Cheatography

Cardio Cheat Sheet by mrfrk12 via cheatography.com/22253/cs/4514/

ACS (Acute Coronary Syndrome)

Definition

Spectrum of problems ranging from unstable angina to MI

Symptoms

Crushing pain/pressure; radiation to jaw, back, and left arm; SOB, diaphoresis, N/V; impending sense of doom

Most common etiology of MI

Preexisting atherosclerotic plaque → thrombus formation → prolonged myocardial ischemia → MI

EKG changes

Acute MI: progression from peaked T- waves → ST-de gment elevation/depression → Q-wave →T-wave inversions (hours-days)

Laboratory Tests

EKG (within 10 min), troponin levels, CK:CK-MB ratio, MRI with gadolinium

Stable Angina

Reproducible pain, improved with rest, lasts <10min,

UA/NSTEMI

Occurs more often with less activity, not relieved with NTG, lasts >10min, EKG changes

STEMI

Complete occlusion, EKG changes

Initial TreatmentClinical features of HFpEF/RHFONAM: Oxygen, +/- nitro, antiplatelets (ASA+P2Y12), morphine (PRN), EKG monitoring, IV accessDistended neck veins, hepatic congestion, nausea, dependent pitting edema, *edema + hepatomegaly, (R-sided failure) often caused by L-sided failure)Discharge Treatment1) ASA (life) 2) P2Y12 (1yr) 3) Statin 4) B-blocker 5) ACE-1 6) Aldosterone antagonistTreatment 1) Loop 2) ACE-1 3) B-blocker 4) Spironolactone 5) Hydralazine + ISDN (esp in blacks)Door-to-needle within 30min; door-to-balloon within 90minHypertension Diacks)Definition Inability of the heart to keep up the the demands on it and pump blood with normal efficiencyCauses 95% of cases of HTN; mutifactorial pathogenesis (genetics, salt, obesity, RAAS, NSAIDS, smoking, lack of exercise, metabolic syndrome)Result of one or more of the following Contractile ability of heart muscle, preload and after load of the ventricle, and heart rateNarrowing of aorta, RAS, chronic steroids, Cushings syndrome, pregnancy, thyroid and parathyroid disease, primary hyperaldosteronism, parenchymal renal dz)MI, pericardial disorders, valvular disorders, congenitial abnormalities, and non cardiac causes (high-output heart failure from thyrotoxicosis or severe anemia)All ages with DM or CKD ≤140/90 Ages <60yo ≤140/90 Ages <60yo ≤150/90 ages <60yo ≤150/90	ACS (Acute Coronary Syndrome) (cont)	Congestive Heart Failure (CHF) (cont)
 6) Aldosterone antagonist 5) Hydralazine + ISDN (esp in blacks) 5) Hydralazine + ISDN (esp in blacks) Furergency Intervention Door-to-needle within 30min; door-to-balloon within 90min Congestive Heart Failure (CHF) Definition Inability of the heart to keep up the the demands on it and pump blood with normal efficiency Result of one or more of the following Contractile ability of heart muscle, preload and after load of the ventricle, and heart rate Etiology MI, pericardial disorders, valvular disorders, congenital abnormalities, and non cardiac causes (high-output heart failure from thyrotoxicosis or severe anemia) MI, pericardial disorders, revere anemia) 	Initial Treatment ONAM: Oxygen, +/- nitro, antiplatelets (ASA+P2Y12), morphine (PRN), EKG monitoring, IV access Discharge Treatment 1) ASA (life) 2) P2Y12 (1yr) 3) Statin 4) B-blocker	Clinical features of HFpEF/RHF Distended neck veins, hepatic congestion, nausea, dependent pitting edema, *edema + hepatomegaly, (R-sided failure often caused by L-sided failure) Treatment 1) Loop 2) ACE-1 3) ß-blocker
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First line: ACE-I/ARB, CCB,Exertional dyspnea, non-productive cough, fatigue, orthopnea,PND, basilar rales, gallops,guanfacine, hydralazine,	Clinical features of HFrEF/LHF Exertional dyspnea, non-produ ctive cough, fatigue, orthopnea,	First line: ACE-I/ARB, CCB, thiazides

schemic Heart Disease

Definition

Characterized by insufficient oxygen supply to cardiac muscle

Etiology

1) Atherosclerotic narrowing (most common). 2) Constriction of coronary arteries. 3) (Rare) congenital, emboli, arteritis, dissection

Risk Factors

Metabolic syndrome, male, older age, smoking, FmHx, HTN, DM, low-estrogen state, abdominal obesity, inactivity, dyslipidemia, EtOH, low fruits/veggies (cocai ne → MI)

Un/stable Angina

See Above

Prinzmetal's (Variant) Angina

Caused by vasospasm at rest, exercise capacity preserved. Treated with CCBs, avoid ßblockers

EKG Findings

Horizontal or downsloping STsegment depression

reatment

Lifestyle changes, nitrates (nitro and LA), B-blockers, CCB, Ranolazine, ASA/Clopidigrel, revascularization

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