# Cheatography

### Alteration on Oxy (cardiac cyanosis) Cheat Sheet by Dani (Dan\_Niel) via cheatography.com/131883/cs/26661/

### **Cyanotic Congenital Heart Disease**

Occurs when blood is shunted from the venous to the arterial system as a result of abnormal communication bet. the two systems (deoxy to oxy. R to L shunts)

Decreased pulmonary blood flow (Right to left shunt)

### Tetralogy of Fallot (Cyanotic)

Localized narrowing of the aorta, the most common cardiac malformation responsible for cyanosis in a child over 1 year. **4 major defects:** 

Pulmonary	Ventricular septal
stenosis	defect
Aorta overriding	Right ventricular
VSD	hypertrophy

#### Pathophysiology

•PS impedes the flow of blood to lungs

•increases pressure in the right ventricle (hypertrophy)

•Forces deoxy blood through the septal defect to the left ventricle

•Overriding aorta receives blood from both right and left ventricles.

### Signs & Symptoms

•Clubbing of the fingers, murmur

•Severe dyspnea, hypercyanotic spells & acidosis

•Polycythemia & clot formation

•Failure to thrive and growth retardation.

### Treatments



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### Tetralogy of Fallot (Cyanotic) (cont)

•If O2 level ex low, prostaglandins (IV) to keep PDA open.

- •Complete repair when 6 mos. of age.
- •Closure of the VSD with dacron patch
- •The narrowed pulmonary valve is enlarged
- •Coronary arteries will be repaired
- •Hypertrophy of right heart should remodel when pressure in right side is reduced.

### Acute Rheumatic Fever (RF)

Streptococcal infections causes damage to the heart muscle and valves. All heart layers are affected.

<ul> <li>Pancarditis (all layers)</li> </ul>	<ul> <li>Pericarditis</li> </ul>
•Myocarditis	<ul> <li>Endocarditis</li> </ul>

### Pathogenesis

An acute attack of streptococcal pharyngitis by group A beta-hemolytic streptococci
Within 2-4 weeks after this attack anti-streptococcal antibodies are formed and attack the heart and the extra cardiac sites.

### **Diagnostic test**

•Throat swab, blood test, ECG heart test

### **Tricuspid Atresia (Cyanotic)**

Tricuspid valve fails to develop causing complete closure of the tricuspid valve that results in mixed blood flow.

#### Signs & Symptoms

•Cyanosis in NB, Chronic hypoxia, clubbing

•No blood flow form the right A to the right V

Heart failure, chronic hypoxemiaFailure to thrive and growth retardation.

### Diagnosis

 Listening with a steth for changes in heart sounds

•O2 sat to see how much O2 is getting into blood

•Chest x-ray to see the size & position of the heart

•ECG to check the electrical activity

•Ultrasound scan (echocardiography)

### Treatment

# •A glenn | Cavopulmonary | HemiFontan shunt

making a passage between the superior vena cava to the right lung (pulmonary) artery

### A fontan | Total Cavo-Pulmonary Connection

This operation joins the inferior vena cava to the pulmonary arteries.

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### **Erythema Marginatum**

Nonpruritic, painless erythematous rash on trunk and/or proximal extremities.

•Macular lesions with raised margins & central clearing

•May last from weeks to months

### Jones Criteria for Diagnosis of RF

### **Minor Manifestations**

Clinical: Fever, arthralgia, history of RF

Lab test: Acute phase reactants, ECG changes

### **Major Manifestations**

 Carditis: friction rub, murmur, cardiomegaly, CHF

•Arthritis: migratory polyarthritis, swollen, red, tender

•Chorea, subcutaneous nodules, Erythema marginatum

### Sydenham's Chorea

A neurologic disorder with muscular weakness, emotional lability and involuntary, uncoordinated, purposeless movement

•Disappear during sleep, lasts 2-4 months

•Mainly occurs in hands, feet and face, sensation intact

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### Acquired Heart Defects

• An autoimmune disease affecting the heart and extra cardiac sites ( joints, brain, skin)

•Occurs 10 days to 6 weeks after pharyngitis

•The disease affects children and young adults (5-15yrs)

•The disease follows upper respi infection (tonsillitis)

### **Cardiac Manifestations**

·Pericardial friction rubs, weak heart sounds

•Tachycardia, arrythmias

•Extracardiac: fever, polyarthritis, arthralgia, skin lesions, chorea

•Pharyngeal culture may be negative

• Anti streptolysin O (ASO) titer will be high

### Arthralgias and Arthritis

•May be migratory. last for 2 - 3 weeks

•Warm, swollen, tender joints, inflamed

membrane

•Usually involves the knees, ankles, elbows, and wrists

·Eroded cartilage and narrowed joint space

### Subcutaneous Nodules

Usually associated with severe carditis and occur several weeks after

•Firm, painless nodules (up to 2cm) found over bony surfaces and tendons. persist for 1-2 weeks.

•Occur near elbows, knees, wrists, achilles tendon, vertebral joints

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### Kawasaki Disease

Idiopathic multisystem disease. vasculitis of small & medium blood vessels & arteries. Usually <5 yrs old.

Mucocutaneous Ocular Syndrome (MCOS) the original name of kawasaki disease. The cause is unknown.

### **Diagnostic Criteria**

 Changes in extremities: edema, erythema, desquam.

•Polymorphous exanthem, usually truncal

•Conjunctival injection, fissuring of lips & oral cavity

•Cervical lymphadenopathy

### Symptoms

•Red eyes, changes in lips, tongue & mouth

•Redness, cracking on lips, red strawberry tongue

•Hands & feet: red, swollen, hands & soles.

•Body rash : 1st appears w/fever. bumpy to touch

•Swelling of glands in the neck, soft, painless nodes

### Phases

Acute: 1-2 weeks from onset, febrile, irritable, oral changes, rash, edema/erythema of feet

•Subacute: 2-8 weeks, desquamation, persistent arthritis or arthralgias, gradual improvement.

· Convalescent (months to years later)

### Treatment

•No single medicine can treatment or cure

Meds : Aspirin and gamma globulin

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