Heart Failure in new born Infant

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Heart failure is significant cause of mortality particularily during the first year of life. When heart failure occurs in the neonatal period it is usually due to stru~tural oongenital heart disease such as patent ductus arteriosus, coarctstion of the aorta, ventricular and atrial septal defects, aortic and pulmonary atenosis, Tricuspid regurgitation and transposition of great arteries and total anomalous pulmonary venous return. However, heart failure in the neonate may be due to other causes than structural heart disease which includemyocarditis, arrhythmias, glycogen storagedd diseas., snsemia, systemic or pulmonsry hypertension, arteriovenous fistulae, septicaemia, congenital thyrotoxicosis, hypoxemia, hypoglycemia and hypocalcaemia.from the pathophysiological point of vi •• the etiological factors of heart failure can be classified into I categories. Volume - pressure loading of the myooardium.2. Primary depression of contraotile element function. J. Arrhythmias.In the neonatal period heart failure give. rise to adistinctive clinical presentation. symptoms feedina difficultie... Common and signs are tachycardia, pulmonary rales and rhonchi, liver enlargement, and cardiomegaly. Less common manifestations include increase in systemic vanous pressure, peripheral oedema, ascites, pUlsus ulternans, gallop rhythm, and inappropriate sweating. Pleural and perioa.rdisl effusions are very rare.Rapid and accurate diagnosis is a prime importance since the appropriate management is often dependent upon the specific cause. The diagnostic approach should include good history taking, complete physical examination and chest roentgenogram. The electrocardiogram is of little use unless there is an arrhythmia. The echocardiegram and radionuclear angiography represent good non invasive methods of diagnosis, Cardiac catheterization and angiocardiography are mainly valuable preoperative procedures. The management of heart fa-ilure in the newborn rests primarily on the utilization of cardiac glycosides anddiuretics. However, surgical intervention may be called when medical measures fail talcontrol adequately the clinical manifestations.