

CARDIOLOGY



DAY 1

Cardiac Cycle & Physiology

Total Duration: 1 hour, 8 minutes, and 59 seconds (1:08:59)

- Introduction – 2:48
- Cardiac Cycle – 8:09
- Isovolumetric Ventricular Contraction – 2:38
- Rapid Ventricular Ejection – 5:42
- Isovolumetric Ventricular Relaxation – 3:11
- Ventricular Filling – 9:39
- Atrial Systole – 5:20
- Jugular Venous Tracing – 5:03
- Pulsus Paradoxus – 3:25
- Pressure-Volume Loops – 17:00
- Cardiac Action Potentials – 6:04

DAY 2

Microbiology & Pathophysiology in Cardiology

Total Duration: 1 hour, 10 minutes, and 9 seconds (1:10:09)

- Integrated Microbiology for the USMLE | Cardiology – 10:30
- Hyperthermia – 1:45
- Immunocompromised Host for USMLE – 2:04
- Acute Inflammation for USMLE – 5:58
- Cardiac Microbiology – 2:10
- Pathophysiology of Sub-Acute Bacterial Endocarditis – 0:46
- Bacteria Biofilms – 3:47
- Viridans Streptococci – 1:22
- Indications for Antimicrobial PPX for Endocarditis – 1:11
- Acute Bacterial Endocarditis – 5:38
- IV Drug Use and Endocarditis – 1:51
- Culture Positive Infective Endocarditis – 2:46
- Pathophysiology of Acute Rheumatic Fever – 3:57
- Group A Streptococcus – 3:15
- Scarlet vs Rheumatic Fever – 2:38
- Jones Criteria for USMLE – 3:59
- Heart Block Lyme Disease – 4:14
- Mitral Stenosis – 2:41
- Staph and Strep Morphology Summary – 3:00
- Diphtheria – 2:51
- Protein Synthesis Inhibition – 2:46
- Myocarditis – 1:00

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DAY 3

High-Yield Concepts & Genetic Associations

Total Duration: 1 hour, 59 minutes, and 19 seconds (1:59:19)

- NBME Top Concepts: Cardiology Introduction – 6:38
- DiGeorge Syndrome – 3:00
- Branchial Pouch Derivatives – 3:50
- Lipid Lowering Drugs – 14:45
- Shock – 23:42
- Thermoregulation – 3:12
- S3, S4, HOCOM, DCM, Murmurs – 8:50
- Vasculitis – 4:43
- Post-MI Complications – 7:39
- Right Heart Failure vs. Left Heart Failure – 5:48
- Murmurs & Maneuvers – 25:15
- Turner Syndrome – 2:45
- Rapid Review Genetic Heart Lesions & Cardiac Anomalies – 2:02
- Genetic Conditions & Heart Lesions – 0:53
- Tetralogy of Fallot – 3:33
- Tet Spells – 2:44

DAY 4

Pharmacology & Integrative Classroom Cases

Total Duration: 1 hour, 52 minutes, and 48 seconds (1:52:48)

- Introduction to Cardiac Pharm – 0:54
- Atrial Fibrillation & Virchow's Triad – 6:40
- Rate Control vs. Rhythm Control – 3:00
- Anti-Arrhythmic Medications (Intro) – 2:55
- Amiodarone Systemic Toxicity – 3:09
- Class 1 Anti-Arrhythmics – 4:14
- Class 2 Anti-Arrhythmics (Integrates MVO₂) – 7:20
- Calcium Channel Blockers – 6:57
- Introduction to Heart Failure (RAAS) – 11:14
- Acute Heart Failure Pharmacology – 4:05
- Chronic Heart Failure Pharmacology – 3:38
- Digoxin (Toxicity) – 4:50
- Anti-Lipid Agents – 9:36
- Integrative Classroom Case: Septal Defects – 9:21
- Integrative Classroom Case: Dyslipidemia & MI – 19:45
- How to Approach Pharm Questions on the USMLE – 15:10