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Honorary Editor : Dr. Dhiren Shah



From the Desk of Hon. Editor:

Dear Friends,

Greetings from CIMS Hospital CVTS department.

You all are very well aware that till date we have done 5 Successful Heart Transplants at CIMS Hospital.

I got lot of inquiries as to what are the indication, contraindication for heart transplant. Even what is the process if someone has to refer the patient for Heart Transplant. In this brief article I have tried to give you quick summary of which patients candidates for heart transplant & Once they are considered for transplant then what is further process of enrolling them in waiting list for heart transplant.

Hope this helps you in finding out right patient for transplant & you can guide them for the same.

Advanced Chronic Heart Failure and Heart Transplantation

A Guide to Clinical Decision-Making and the process for reference for Heart Transplant

Diagnosis of Advanced Chronic Heart | past 6 months despite optimal medical

Failure

Advanced chronic heart failure is defined as Stage D heart failure according to the latest ACC/AHA heart failure guidelines. It designates patients with refractory heart failure who might be eligible for specialized, advanced treatment strategies or cardiac transplantation, or for end-of-life care, such as hospice.

The clinical definition of advanced chronic heart failure is based on NYHA class 3 or 4 symptoms, severely impaired exercise capacity, and a history of at least 1 hospitalization due to heart failure in the past 6 months despite optimal medical therapy. Even advanced heart failure is punctuated by periods of more severe signs and symptoms followed by periods of compensation. Often, patients with a history of functional class 4 will respond to augmented therapy with significant lessening of symptoms. Therefore, a 3-month persistence of at least NYHA III symptoms seems to be a justifiable requirement for the diagnosis of advanced chronic heart failure.

A cardiopulmonary exercise testing in the form of VO2 max--peak oxygen consumption of <14 ml/kg/min would

Part I : Diagnosis of Advanced Chronic Heart Failure

PHYSIOLOGICAL CRITERIA

Pacudonormal / restrictive mitral flowHigh ventricular filling pressures

• Elevated 8 type natriuetic peptides

• IVFF < 30%

CLINICAL CRITERIA

NYHA III/IV

EXCERCISE TESTING

Peak VO2 < 14 ml/kg/min
6 minute walk test distance < 300 m
Inability to Excercise

Failure to improve with 3 months of optimised medical therapy

Advanced Chronic Heart Failure

Specialized heart failure / transplant center

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appear to be a reasonable diagnostic criterion for advanced heart failure, and a diagnosis of advanced heart failure would be unreasonable if peak VO2 was >18 ml/kg/min. A simple 6 minute walk distance test of less than 300 meters is again diagnostic of Advanced Heart Failure.

Evaluation of Indications for Heart Transplantation

In a specialized centre, the evaluation of patients with advanced chronic heart failure patient is based on an integrated approach that includes the assessment of candidacy for heart transplantation and alternate treatment modalities, such as Cardiac Resynchronization Therapy (CRT) or mechanical circulatory support (LVAD).

Table 1. Indications for Heart Transplantation in Advanced Chronic Heart Failure

ABSOLUTE

- Refractory cardiogenic shock
- Documented dependence on IV inotropic support to maintain adequate organ perfusion
- Peak VO2 less than 10 ml/kg/min with achievement of anaerobic metabolism
- Recurrent life-threatening ventricular arrhythmias refractory to all therapeutic modalities

RELATIVE

 Peak VO2 11 to 14 ml/kg/min (or 55% of predicted) and major limitation of the patient's daily activities After screening for absolute indication for Heart Transplant, assessment and screening for contraindications is done for which a battery of investigations are done.

Table 5. Traditional Contraindications for Heart Transplantation

Age

- Obesity
- Insulin-dependent diabetes with end-organ damage
- Irreversible renal dysfunction
- Irreversible hepatic dysfunction
- Coexistent systemic illness with a poor prognosis
- Irreversible pulmonary arterial hypertension
- Irreversible pulmonary parenchymal disease
- Acute pulmonary parenchymal disease
- Severe peripheral and/or cerebro-vascular disease
- Irreversible renal dysfunction
- Active peptic ulcer disease
- Active diverticulosis or diverticulitis
- Active infection
- Coexisting neoplasm

This battery of investigations are as follows and estimated cost for this pre transplant evaluation will be around Rs1,75,000/-.

Table 3. Required Pre-Transplant Studies in All Patients

Baseline + Q3 Months

Assessment of Heart Failure Severity

•	Cardiopulmonary exercise test	Baseline+Q1 Year
•	Echocardiogram	Baseline+Q1 Year

Right heart catheter
 Baselien+Q6 Months

Coronary angiographyBaseline

▶ ECG Baseline+Q1 Year

Evaluation of multi-organ function

	Routine lab work (BMP, CBC, LFT) Base	line+Q3 M	1onth	S
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• PT/INR Baseline+Q3 Months

Urinalvsis
 Baseline+Q3 Months

• GFR (MDRD quadratic equation) Baseline+Q3 Months

Urine sample for protein excretion
 Baseline+Q3 Months

PFT with Arterial blood gasses
 Baseline

• CXR (PA and lateral) Baseline+Q1 Year



Abo	lominal ultrasound	Baseline
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• Stool for occult blood 3x Baseline+Q1 Year

Immunocompatibility

ABO, Repeat ABO
 Baseline

HLA tissue typing Baseline

PRA and flow cytometry
 Baseline+Q2 Months

(PRA>10%, VAD, transfusion

Infectious serology and vaccination

Hepatitis B surface Ag
 Hepatitis B surface Ab
 Baseline

● Hepatitis B core Ab Baseline

Hepatitis C Ab Baseline

HIV
 Baseline

Rapid Plasma Reagin Baseline

HSV lgG
 Baseline

• CMV lgG Baseline

Toxoplasmosis lgG Baseline

■ EBV IgG Baseline

Varicella IgG
 Baseline

• PPD Baseline

General consultation

Social work, Psychology
 Baseline

Financial
 Baseline

Evaluation of multi-organ function

Carotid Doppler and lower extremity
 Baseline

arterial ultrasounds (history or coronary artery

disease, smoking, or >50 y)

Pulmonary Function Testing (smoking,
 Baseline

amiodarone use)

DEXA scan (>50 y)
 Baseline

Dental examination (poor oral hygiene)
 Baseline+Q1 Year

Ophthalmologic examination (diabetic)
 Baseline+Q1 Year

Preventive and malignancy

Colonoscopy (men > 50 y)
 Baseline

Mammography (>40 y)
 Baseline+Q1 Year

Gyn/Pap (>18 y sexually active)
 Baseline+Q1 Year

PSA and digital rectal exam (men>50y)
 Baseline+Q1 Year

After this clearance from all above contraindications, patient is enrolled on waiting list for Heart Transplant. Estimate for the Heart Transplant is given based on the reports and risk factors

Once Patient is enrolled, then patient is advised to stay within the periphery of 100 km of Ahmedabad, so that he/she can reach hospital in time once we get a call for organ donation.







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Music of Heart & Lung-Enhance Your Skills

Course Directors : Dr. Satya Gupta / Dr. Vineet Sankhla / Dr. Vipul Kapoor / Dr. Tejas V. Patel

Dr. Keyur Parikh / Dr. Milan Chaq / Dr. Urmil Shah / Dr. Hemang Baxi

Dr. Anish Chandarana / Dr. Aiav Naik

Pulmonologists: Dr. Nitesh Shah / Dr. Amit Patel / Dr. Kalpesh Panchal

Date : April 29, 2018 (Sunday)

Duration : 1 day **Number of Seats** : 50

Venue : CIMS Auditorium

Programme Overview:

Our newest auscultation course is designed to help physicians, interns, MBBS & MD students to learn different types of heart sound, murmurs and respiratory sounds. This programme will have theoretical lectures on basic concepts of heart sounds & murmurs followed by practical teaching using audio clips of various normal and abnormal heart sound, murmur and lung sound. A dedicated 2-hour session on basic aspects of various respiratory sounds and practical demonstration by audio clips.

Programme Highlights:

- Heart sounds
- Normal heart sound
- · First heart sound
- Second heart sound
- Extra heart sounds (S3 & S4)
- Systolic murmurs
- Diastolic murmurs
- Mitral valve click sound (MVP)
- Pulmonary arterial hypertension
- Mitral stenosis and regurgitation
- Aortic stenosis

- Regurgitation
- · Carotid bruit

Lung Sounds

- Vesicular normal
- Crackles fine & course
- Wheeze
- Rhonchi
- Bronchial
- · Pleural rubs

Online registration & payment on www.cims.org /clc

Registration Fees: ₹ 500/- | Spot Registration Fees: ₹ 1,000/-

Non-refundable

For any query, please email on: clc@cimshospital.org

> Certificate of attendance will be given at the end of the course.



Basic Clinical Epilepsy Learning Course

Course Directors : Dr. Shalin Shah / Dr. Pranav Joshi / Dr. Sagar Betai

Date : April 22, 2018 (Sunday)

Duration : Half day **Number of Seats** : 50

Venue : CIMS Auditorium

Programme Overview:

In this country of approximately 1 crore people with epilepsy, there is an estimated treatment gap of 22% in urban and 90% in rural population. The burden of epilepsy can be reduced in as many as 80% of the patients by appropriate management. To make the best use of resources, it is necessary to update and upgrade our knowledge and establish priorities. This has led us to develop the "EPILEPSY" learning module.

Programme Highlights:

- Approach to first seizure
- · Seizure semiology
- EEG and MRI in epilepsy
- · How to choose antiepileptic drugs
- Refractory seizures
- Status epilepticus
- Special situations: women and elderly
- AEDs in systemic and neurological diseases

Online registration & payment on www.cims.org /clc

Registration Fees: ₹ 500/- | Spot Registration Fees: ₹ 1,000/-

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HOSPITAL

CIMS GASTROENTROLOGY

State-of-the-art G.I. Physiology lab at CIMS

Esophageal Manometry

Indications:

- Difficulty in swallowing
- Regurgitation
- Reflux disease/ heartburn
- Before reflux surgery
- Chest pain (non-cardiac)



Anorectal Manometry

Indications:

- Constipation
- Incomplete evacuation
- Incontinence
- Before stoma closure
- Anal disorders in children

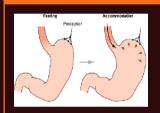


Colon Transit Study



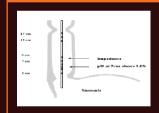
Indication: Constipation

Gastric Accommodation Testing



Indication: Abdominal bloating or fullness

24 hour pH Recording



Indication: Refractory esophegal reflux Extra esophageal GERD Before fundoplication surgery



First time by **CIMS Constipation Clinic** in India



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(5) Oncology Symposium		□ ₹ 1500	□ ₹ 1500	□ ₹ 1500	□ ₹ 2000	□₹2500
(6) IVF & Gynaec Symposium		□ ₹ 1500	□ ₹ 1500	□ ₹ 1500	□ ₹ 2000	□₹2500
(7) Critical Care Symposium		□ ₹ 1500	□ ₹ 1500	□ ₹ 1500	□ ₹ 2000	□₹2500
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For students doing MD (Medicine) with proof		□ ₹1000	□ ₹ 1500	□ ₹1500	□ ₹ 2000	□₹2000
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