hospital**Alder Hey** Hospital |
| **Stage A (12 months WTE or less than full time pro rota) (ST1 OR ST3)*****Laboratory competencies***Formal introduction to the basic principles of chemical pathology. Following the induction period, the trainee will receive instruction and practical experience in further aspects of chemical pathology ***Clinical competencies***Lipid managementDiabetes Mellitus***This stage of training will be formally assessed by The Royal College of Pathologists’ Year 1 Chemical Pathology Assessment*****Stage B (13-36 months WTE or less than full time pro rota) (ST2/3 OR ST 4/5)*****Laboratory competencies***The trainee will obtain a good general knowledge and understanding of most principles and practices under indirect supervision. He/she should be able to deal with most of the day-to-day issues in a hospital chemical pathology laboratory to an adequate level but will still require consultant input with regard to complex management and clinical issues. The trainees will continue to broaden their experience and understanding of chemical pathology.***Clinical competencies***Lipid managementBone metabolic disordersNutrition disordersObesityDiabetes mellitusEndocrine*The knowledge gained during this stage of training will be assessed by the FRCPath Part 1 examination.***Stage C (25-48 months WTE or less than full time pro rota)(ST3/4 OR ST 5/6)**Trainee to undertake further specialised general chemical pathology /metabolic medicine training. ***Laboratory competencies***Deep understanding of analytical principles, research project, critical appraisal, data analysis***Management competencies*****Research Project*****Clinical competencies***Lipid or cardiovascular risk managementAdult inherited metabolic disordersRenal stoneSpecialist Diabetes clinics*This stage of training will in part be summatively assessed by the FRCPath Part 2 examination.***Stage D (43-60 months WTE or less than full time pro rota) ST5 OR ST 7**The trainee to acquire in-depth knowledge and understanding of the principles of chemical pathology/metabolic medicine. He/she should be competent to discuss and deal with the subject (or, where appropriate, perform the task/procedure), demonstrating a level of clinical or professional judgement commensurate with independent professional practice at consultant levelBy the end of Stage D, the trainee should be able to demonstrate a level of knowledge and skill indicating suitability for independent professional practice in chemical pathology. This stage of the curriculum prepares the trainee for their Consultant post | Understanding the pre-analytical and analytical laboratory principlesUnderstanding the lipid management, managing patients with bone metabolic disorders, managing patients on parenteral nutrition supportFurther experience in laboratory techniques and interpretation of results in relation to diseases and organ systemsLaboratory rotations to have practical experience, reporting including core, endocrine and specialists testsTo be able to deal with laboratory issues and make clinical decisions independentlyContinuing with improving understanding on lipid, bone metabolism, nutritionAttending obesity, diabetes clinics and thyroid clinicsTo develop understanding of paediatric biochemistry and management of inborn errors of metabolic disordersAttending the laboratory meetings including operational, quality assurance, clinical governance, risk managementAttending the management coursesPlanning, designing and completing the research project for FRCPath dissertationContinue improving lipid managementManaging patients with inborn metabolic disorders It is anticipated that a trainee at this level should have consultant input readily available at all times where required.The ARCP undertaken towards the end of Stage C should identify goals for the trainee to achieve during their final year of training.To develop an expertise in one aspect of specialityEncouraged to do Post graduate certificate in medical education | Improving theoretical knowledge of laboratory principlesShadow the laboratory duty biochemistOn call for the laboratory * Lipid disorders
* Bone metabolic clinics
* Nutrition rounds and MDTs

Rotations in different sections of laboratoryLaboratory reportingOn call for Laboratory* Lipid disorders
* Bone metabolic disorders
* Nutrition
* Obesity clinic
* Diabetes clinic
* Endocrine(Thyroid clinics**)**
* Hypertension clinics

Occasional attendance in other clinic/ward rounds in other disciplines as determined by educational supervisorPaediatric Biochemistry(6 months)Adult inborn error of metabolism(6 months)Laboratory reportingOn call for labAttending the laboratory quality, clinical governance and operational meetingsTo do a small management project under the guidance of educational supervisorLipid disordersRenal stone metabolic clinicsSpecialist Diabetes clinicsTo develop an expertise in clinical area of choice/management/teaching | University of Manchester*Attending the PG Cert Clinical Biochemistry (Advanced)* * RLBUHT

*Managing patients in the clinics at RLBUHT**Attending the nutrition rounds and MDTs*RLBUHT* RLBUHT
* AUH
* Alder Hey Hospital
* Salford(Manchester)

Attendance at a course on Inherited Metabolic Disease held every 2 years on the Oxford Road Site (Nowgen)Contact jmassociates1@me.com* RLBUHT
* RLBUHT
* RLBUHT
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* Training to be completed within five and half years of ST3 for Chem Path (Metabolic Medicine)
* ARCP at the end of each year of training , WPBA minimum 6 of each in each year of training