

## Assessment Blueprint for Clinical Immunology

Curriculum area	Competence	MRCPath	Mini-CEX	DOPS	MSF	CBD
<b>Learning objective: The trainee will acquire a sound knowledge of Fundamental Immunology required to underpin clinical and laboratory practice</b>						
K	Core body of knowledge in fundamental immunology as laid out in detail in Appendix 1 (refer to section 3.1 Key learning outcomes 1-2, above)	•				•
S	Ability to integrate knowledge of fundamental immunology to understand the pathophysiology, including the genetic and molecular basis of (a) immunodeficiency diseases, (b) Autoimmune / rheumatic disease and systemic vasculitides , (c) allergic disease	•				•
A	Recognise vital importance of fundamental immunology to practice as a clinical immunologist	•				
<b>Learning objective: The trainee will acquire and be able to apply a comprehensive body of knowledge relating to the clinical presentation, investigation and management of patients with primary and secondary immunodeficiency diseases</b>						
K	The skills and knowledge required to: assess and manage patients with congenital and acquired immunodeficiency – including antibody and cell mediated defects, complement deficiency, C1 inhibitor deficiency and neutrophil defects , at a consultant level.(Use report of UIS Scientific Committee : Clin and Exp Immunology 1999; 118 (Suppl): 1-28	•				•
S	History taking		•			•
	Physical examination		•			•
	Selection of appropriate laboratory and ancillary investigations	•	•			•
	Formulating differential diagnoses	•	•			•
	Therapeutic Interventions	•	•			•
	Understand, putative mechanisms of action of various immunological therapies including immunoprophylaxis	•				•
	Have a working knowledge of the evidence base for the use of various immunological therapies including immunoprophylaxis	•				•
	Be able to explain the indications for the use of these therapies including immunoprophylaxis	•				•
Be able to explain adverse effects associated with individual therapies and immunoprophylaxis	•				•	

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A	Recognize importance of understanding immunopathogenesis to devise therapeutic options in these disorders	•				•
<b>Learning objective: The trainee will acquire and be able to apply a comprehensive body of knowledge relating to the clinical presentation, investigation and management of patients with systemic autoimmune rheumatic disease and systemic vasculitides</b>						
K	Core body of knowledge required to recognize, investigate and manage patients (in liaison with rheumatologists or relevant organ-based specialist) with systemic lupus erythematosus, scleroderma, inflammatory myositis, Wegener's granulomatosis, microscopic polyangiitis, cryoglobulinaemic vasculitis, giant cell arteritis, Takayasu's arteritis, polyarteritis nodosa and Henoch-Schonlein purpura	•				•
	Evidence –base for the various therapeutic options (conventional immunosuppressive agents, biologics) available to treat these patients	•				•
S	History taking	•	•			•
	Physical examination	•	•			•
	Selection of appropriate laboratory and ancillary investigations	•	•			•
	Formulating differential diagnoses	•	•			•
	Ability to apply knowledge of therapeutic options to select the most appropriate treatment for an individual patient	•				•
A	Recognize importance of understanding immunopathogenesis to devise therapeutic options in these disorders	•				•
	Appreciate need for close monitoring of patients to prevent/minimize adverse effects	•				•
<b>Learning objective: The trainee will acquire and be able to apply a comprehensive body of knowledge relating to the clinical presentation, investigation and management of patients with allergic diseases of all degrees of severity</b>						
K	Core body of knowledge required to recognize, investigate and manage patients with allergic diseases of all degrees of severity including food and aero allergy, insect venom allergy, drug allergy, anaesthetic allergy, latex allergy, anaphylaxis, anaphylactoid reactions, urticaria, non-hereditary angioedema, mastocytosis	•				•
	Evidence –base for the various therapeutic options to treat these patients, including anti-histamines, steroids and allergen-immunotherapy (desensitization therapy)	•				•

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S	History taking	•	•			•
	Physical examination	•	•			•
	Selection of appropriate laboratory and ancillary investigations	•	•			•
	Skin testing			•		•
	Allergen immunotherapy			•		•
	Challenge testing			•		•
	Self-injectable adrenailine training			•		•
	Formulating differential diagnoses	•	•			•
	Ability to apply knowledge of therapeutic options to select the most appropriate treatment for an individual patient	•				•
A	Recognize importance of understanding immunopathogenesis to devise therapeutic options in these disorders	•				•
	Appreciate need for close monitoring of patients to prevent/minimize adverse effects	•				•
<b>Learning objective: The trainee will acquire and be able to apply a solid foundation of knowledge required to direct a diagnostic immunology laboratory at Consultant Level</b>						
K	The skills and knowledge essential for directing a diagnostic immunology laboratory at Consultant level (refer to learning outcomes 19-20 which follow)	•				
	a sound knowledge of the principles of laboratory testing in diagnostic immunology	•				
	be able to perform certain designated laboratory tests without supervision			•		
	be fully conversant with the diagnostic utility and limitations of laboratory tests e.g sensitivity, specificity, predictive values	•				•
S	These are detailed in Appendix 2 (laboratory manual and training record)					
A	Establishes close rapport and understanding with laboratory staff, users of the laboratory service and service managers.				•	
	Appreciates integral importance of teamwork in running a diagnostic laboratory service				•	