

DNA, GENETICS, IMAGES AND PE



DAY 1

DNA Synthesis, Transcription, Translation

Total Duration: 1 hour, 22 minutes, 46 seconds (1:22:46)

- Session Outline (5:17)
- Sites of Metabolism (3:14)
- DNA Rapid Review (1:33)
- HMP Shunt Nucleotide Synthesis (6:28)
- DNA Replication (2:40)
- Telomerase & Topoisomerase (4:44)
- DNA Polymerase & Synthesis (4:12)
- Transcription (2:12)
- Steroid hormones (8:42)
- Lac Operon (4:35)
- Transcription revisited (4:36)
- Splicing and Post Transcriptional Modifications (1:22)
- Spinal Muscular Atrophy Integration (7:01)
- Translation (1:02)
- tRNA structure significance (3:30)
- Prokaryotic vs Eukaryotic translation (8:08)
- Protein Elongation Virulence Factor Integration (4:31)
- Translocation (3:16)
- Post Translational Modification (4:10)
- I Cell disease Integration (1:10)
- Summary (0:23)

DAY 2

Genetic Principles & Hardy Weinberg

Total Duration: 58 minutes, 50 seconds (0:58:50)

- Introduction (1:43)
- Overview (2:24)
- Session Outline (3:17)
- Multi-Organ Dysfunction (1:50)
- Variable Expressivity vs Pleiotropy (1:41)
- Co Dominance (4:21)
- Genotype vs Phenotype (1:10)
- Neurofibromatosis (7:26)
- Anticipation (3:54)
- USMLE Trinucleotide Repeats (4:57)
- Mosaicism (1:39)
- Imprinting Disorder (6:31)
- Linkage Disequilibrium (5:19)
- Test Taking Strategy for USMLE (5:43)
- Pedigrees (6:55)

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DAY 3

Metabolic and Genetic Syndromes

Total Duration: 1 hour, 15 minutes, and 46 seconds (1:15:46)

- Introduction (2:32)
- A Test Taking Approach for Syndromes (5:28)
- Down's Syndrome Integration (15:18)
- Patau & Edwards Syndrome (2:39)
- Imprinting Syndromes (5:01)
- Homocystinuria (4:09)
- Marfanoid Habitus (8:30)
- Marfan's Syndrome (1:36)
- Ehler's Danlos Syndrome (2:17)
- Lesch Nyhan Syndrome (3:16)
- Kartagener's Syndrome (4:31)
- Cystic Fibrosis (8:00)
- Neurocutaneous Syndromes (3:00)
- Lupus Integration (9:29)

DAY 4

High Yield Images & PE (Introduction)

Total Duration: 50 minutes and 30 seconds (0:50:30)

- USMLE Test Taking Strategy Approach to Multi-Media Questions (3:07)
- USMLE Study Tip (0:51)
- Test Taking Strategy for Image Questions (6:27)
- Top Images You Will Encounter on the USMLE (40:05)