

CAUSES

DILATED CARDIOMYOPATHY

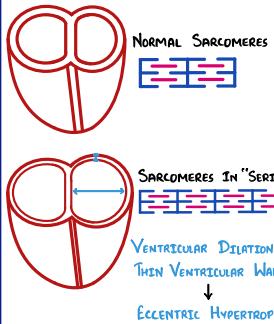
- MYOCARDIAL DYSFUNCTION DUE TO DILATED HEART CHAMBERS
- CAUSES:
 - PERIPARTUM CARDIOMYOPATHY → 3RD TRIMESTER - <6mo PP
 - TAKOTSUBO CARDIOMYOPATHY → RECENT STRESS → ST+ + TROP + → CATH NORMAL
 - TACHYCARDIC CARDIOMYOPATHY → ↑↑ HR

A
BUNCH OF STUFF
CAN
CAUSE
CARDIAC
DISSOCIATION

B
ALCOHOL ABUSE
BERI-BERI (WET)
COXSACKIE B MYOCARDITIS
CHRONIC COCAINE USE
CHAGAS'S DISEASE
DOKORUBICIN TOXICITY

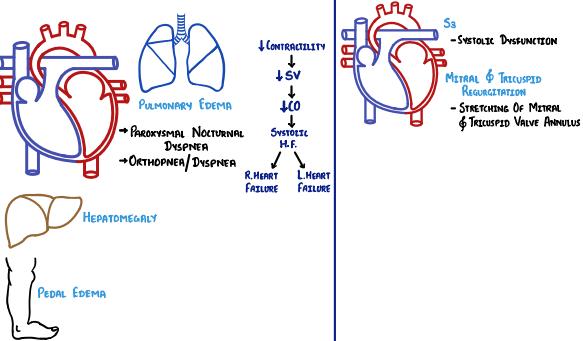
PATHOPHYSIOLOGY

DILATED CARDIOMYOPATHY



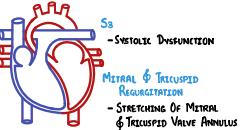
COMPLICATIONS

DILATED CARDIOMYOPATHY



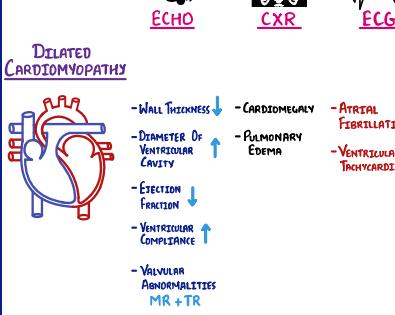
HEART SOUNDS

DILATED CARDIOMYOPATHY



DIAGNOSIS

DILATED CARDIOMYOPATHY



TREATMENT

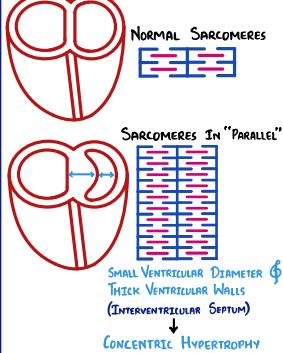
DILATED CARDIOMYOPATHY

- ↓ PRELOAD
 - DIURETICS
 - FLUID RESTRICTION
 - ISOSORBIDE DINITRATE
- ↓ AFTERLOAD
 - ACE-I / ARB's
 - HYDRAZINE
 - ISOSORBIDE DINITRATE
- ↑ CONTRACTILITY
 - DIGOXIN
- REFRACTORY CASES
 - ANTICOAGULATION (A.FIB OR AF)
 - WARFARIN
 - DOAC's
 - HEART TRANSPLANT

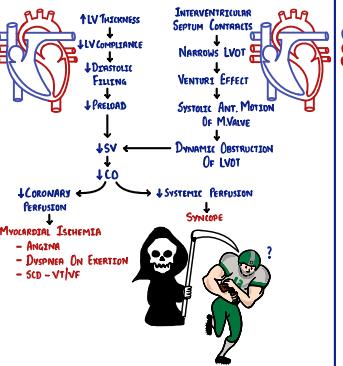
HYPERTROPHIC CARDIOMYOPATHY

- MYOCARDIAL DYSFUNCTION DUE TO ASYMMETRIC HYPERTROPHY OF THE INTERVENTRICULAR SEPTUM.
- CAUSES:
 - GENETIC
 - MUTATION IN HCM PROTEIN
 - HEAVY CHAIN OF MYOSIN (beta)
 - AUTOSOMAL DOMINANT
- FRIEDREICH ATAXIA
 - AUTOSOMAL RECESSIVE
 - TREATMENT:
 - NEUROLOGICAL IMPAIRMENT (ATAXIA)
 - HYPERTROPHIC CARDIOMYOPATHY
 - DIABETES MELLITUS

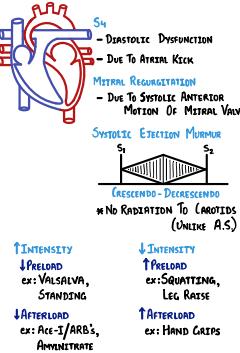
HYPERTROPHIC CARDIOMYOPATHY



HYPERTROPHIC CARDIOMYOPATHY



HYPERTROPHIC CARDIOMYOPATHY



HYPERTROPHIC CARDIOMYOPATHY

- ↓ PRELOAD
 - AVOID DEHYDRATION
- ↓ AFTERLOAD
 - AVOID:
 - ACE-I / ARB's
 - HYDRAZINE
 - ISOSORBIDE DINITRATE
 - DIPHENYLPYRIDINE CB's ex: AMLODIPINE
- ↑ CONTRACTILITY
 - AVOID DIGITS
 - GIVE BB's OR CCB

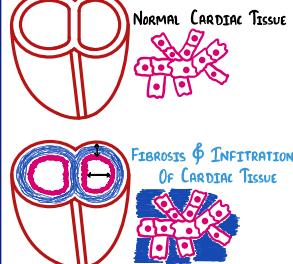
INVASIVE PROCEDURES

- MYOMECTOMY
- ALCOHOL ABLATION

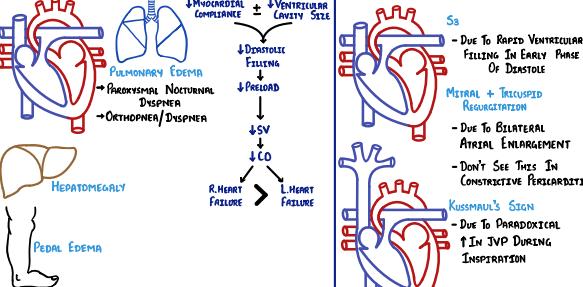
RESTRICTIVE CARDIOMYOPATHY

- MYOCARDIAL DYSFUNCTION DUE TO FIBROSIS AND/OR INFILTRATION OF CARDIAC TISSUE
- CAUSES:
 - RADIATION FIBROSIS
 - AMYLOIDOSIS
 - SARCOIDOSIS → FOUND IN BOTH RESTRICTIVE AND DILATED CARDIOMYOPATHY
 - HEMACHROMATOSIS → FOUND IN BOTH RESTRICTIVE AND DILATED CARDIOMYOPATHY

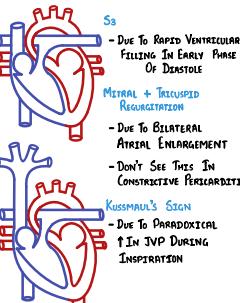
RESTRICTIVE CARDIOMYOPATHY



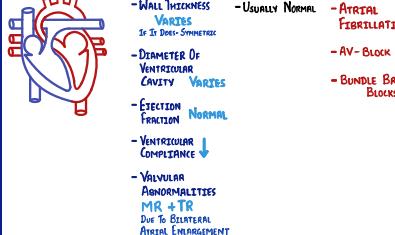
RESTRICTIVE CARDIOMYOPATHY



RESTRICTIVE CARDIOMYOPATHY



RESTRICTIVE CARDIOMYOPATHY



RESTRICTIVE CARDIOMYOPATHY

- GENTLY ↓ PRELOAD
 - DIURETICS
 - FLUID RESTRICTION
- GENTLY ↓ AFTERLOAD
 - ACE-I / ARB's
 - HYDRAZINE
 - ISOSORBIDE DINITRATE
- ANTICOAGULATION (A.FIB)
 - WARFARIN
 - DOAC's

REFRACTORY CASES

- HEART TRANSPLANT

CLINICAL PEARLS

DILATED

↑ RISK OF THROMBOEMBOLIC EVENTS

HYPERTROPHIC

MAY LEAD TO SUDDEN DEATH IN YOUNG ATHLETES

RESTRICTIVE

JVD MAY MANIFEST AS KUSSMAUL'S SIGN

CONSTRICATIVE PERICARDITIS	V	RESTRICTIVE CARDIOMYOPATHY
PERICARDIAL KNOCK	Heart Sounds	MITRAL + TRICUSPID REGURGITATION
LOW VOLTAGE	ECG	LOW VOLTAGE + CONDUCTION BLOCKS
VENTRICULAR SEPTAL BOUNCE DURING DIASTOLE	ECHO	B2 - ATRIAL ENLARGEMENT
THICKENED PERICARDIUM	CT/MRI	NORMAL PERICARDIUM
LVEDP = RVEDP	CARDIAC CATH	LVEDP > RVEDP

NINJA NERD

Juli. G