

# DRAFT

## Module: Cardiovascular System

Week of: 3/18/02

	3/18/02	3/19/02	3/20/02	3/21/02	3/22/02
8:00					
9:00	Introduction Function of the CVS, Cells, O <sub>2</sub> , CO <sub>2</sub> , Energy, Inflammation	Imaging of CVS, Functional Anatomy of Heart and Great Vessels	Molecular Proteins of Cardiac, VSM Channels	Ca <sup>2+</sup> Cycle of Heart and VSM: Drugs	Biophysics of Blood Flow
10:00	Review: Gross and Microscopic Anatomy	Metabolism of the Heart: Energy	Action Potential, X-C Coupling, GK Twitch	Endothelium, Regulation of VSM, EDRF, Peptides	Regulation of Blood Flow  (SG)
11:00	Cardiovascular System	Cell Membranes, Heart and Vascular Smooth Muscle	Screening and Prevention  LT	Autonomic Regulation of Heart and Blood Vessels	
12:00					
1:00	Gross and Microscopic Anatomy Cardiovascular System (Lab)	Children's Health  Mentor SG  LT	Clinical Skills or IS	Clinical Skills or IS	Clinical Skills or IS
2:00					
3:00	Pathology of the Cardiovascular System (Lab)				
4:00			LT	LT	LT

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## Module: Cardiovascular System

Week of: 3/25/02

	3/25/02	3/26/02	3/27/02	3/28/02	3/29/02
8:00					
9:00	Electrophysiology of Heart	Autonomic Agonists, Antagonists, Mixed Agents	Coronary Circulation Structure, Function	Harvey (1/3rd)	Lymphatics-Microcirculation
10:00	Electrophysiology of SA and AV Node	Cardiac Cycle	Function and Regulation of the Coronary Circulation	UMedic (1/3rd)	Control of Peripheral Circulation Via Drugs (SG)
11:00	Heart and Conduction (Demo)	Cardiac Cycle (SG)	Screening and Prevention LT	Bedside (1/3rd)	
12:00					
1:00	Basis of Normal Electrocardiogram (SG)	Screening and Prevention	Cultural Issues in Health Care or IS	Cultural Issues in Health Care or IS	Cultural Issues in Health Care or IS
2:00		Mentor SG LT			
3:00					Spring Break Begins!
4:00			LT	LT	LT

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## Module: Cardiovascular System

Week of: 4/8/02

	4/8/02	4/9/02	4/10/02	4/11/02	4/12/02
8:00					
9:00	Anatomy and Histology Pulmonary Circulation	Cardiac Loading Ventricular Performance	Body Fluids, Intro to Diuretics	Harvey (1/3rd)	Ca+2 Blockers
10:00	Physiol and Pharmacology Pulmonary Circulation	Discussion Pressure-Flow Simulations (SG)	Applications of Diuretics in CVS Function	UMedic (1/3rd)	Cardiovascular Pathology & Radiology (CPC, Lab)
11:00	Cardiac Output Venous Return		Preload and Afterload	Public Health	
12:00			LT		
1:00	Pressure-Flow Simulations (Lab)	Epidemiology	Behavioral Aspects of Special Populations  or IS	Behavioral Aspects of Special Populations  or IS	Behavioral Aspects of Special Populations  or IS
2:00		Mentor SG			
3:00					
4:00			LT	LT	LT

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## Module: Cardiovascular System

Week of: 4/15/02

	4/15/02	4/16/02	4/17/02	4/18/02	4/19/02
8:00					
9:00	Response to Cardiac Loading-Hypertrophy	Inotropics, Digoxin, Dig Toxicity	Valvular Heart Disease I	Harvey (1/3rd)	Case Demonstration: Valcular Disease
10:00	Cardiac Autonomic Regulation in CHF	Case Studies-Inotropics (SG)	Valvular Heart Disease II	UMedic (1/3rd)	Cardiac Transplantation
11:00	Exercise Physiology	Pathology of Valvular HD, Rheumatic HD	Public Health LT	Bedside (1/3rd)	Drugs and Immunosuppression
12:00					
1:00	Adaptation to Exercise, Oxygen Consumption, Metabolic Measurement (Lab)	Evidence Based Medicine Mentor SG LT	Clinical Skills or IS	Clinical Skills or IS	Clinical Skills or IS
2:00					
3:00					
4:00			LT	LT	LT

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## Module: Cardiovascular System

Week of: 4/22/02

	4/22/02	4/23/02	4/24/02	4/25/02	4/26/02
8:00	QUIZ				
9:00	Biochemistry of Lipid Metabolism	Endothelial Function in Atherosclerosis	Genetics of ASCVD, Infection	Pathophysiology of Angina Pectoris	Non-Invasive Diagnostic Imaging
10:00	Pathogenesis of Atherosclerosis	Cardiovascular Risk Factors	Drug Rx of ASCVD: Lipid Drugs	Chronic Stable Angina	Cardiovascular Pathology + Radiology Chronic CAD (CPC, Lab)
11:00	Pathology of Atherosclerosis: Inflammation and Plaque Dynamics	Control and Modification: ASCVD Risk Factors	Domestic Violence LT	Drug Rx of Angina Pectoris	
12:00					
1:00	Atherosclerosis: Gross & Microscopic Pathology Radiologic Appearance (Lab)	Clinical Skills Mentor SG LT	Public Health or IS	Public Health or IS	Public Health or IS
2:00					
3:00					
4:00			LT	LT	LT

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## Module: Cardiovascular System

Week of: 4/29/02

	4/29/02	4/30/02	5/1/02	5/2/02	5/3/02
8:00					
9:00	Principles of Clotting	How & Why Myocardial Cells Die	Acute MI: Mechanical Consequences, Myocardial Remodeling	Cardioprotective Drugs	Invasive Cardiology
10:00	Platelet Function	Clinical Electrocardiogram I Acute MI	Acute MI: Electrical Consequences	Drug and Non-Drug Therapy of AMI, Acute Coronary Syndromes, Spasm, Syndrome-X, Microvascular Angina	Cardiothoracic Surgery
11:00	Acute Myocardial Infarct Pathogenesis	Clinical Electrocardiogram II Chronic CAD	Children's Health LT		Pericardial Diseases
12:00					
1:00	Electrocardiogram Acute MI	Epidemiology Mentor SG LT	Children's Health or IS	Children's Health or IS	Children's Health or IS
2:00	Gross and Microscopic Pathology Acute MI				
3:00	Radiologic Appearance (Lab)				
4:00			LT	LT	LT

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## Module: Cardiovascular System

Week of: 5/6/02

	5/6/02	5/7/02	5/8/02	5/9/02	5/10/02
8:00	QUIZ				
9:00	Cardiomyopathies, Myocarditis	Endocarditis	Therapy of Congestive Heart Failure	High Output Cardiac Failure	Shock
10:00	Hypertrophic Cardiomyopathies	Pathology of CHF/Fluids	Management of CHF	Applied Therapies for CHF: Drugs and Devices (SG)	Cardiovascular Response to Systemic Disease, Neoplasm, Toxins and Drugs
11:00	CHF: Diastolic & Systolic	Renin-Angiotensin Aldosterone	Humanities in Medicine		
12:00					
1:00	Heart Failure: Hemodynamics (Demo-Simulation)	Humanities in Medicine Mentor SG	Clinical Skills or IS	Clinical Skills or IS	Clinical Skills or IS
2:00					
3:00					
4:00					

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## Module: Cardiovascular System

Week of: 5/13/02

	5/13/02	5/14/02	5/15/02	5/16/02	5/17/02
8:00	QUIZ				
9:00	Conduction Disease and Arrhythmias	Programmed Stimulation, Pacemakers,	Cardiovascular Drugs Review	Syncope	Sudden Death
10:00	EKG in Conduction Disease and Arrhythmias	Workshop: Clinical Electrocardiogram Analysis (SG)	Cardiac Rehabilitation	Case Studies: Syncope & Arrhythmias (SG)	Cardiogenic Embolic Disorders
11:00	Atrial Arrhythmias		Women's Health LT		Deep Vein Thrombosis
12:00					
1:00	Anti-Arrhythmic Drugs	Women's Health Mentor SG LT	Humanities in Medicine or IS	Humanities in Medicine or IS	Humanities in Medicine or IS
2:00	Drug and Ablation Therapy of Arrhythmias				
3:00					
4:00					

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## Module: Cardiovascular System

Week of: 5/20/02

	5/20/02	5/21/02	5/22/02	5/23/02	5/24/02
8:00					
9:00	Blood Pressure Regulation	Diagnostic Imaging in Hypertension	Drug Treatment of Hypertension and Hypertensive Emergencies	Hypertension: Gender and Racial Differences	Peripheral Vascular Disease
10:00	Hypertension: Overview	Hypertension: Blood Pressure Measurements and Ambulatory Monitoring (SG)		Case Studies in Hypertension (SG)	Aortic Dissection
11:00	Secondary Causes of Hypertension		Geriatrics		
12:00			LT		
1:00	Pathology of Hypertension	Evidence Based Medicine	Geriatrics or IS	Geriatrics or IS	Geriatrics or IS
2:00	Gross and Microscopic	Mentor SG			
3:00	Pathology of Hypertension (CPC, Lab)	LT			
4:00			LT	LT	LT

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## Module: Cardiovascular System

Week of: 5/27/02

	5/27/02	5/28/02	5/29/02	5/30/02	5/31/02
8:00	Memorial Day				IS
9:00		Embryology of Heart and Blood Vessels	Heart Disease in Women	Genetic Syndromes	
10:00		Cardiac Adaptations At Birth	Heart Disease in the Elderly	Future Strategies: Gene Therapy	
11:00		Non-Cyanotic Congenital Heart Disease	International Health	REVIEW	
12:00					
1:00	Memorial Day	Cyanotic Congenital Heart Disease	Screening and Prevention	Clinical Skills or IS	FINAL EXAMINATIONS
2:00		Case Studies: Children With Heart Disease (SG)	Mentor SG		
3:00					
4:00					

1/1/04
Embryology of the Cardiovascular System
Cardiac Adaptations at Birth
Non-Cyanotic Congenital Heart Disease
Embryology & Pathology of Congenital Heart Disease (Lab)

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