

MBBS 46th Batch
Maharajgunj Medical Campus, Institute of Medicine, TU,
Musculoskeletal System
Correlation Seminar
2083 Shrawan

Topic: Systemic Lupus Erythematosus (SLE)

S. No.	Hall A	Hall B	Objectives	Subject
1	2491	2541	Describe the microscopic anatomy of the skin.	Anatomy
2	2492	2542	Enumerate the types of cell junctions and their functional significance.	Anatomy + Physiology
3	2493	2543	Describe the structure of appendages of the skin, and enumerate their functions.	Anatomy + Physiology
4	2494	2544	Describe the etiology and pathogenesis of SLE.	Pathology
5	2495	2545	Describe the morphological features of lupus erythematosus.	Pathology
6	2496	2546	Describe the role of microbial triggers in SLE, with particular emphasis on molecular mimicry.	Microbiology
7	2497	2547	Discuss common infections associated with SLE and explain why patients with SLE are at increased risk of infection.	Microbiology
8	2498	2548	Outline the laboratory investigations used for the diagnosis and monitoring of SLE.	Biochemistry + Pathology
9	2499	2549	List the common drugs implicated in causing SLE and discuss their mechanisms behind it.	Pharmacology
10	2500	2550	List the classes of drugs used in the treatment of SLE with their serious adverse effects, and specify the ways to mitigate them.	Pharmacology
11	2501	2551	Discuss global burden, environmental and occupational determinants of SLE.	Community Medicine
12	2502	2552	SLE patients with severe systemic involvement have the worst prognosis. Explain briefly.	Community Medicine
13	2503	2553	Define odds ratio (OR) and relative risk (RR)? How do you calculate the OR and RR of a risk factor for SLE.	Community Medicine

Date and Time : **2083/4/11 at 11 AM**
Hall A : **Room.217; New Academic and Administrative Building**
Hall B : **LR, Basic Science Building**



Dr. Shyam Kumar Mishra
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Topic: Septic arthritis

S. No.	Hall A	Hall B	Objectives	Subject
1	2504	2554	List and describe the subtypes of synovial joint with examples of each.	Anatomy
2	2505	2555	Explain the mechanism of body temperature regulation.	Physiology
3	2506	2556	Define fever and its relationship with the temperature regulation centers.	Physiology
4	2507	2557	Outline the biochemical composition and laboratory analysis of synovial fluid.	Biochemistry
5	2508	2558	List causative agents of septic arthritis. Explain morphology of <i>Staphylococcus aureus</i> .	Microbiology
6	2509	2559	Describe virulence factors of <i>Staphylococcus aureus</i> .	Microbiology
7	2510	2560	List clinical manifestation of <i>Staphylococcus aureus</i> arthritis.	Microbiology
8	2511	2561	Explain laboratory diagnosis of septic arthritis.	Microbiology
9	2512	2562	List the pathological changes in a patient with septic arthritis. Correlate them with radiological findings.	Pathology
10	2513	2563	Explain the possible outcomes of a patient with septic arthritis.	Pathology
11	2514	2564	List the antimicrobial agents used in the treatment of septic arthritis. Discuss the local factors affecting the choice of antimicrobial agents for septic arthritis.	Pharmacology
12	2515	2565	Describe the prevention of septic arthritis.	Community Medicine
13	2516	2566	Discuss rehabilitation of patients due to septic arthritis at the community level.	Community Medicine

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Topic: Fracture

S. No.	Hall A	Hall B	Objectives	Subject
1	2517	2567	Explain the different parts of a long bone with a well labelled diagram.	Anatomy
2	2518	2568	Describe the microscopic anatomy of the compact bone.	Anatomy
3	2519	2569	Describe the process of endochondral ossification in a long bone, including primary and secondary ossification centers.	Anatomy + Physiology
4	2520	2570	Name the types of bone cells and their functions.	Physiology
5	2521	2571	Describe the stages of fracture healing.	Pathology
6	2522	2572	Describe the factors affecting fracture healing. List complications of fracture healing.	Pathology
7	2523	2573	List organisms associated with open fracture wound infection. Explain morphology and cultural characteristics of <i>Clostridium perfringens</i> .	Microbiology
8	2524	2574	Define gas gangrene. Explain its pathogenesis.	Microbiology
9	2525	2575	Describe laboratory diagnosis of gas gangrene.	Microbiology
10	2526	2576	Outline the markers of bone metabolism and acute phase reactants. List their usage in monitoring bone diseases.	Biochemistry
11	2527	2577	Outline the roles of PTH, calcitonin, and vitamin D in bone turnover.	Biochemistry
12	2528	2578	Discuss the pharmacological basis of calcium and vitamin D supplementation in different types of fractures.	Pharmacology
13	2529	2579	Explain the terms 'disease', 'impairment', 'disability' and 'handicap'. Discuss the types of tertiary prevention for a patient with fracture.	Community Medicine
14	2530	2580	Describe the first aid management of fracture in the community.	

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Topic: Rheumatoid arthritis

S. No.	Hall A	Hall B	Objectives	Subject
1	2531	2581	Define a joint. Classify the joints structurally and functionally with examples.	Anatomy
2	2532	2582	Describe the structure of a synovial joint. Mention different movements occurring in synovial joints with examples.	Anatomy
3	2533	2583	Explain the pathogenesis and pathophysiology of rheumatoid arthritis.	Pathology+ Physiology
4	2534	2584	Describe the gross and microscopical features of rheumatoid arthritis.	Pathology
5	2535	2585	List the clinical features of rheumatoid arthritis along with its complications.	Pathology
6	2536	2586	Describe the microbiological and immunological basis of laboratory diagnosis of rheumatoid arthritis, focusing on rheumatoid factor (RF), anti-CCP antibodies, ESR, and CRP, along with their clinical interpretation.	Microbiology
7	2537	2587	List the drugs effective in Rheumatoid arthritis. Explain the rationale for use of DMARDs.	Pharmacology
8	2538	2588	Compare biological DMARDs with non-biological DMARDs.	Pharmacology
9	2539	2589	How do you describe a disease in relation to time? What is secular trend? How is medical record-keeping crucially important in this endeavour?	Community Medicine
10	2540	2590	Discuss epidemiological determinants and burden (including DALYs) for rheumatoid arthritis.	Community Medicine

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