

Tuberculosis	General Medicine	GM4.13	Perform and interpret a sputum AFB	carbofuschin; acetic acid	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131253533000150			https://cdn.clinicalkey.com/ck-thumbnails/B9780723434382X00011/B9780723434382000384/gr13-t.gif	YAI_1606899654004	https://indiambsskills.clinicalkey.com/local/courses/2437/s03_m04_dv_Zn%20staining/data/LandingPage.html			Old competency IM4.14 Removed and this has been integrated in GM4.13
Tuberculosis	General Medicine	GM27.1	Describe and discuss the epidemiology of tuberculosis and its impact on the work, life and economy of India	primary; tuberculosis; disseminated	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131263891000142#section-hi0000324		https://www.clinicalkey.com/student/content/book/3-s2-0-B9780702044595000108						Competency code changed
Tuberculosis	General Medicine	GM27.2	Describe and discuss the microbiology of tubercle bacillus, mode of transmission, pathogenesis, clinical evolution and natural history of pulmonary and extra pulmonary forms (including lymph node, bone and CNS)	mycobacterium avium; PAS stain; caseous necrosis	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323532662003088		https://cdn.clinicalkey.com/ck-thumbnails/C20161036684/B9780323532662003088/9780323532662-01-9780323532662-t.gif	https://cdn.clinicalkey.com/ck-thumbnails/C20161036684/B9780323532662003088/9780323532662-t.gif	YAI_1635951555478 YAI_1567757013850 YAI_1567777707684	https://www.osmosis.org/learn/Mycobacterium_tuberculosis_(Tuberculosis)	https://www.osmosis.org/learn/quiz/Mycobacterium_tuberculosis_(Tuberculosis)/step1/questions?learnPage=Mycobacterium_tuberculosis_%28Tuberculosis%29&quizTag=step1&quizType=questions	Competency code and subject changed	
Tuberculosis	General Medicine	GM27.3	Discuss and describe the impact of co-infection with HIV and other co-morbid conditions. Like diabetes on the natural history of tuberculosis	mycobacterium; acid-fast; immunosuppression	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323532662003088#hi0000438								Competency code and subject changed
Tuberculosis	General Medicine	GM27.4	Describe the epidemiology, the predisposing factors and microbial and therapeutic factors that determine resistance to drugs	weak regimn; poor adherence; low quality; polymorphism; monoresistance; MDR; extensive drug resistance	https://www.clinicalkey.com/student/content/toc/3-s2-0-C20220033766		https://www.clinicalkey.com/student/search/Drug%20resistant%20tuberculosis?source=home&facets=ict*IM						Competency code and subject changed
Tuberculosis	General Medicine	GM27.5	Elicit, document and present an appropriate medical history that includes risk factor, contacts, symptoms including cough and fever CNS and other manifestations	household contact; immunosuppression; socio-economic status	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323672924000139 https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323796088000878#hi0000166			YAI_1596025989155 YAI_1596025990712	https://www.clinicalkey.com/student/search/TUBERCULOSIS%20MANAGEMENT?source=home&facets=ict*IM			Competency code and subject changed	
Tuberculosis	General Medicine	GM27.6	Demonstrate and perform a systematic examination that establishes the diagnosis based on the clinical presentation that includes a) general examination, b) examination of the chest and lung including loss of volume, mediastinal shift, percussion and auscultation (including DOAP session of lung sounds and added sounds) c) examination of the lymphatic system and d) relevant CNS examination	auscultation; dullness	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323672924000139 https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323568661000329#hi0000748		https://www.clinicalkey.com/student/content/book/3-s2-0-B9780702074554000121	YAI_1561130120388 YAI_1567776998450 YAI_1596025989934				Competency code and subject changed	
Tuberculosis	General Medicine	GM27.7	Perform and interpret a PPD (mantoux) and describe and discuss the indications and pitfalls of the test	hypersensitivity IV; positive; false negative	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780702072123000141 https://www.clinicalkey.com/student/content/book/3-s2-0-B978070207844600026X#hi0000386		https://cdn.clinicalkey.com/ck-thumbnails/C20180018940/B9780323796088000878/978-04-9780323796088-t.gif	YAI_1594220895945 YAI_1596025159290 YAI_1596025160074 YAI_1596025160851				Competency code and subject changed	
Tuberculosis	General Medicine	GM27.8	Generate a differential diagnosis based on the clinical history and evolution of the disease that prioritises the most likely diagnosis	chest X-ray; primary; reactivation	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323833783002081		https://www.clinicalkey.com/student/content/book/3-s2-0-B9780702077326000116#hi0002921	https://www.clinicalkey.com/student/search/TUBERCULOSIS%20DIAGNOSIS?source=search.results&facets=ict*IM					Competency code and subject changed
Tuberculosis	General Medicine	GM27.9	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view, Mantoux, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing	Acid fast; infiltration; lymphadenopathy; X-ray	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323833783002081		https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323358095000400	https://www.clinicalkey.com/student/content/book/3-s2-0-B9781437705744500135	YAI_1568037569966 YAI_1635951817229 YAI_1635951821353				Competency code and subject changed
Tuberculosis	General Medicine	GM27.10	Interpret a sputum gram stain and AFB with antibiotic sensitivity test from a given report	carbofuschin; acetic acid	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131253533000150		https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323755764009388	https://www.clinicalkey.com/student/search/AFB%20stain?source=home&facets=ict*VD*ict*IM		https://indiambsskills.clinicalkey.com/local/courses/2437/s03_m04_dv_Zn%20staining/data/LandingPage.html			Competency code and subject changed
Tuberculosis	General Medicine		Assist in the performance, outline the correct tests that require to be performed and interpret the results of a pleural fluid aspiration	lights criteria; LDH; ADA; exudate	https://www.clinicalkey.com/student/content/book/3-s2-0-B978813125000600028X		https://www.clinicalkey.com/student/content/book/3-s2-0-B9780702044595000327			https://www.osmosis.org/learn/Pleural_effusion:_Clinical_practice	https://www.osmosis.org/learn/quiz/Pleural_effusion:_Clinical_practice/step2/questions?learnPage=Pleural_effusion%3A_Clinical_practice&quizTag=step2&quizType=questions	Competency removed	

Tuberculosis	General Medicine	GM27.11	Enumerate and describe the indications for tests including: serology, special cultures, Polymerase Chain Reaction and anti-tubercular drug sensitivity testing	lymphocytosis; AMPLICOR; ZN staining	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780323532662003088				YAI_1594220896674	https://www.osmosis.org/learn/Polymerase_chain_reaction_(PCR)_and_reverse_transcriptase_PCR_(RT-PCR)	https://www.osmosis.org/learn/quiz/Polymerase_chain_reaction_(PCR)_and_reverse_transcriptase_PCR_(RT-PCR)/fc/flashcards?learnPage=Polymerase_chain_reaction_%28PCR%29_and_reverse_transcriptase_PCR_%28RT-PCR%29&quizTag=fc&quizType=flashcards	Competency and subject changed
Tuberculosis	General Medicine	GM27.12	Describe and discuss the origin, indications, technique of administration, efficacy and complications of the BCG vaccine	fresh; old scar; accelerated reaction; delayed	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780702074546000357 https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9788131249949000105		https://www.clinicalkey.com/student/search/bcg%20vaccine?source=home&facets=ict*VD*ict*IM					Competency and subject changed
Tuberculosis	General Medicine	GM27.13	Describe and discuss the pharmacology of various anti-tuberculous agents, their indications, contraindications, interactions and adverse reactions	isoniazid; ethambutol; rifampicin; pyrazinamide; MDR; XDR	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780323568661000068 https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780702077326000116	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780702077326000116		YAI_1594221284923 YAI_1594221940888 YAI_1594221971110				Competency and subject changed
Tuberculosis	General Medicine	GM27.14	Prescribe an appropriate anti-tuberculosis Regimen based on the location of disease, smear positivity and negativity and comorbidities based on current national guidelines including directly observed tuberculosis therapy (DOTS)	isoniazid; ethambutol; rifampicin; pyrazinamide; MDR; XDR	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B978813125695400061X https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780702077326000116			YAI_1594221283445 YAI_1594221970393 YAI_1596025168656 YAI_1596025169438	https://www.osmosis.org/learn/Antituberculosis_medications	https://www.osmosis.org/learn/quiz/Antituberculosis_medications/fc/flashcards?learnPage=Antituberculosis_medications&quizTag=fc&quizType=flashcards	Competency and subject changed	
Tuberculosis	General Medicine	GM27.15	Describe the appropriate precautions, screening, testing and indications for chemoprophylaxis for contacts and exposed health care workers	chemoprophylaxis; INH	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780702082795000111#section-h0001846			YAI_1592226789430				Competency and subject changed
Tuberculosis	General Medicine	GM27.16	Define criteria for the cure of Tuberculosis; describe and recognize the features of drug-resistant tuberculosis, prevention and therapeutic regimens	isoniazid; ethambutol; rifampicin; pyrazinamide; MDR; XDR	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9788131264959000211	https://cdn.clinicalkey.com/ck-thumbnails/B9780723434382X00011/B9780723434382000384/r14-t.pdf	https://www.clinicalkey.com/student/search/tuberculosis%20drug%20resistance?source=search;results&facets=ict*IM	YAI_1596025174881				Competency and subject changed
Tuberculosis	General Medicine	GM27.17	Educate health care workers on National Program of Tuberculosis and administering and monitoring the DOTS program	revised; categories; drug resistance; case definition; organization	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9788131263891000166#h0000513							Competency and subject changed
Tuberculosis	General Medicine	GM27.18	Communicate with patients and family in an empathetic manner about the diagnosis and therapy of Tuberculosis.	mycobacterium; acid-fast	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B978813126560400128X							Competency and subject changed
Tuberculosis	Pediatrics	PE27.3	Distinguish bacterial, viral and tuberculous meningitis	CSF analysis; protein	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780323711593000607#h0000349 https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780702082658000167#h0002016		https://www.clinicalkey.com/student/search/CSE%20ANALYSIS?source=search;results&facets=ict*IM	YAI_1561131106204 YAI_1561131107521	https://www.osmosis.org/learn/Meningitis	https://www.osmosis.org/learn/quiz/Meningitis/fc/flashcards?learnPage=Meningitis&quizTag=fc&quizType=flashcards	Competency code changed	
Tuberculosis	Pediatrics	PE31.1	Discuss the epidemiology, clinical features, clinical types, complications of Tuberculosis in Children and Adolescents	pulmonary; extrapulmonary; LTBI; risk factors; acid-fast	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9788131250242000101 https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9788131261521000274#h0002519	https://cdn.clinicalkey.com/ck-thumbnails/C20190017402/B97881312615210000552/fc46-01-9788131261194-t.pdf	https://www.clinicalkey.com/student/search/TUBERCULOSIS%20KIDS?source=search;results&facets=ict*IM	YAI_1561131111661 YAI_1596025165509 YAI_1606901345979	https://www.osmosis.org/learn/Pediatric_bone_and_joint_infections_Clinical_practice	https://www.osmosis.org/learn/quiz/Pediatric_bone_and_joint_infections_Clinical_practice/step2/questions?learnPage=Pediatric_bone_and_joint_infections%3A_Clinical_practice&quizTag=step2&quizType=questions	Competency codes changed	
Tuberculosis	Pediatrics	PE31.2	Discuss the various diagnostic tools for childhood tuberculosis	tuberculin test; BCG	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780323775625000092		https://www.clinicalkey.com/student/search/TUBERCULIN%20TEST?source=search;results&facets=ict*IM	YAI_1594220897403 YAI_1596025161633 YAI_1606901346125				Competency codes changed
Tuberculosis	Pediatrics	PE31.3	Discuss the various regimens for management of Tuberculosis as per National Guidelines	revised; categories; drug resistance; case definition; organization	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B978813125695400061X#h0000993 https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9780323674072000176		https://www.clinicalkey.com/student/search/NTEP?source=search;results&facets=ict*IM	YAI_1594220152744 YAI_1594221281232 YAI_1594221281971 YAI_1594221282708				Competency codes changed
Tuberculosis	Pediatrics	PE31.4	Discuss the preventive strategies adopted and the objectives and outcome of the National Tuberculosis Control Program	national; tuberculosis; DOTS	https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9788131263891000142 https://www.clinicalkey.com/student/t/content/book/3-s2-0-B9788131263891000464			YAI_1635951031626				Competency codes changed

Tuberculosis	Pediatrics	PE31.5	Elicit, document and present history of contact with tuberculosis in every patient encounter, Identify BCG scar and interpret a Mantoux test.	contact; household	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131257715000166								Competency code and description changed
Tuberculosis	Pediatrics		Identify a BCG scar	fresh; old scar; accelerated reaction; delayed	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131249949000105								Competency codes changed
Tuberculosis	Pediatrics		Interpret a Mantoux test	hypersensitivity IV; positive; false negative	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131255018000114#hl0006071 https://www.clinicalkey.com/student/content/book/3-s2-0-B9780702072123000086#hl0001658			https://www.clinicalkey.com/student/search/mantoux%20test?source=home&facet=act*IM					Competency codes changed
Tuberculosis	Pediatrics		Interpret a Chest Radiograph	Ghon complex; ranke complex; simon focus; apical; upper lobe	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323775625001243 https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323755764003343#hl0000318			https://www.clinicalkey.com/student/search/chest%20radiograph?source=home&facets=act*IM					Removed
Tuberculosis	Pediatrics	PE31.6	Interpret blood tests in the context of laboratory evidence for tuberculosis	lymphocytosis; AMPLICOR; ZN staining	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780702073694000101 https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323755764009625#hl0000361								Competency code changed
Tuberculosis	Pediatrics	PE31.7	Describe the various samples for demonstrating the organism e.g. Gastric Aspirate, Sputum, CSF, FNAC	acid fast; CSF; ADA; necrosis; caseous	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131261521000274#hl0002666 https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323755764009406#hl0000267				YAI_1561129834327 YAI_1594219258860				Competency code changed
Tuberculosis	Pediatrics	PE31.8	Enumerate the indications, discuss the limitations of methods of culturing M. Tuberculosis and the newer diagnostic tools for Tuberculosis including BACTEC CBNAAT and their indications	carbolfuchsin; acetic acid	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131253533000150			https://www.clinicalkey.com/student/search/AFB%20stain?source=search-results&facets=act*IM	YAI_1606899654004	https://indiambss.kills.clinicalkey.com/local/courses/2437/s03_m04_dv_Zn%20staining/data/LandingPage.html			Competency code changed
Tuberculosis	Pediatrics	PE34.12	Enumerate the indications and discuss the limitations of methods of culturing M.Tuberculli	LJ medium; dubos; Middlebrook and Beck	https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323568661000019			https://cdn.clinicalkey.com/ck-thumbnails/C2015005723/9/9788131244616000424/f47-03-978813124461616.tif					Competency code changed
Tuberculosis	Pediatrics		Enumerate the newer diagnostic tools for Tuberculosis including BACTEC CBNAAT and their indications	GeneXpert; urine LAM	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131261194000370 https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131261521000274#hl0002748			https://www.clinicalkey.com/student/search/bacter?source=home&facets=act*IM					Remapped with 31.3
Tuberculosis	Orthopedics	OR4.1	Describe and discuss the clinical features, Investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abscess and caries spine	Pott spine; tuberculosis; osteomyelitis	https://www.clinicalkey.com/student/content/book/3-s2-0-B978813126431700023X#hl0001326 https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131264317000137		https://cdn.clinicalkey.com/ck-thumbnails/C20130002551/B9780323220897000186/f011_0099780323220897-t.gif	https://www.clinicalkey.com/student/search/tuberculosis%20pediatric?source=search-results&facets=act*IM	YAI_1561129973801				No changes needed
Tuberculosis	Orthopedics	OR3.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Bone and joint infections a) Acute Osteomyelitis b) Subacute osteomyelitis c) Septic arthritis & HIV infection d) Chronic osteomyelitis	Musculoskeletal Infection	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131264317000137#hl0000982 https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131257678000190#hl0006030		https://www.clinicalkey.com/student/content/book/3-s2-0-B9780323498258000364		YAI_1561129803411 YAI_1561131150997 YAI_1561131157203 YAI_1592235290332				Competency code, description changed and topic changed
Tuberculosis	OBG	OG27.2	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of genital tuberculosis	genital tuberculosis	https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131244678000818#hl0000174 https://www.clinicalkey.com/student/content/book/3-s2-0-B9788131266304000379#hl0000223			https://www.clinicalkey.com/student/search/genital%20tuberculosis?source=home	YAI_1606901333318 YAI_1606902069824 YAI_1606902083627				No changes needed

