

# CARDIOLOGY



## DAY 1

### Foundations of Physiology for the USMLE (Cardiology)

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

### Integrated Microbiology for the USMLE | Cardiology

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

- Overview – 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

### NBME Top Concepts: Cardiology

Total Duration: 1 hour, 17 minutes, and 46 seconds (1:17:46)

- 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
- Test Taking Strategies Masterclass (1:27)

## DAY 4

### High Yield USMLE Images & PE Findings: Cardiology

Total Duration: 1 hour, 7 minutes, and 16 seconds (1:07:16)

- Course Overview (1:00)
- Right Heart Failure vs. Left Heart Failure (5:48 )
- Murmurs & Maneuvers (25:15 )
- Transudative vs. Exudative for the USMLE (1:29 )
- Mechanisms of Edema (3:17 )
- X-Rays of Cardiac Lesions (0:29 )
- Turner Syndrome (2:45 )
- Rapid Review Genetic Heart Lesions & Cardiac Anomalies (2:02 )
- Genetic Conditions & Heart Lesions (0:53 )
- Pathophysiology of Tetralogy of Fallot (3:33 )
- Pathophysiology of Tet Spells (2:44 )
- Endocarditis (4:05 )
- Microbiology Integration (3:12 )
- Infective Endocarditis on USMLE (3:17 )
- Rheumatic Fever (6:09 )
- Erythema Marginatum (1:18 )

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## DAY 5

### Integrative Classroom Cases: Cardiology

Total Duration: 1 hour, 32 minutes, 2 seconds (1:32:02)

- Integrative Classroom Case: Septal Defects (9:21 )
- Integrative Classroom Case: Fetal Circulation (3:10 )
- Integrative Classroom Case: Murmurs (8:19 )
- Integrative Classroom Case: Arrhythmias (16:07 )
- Integrative Classroom Case: Amyloid & Carotid Hypersensitivity (2:30 )
- Integrative Classroom Case: Congenital Heart Defects (2:56 )
- Integrative Classroom Case: Dyslipidemia & Myocardial Infarction (19:45 )
- Integrative Classroom Case: Endocarditis, Myocarditis, Pericarditis (18:30 )
- Integrative Classroom Case: Chest Pain, Cardiomyopathies, & CHF (11:24 )

## DAY 6

### Mechanisms of Pharmacology (Cardiology)

Total Duration: 1 hour, 26 minutes, and 0 seconds (1:26:00)

- 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 )
- Cardiac Action Potentials (6:13 )
- Class 1 Anti-Arrhythmics (4:14 )
- Drug Induced Lupus Integration (2:08 )
- Class 2 Anti-Arrhythmics (Integrates MVO<sub>2</sub>) (7:20 )
- Calcium Channel Blockers (6:57 )
- Summary of Anti-Arrhythmics (1:22 )
- 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 )
- LDL, HDL, TAG, Niacin (2:47 )
- Fat Soluble Vitamins (integration) (4:58 )