

Volume-9 | Issue-104 | July 5, 2018

Price: 5/-

Honorary Editor:





Dr. Keyur Parikh Dr. Vipul Kapoor From the Desk of Hon. Editor:

Considering lesion priority and its clinical consequences, Coronary Artery Bypass Grafting (CABG) has been a treatment of choice for revascularization in patients with significant Left Main Coronary Artery (LMCA) disease. However, the patients with severe Left Main stenosis have a very high risk of major cardiovascular events because of the extent of ischaemic myocardium. So, we can say that left main coronary artery disease is the most prognostically important coronary lesion. Significant stenosis of Left Main is diagnosed in 5–7% of patients undergoing coronary angiography.

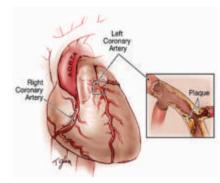
Considering lesion priority and its clinical consequences, Coronary Artery Bypass Grafting (CABG) has been a treatment of choice for revascularization in patients with significant Left Main Coronary Artery (LMCA) disease. However, with remarkable advancements in techniques of Percutaneous Coronary Intervention (PCI), supporting devices, and adjunctive pharmacologic therapy, PCI with stenting has emerged to be a less invasive and feasible revascularization treatment for these patients.

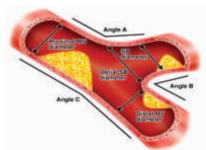
This review attempts to highlight the indications, technique and treatment modalities for Left Main disease with Multi Vessel PCI in Case of Seropositive Illness with Thrombocytopenia.

Left Main with Multi Vessel PCI (in Case of Seropositive Illness with Thrombocytopenia)

Background:

The Left Main Coronary Artery (LMCA) supplies two-thirds of blood to the heart and 100% of the blood flow to the left ventricle. The distal LMCA ends in a bifurcation, or even trifurcation, giving



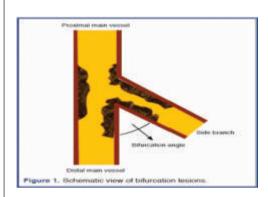


rise to the left anterior descending (LAD) and left circumflex (LCX) arteries, and probably an intermedius artery.

Left Main Distal Bifurcation Lesion:

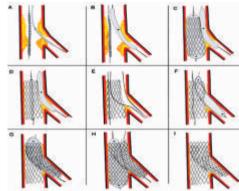
• 70% of significant LMCA lesions involve the distal bifurcation.

• Intimal atherosclerosis in the LMCA bifurcation is accelerated primarily in area of low shear stress in the lateral wall



close to the LAD and LCX bifurcation.

- LMCA stenosis is the most challenging lesion in patients with acute coronary syndromes placing the patient at high risk for life threatening LV dysfunction and arrhythmias.
- · Since the amount of myocardium at



Cardiologists				
Dr. Satya Gupta	(M) +91-99250 45780	Dr. Milan Chag	(M) +91-98240 22107	
Dr. Vineet Sankhla	(M) +91-99250 15056	Dr. Urmil Shah	(M) +91-98250 66939	
Dr. Vipul Kapoor	(M) +91-98240 99848	Dr. Hemang Baxi	(M) +91-98250 30111	
Dr. Tejas V. Patel	(M) +91-89403 05130	Dr. Anish Chandarana	(M) +91-98250 96922	
Dr. Gunvant Patel	(M) +91-98240 61266	Dr. Ajay Naik	(M) +91-98250 82666	
Dr. Keyur Parikh	(M) +91-98250 26999			

Congenital & Structural Heart Disease Specialist

Dr. Kashyap Sheth (M) +91-99246 12288 Dr. Milan Chag (M) +91-98240 22107 Dr. Divyesh Sadadiwala (M) +91-8238339980

Cardiothoracic & Vascular Surgeons

Dr. Dhiren Shah (M) +91-98255 75933 Dr. Dhaval Naik (M) +91-90991 11133 Dr. Amit Chandan (M) +91-96990 84097

Pediatric & Structural Heart Surgeons

Dr. Shaunak Shah (M) +91-98250 44502

Cardiovascular, Thoracic & Thoracoscopic Surgeon

Dr. Pranav Modi (M) +91-99240 84700

Cardiac Apaesthetists

Dr. Chintan Sheth (M) +91-91732 04454 Dr. Niren Bhavsar (M) +91-98795 71917 Dr. Hiren Dholakia (M) +91-95863 75818

Cardiac Electrophysiologist

Dr. Ajay Naik (M) +91-98250 82666 Dr. Vineet Sankhla (M) +91-99250 15056

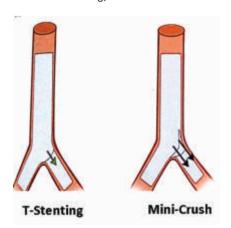
Neonatologist and Paediatric Intensivest

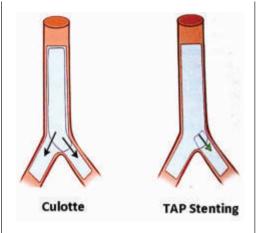
Dr. Amit Chitaliya (M) +91-90999 87400



risk is very high, the patient is often in cardiogenic shock, and the risk of death is high and even more so in left dominant coronary system.

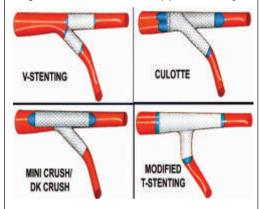
- Distal LMCA lesions are mostly treated as true bifurcation. The exception to this is when one branch is small (usually the LCX), when one branch is chronically occluded or if protected by a patent graft.
- In these circumstances the distal lesion may be stented with a single-stent technique, stenting across the ostium of the other vessel. True bifurcation lesions may be treated either by single-stent or by a two-stent strategy. Choice of strategy depends on vessel and lesion characteristics [plaque distribution, the diameter of the branches, the angle between them and anatomy of Side Branch (SB)].
- The provisional stenting is a singlestent strategy, although it allows the placement of a second stent if required [T, T and protrusion (TAP), culotte technique]. More complex lesions may require double-stent strategy (T stenting, TAP, mini-crush, double-kiss crush, culotte, V stenting).





SIGNIFICANCE OF MINI CRUSH STENTING

• The crush technique can be used when the diameter of the main vessel is greater than the side branch and the angulation is favorable (approximately



60%). The side branch is tented first, positioning the stent to allow 1– 2 mm (Mini-Crush) to protrude into the Left Main. The main vessel is then stented.

• Deployment of the main vessel stent crushes the proximal side branch stent against the Left Main wall. It is necessary to rewire the LCX, through the stent struts of both the LAD and crushed LCX stent to perform a final post-dilatation of the side branch ostium and a final 'kissing balloon' inflation.

Selection Criteria for Mini-Crush Stenting:

■ Presence of significant bifurcation

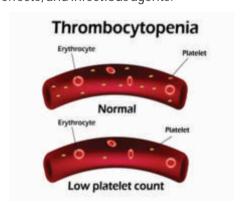
- stenosis extending into ostia of both branches
- LMCA not large enough to accommodate two stents
- Angle Between LAD and LCX More Acute (<70°)

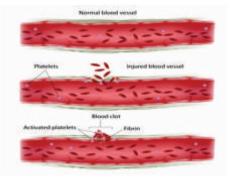
Advantages of Mini-Crush Stenting:

- Applied in clinically unstable lesions and complex anatomies
- Maintains patency of both branches
- Provides excellent coverage of SB ostium
- Allows access of SB with wires and balloon
- Better contact of SB struts against the wall

Thrombocytopenia:

• Thrombocytopenia (TP) is associated with a variety of etiologies. These include increased utilization or destruction, decreased bone marrow production, immune mechanisms, adverse drug effects, and infectious agents.







Classification of Thrombocytopenia

Classification	Platelet Count		
Mild	<150%?109/L but	100%?109/L	
Moderate	<100%?109/L but	50%?109/L	
Severe	<50%?109/L		

- Seropositive illness with Thrombocytopenia is a relatively rare finding, particularly in patients with coronary artery disease.
- Percutaneous Coronary Intervention (PCI) as well as Coronary Artery Bypass Grafting (CABG) has traditionally not been an option for patients with severe thrombo-cytopenia, because these patients are felt to be at increased risk for bleeding complications resulting from the required peri-procedural anticoagulation and post-procedural Dual Antiplatelet Therapy (DAPT).
- This speculation is indirectly supported by a recent study done by Overgaard CB et al. in which the baseline TP emerged as an independent predictor of mortality in patients undergoing PCI.

Case Presentation:

Patient Details : Gender – Male

Age - 56 years

History of : Hypertension

Presentation : Chest pain

Coronary Artery Disease

Unstable Angina TMT Positive

Triple Vessel Disease

Fair LV Systolic Function

Vitals : BP - 110/70 mmHg

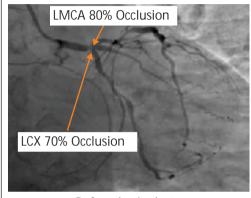
HR - 78 bpm

Platelet Count : 39000 /cmm OR

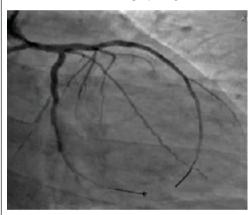
39x 109/L

Seropositive Illness ECHO Findings

Normal sized LA, LV, RA, RV.



Before Angioplasty



After Angioplasty

- Normal LV systolic function, LVEF: 55-60%
- No significant RWMA.
- Reduced LV compliance
- All cardiac valves are structurally normal.
- Mild MR (20%), mild TR, Trivial PR, No AR.
- Mild PAH, RVSP: 40 mm Hg.
- No clot/vegetation/pericardial effusion.
- No coarctation of aorta

Angiography Report CORONARIES

LMCA : Distal shows 70%

lesion

LAD : Proximal shows 60%

lesion, Mid shows 80%

lesion RAMUS

: Mid shows diffuse

disease

LCX : Non Dominant, Origin

shows 50% plaque,

Proximal 70% lesion

OM1 : Proximal shows 80%

lesion

RCA : Dominant, Proximal –

Mid shows 99% lesion

Advised for PTCA + Stenting of LMCA LAD and LCX using DES

Strategies to Minimize Bleeding Risk in Patients with Significant Thrombocytopenia

- Avoid non-steroidal anti inflammatory drugs
- Avoid glycoprotein IIb/IIIa inhibitors
- Utilize a proton pump inhibitor unless contraindicated
- Aspirin should be used in low-dose.
- If a patient is already receiving a longterm anticoagulation agent, triple therapy should be avoided
- If a patient is undergoing percutaneous coronary intervention:
 - o Radial approach preferred to femoral approach
 - o Restrict dual antiplatelet therapy to 1?month post-stent
 - o Second generation drugeluting stent preferred to bare-

metal stent



- Coronary bifurcation disease is a very challenging subset in interventional cardiology. A provisional approach with MB stenting is the preferred choice in most bifurcations lesions but it is very important to select the most appropriate approach for each bifurcation based on anatomical variables and operator experience.
- Regardless of strategy choice (one versus two stents), DES have dramatically improved the long term outcomes and should be the preferred device. We believe that the future perspective is primarily related to the development and refinement of dedicated bifurcation stents, which may simplify the procedure by adapting to the complex anatomy of

bifurcation disease, and, at the same time, improving the long-term clinical outcomes.

- In patients with severe TP, PCI is feasible and generally well tolerated. The main drawbacks are the bleeding complications, which are frequent and may have a negative clinical impact.
- Stenting of Unprotected stenosis can be performed with good results in carefully selected patients.
- For the Unprotected bifurcation, single stent strategies are still preferred and should yield acceptable results for >80% of cases.
- Careful management with the radial artery as the access site, DES implantation and a short DAPT protocol

may help to improve their outcome.

 Also, close monitoring is crucial to improve compliance with therapy and minimize adverse events.

Dr. Keyur Parikh MD (USA), FCSI (India), FACC (USA), FSCAI (USA) Interventional Cardiologist Mo. 98250 26999



CIMS Learning Centre

Skills Development Centre

August 12, 2018

(Sunday)

ORAL CAVITY CANCER OVERVIEW

Course Directors : Dr. Darshan Bhansali / Dr. Jayesh V. Patel / Dr. Tarang Patel

Dr. Natu Patel / Dr. Devang Bhavsar

Duration : 1 day Number of seats : 50

Venue : CIMS Auditorium

Programme Overview:

India is the capital country for oral cavity cancers. It is important to have a sound knowledge of oral cavity anatomy for good management and outcomes. This programme is crafted for all those who deal with oral cavity cancers and the updated knowledge on the management is the need of the hour. This course is helpful for ENT surgeons, dental surgeons, surgical residents.

Programme Highlights:

- Surgical anatomy and its implications
- Diagnosis and pathology of oral cancers alongwith outline of premalignant lesions
- · Factors affecting plan of treatment
- · Imaging-which, when and why
- Reconstruction methods
- · Adjuvant (radiation & chemotherapy) treatments

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

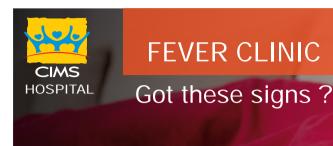
Registration Fees: `500/- | Spot Registration Fees: `1,000/-

Non-refundable

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

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











Signs & Symptoms

High Fever Muscle & Joint pains Pain behind the eyes Diarrhea & Vomiting Skin Rashes





Signs & Symptoms Diarrhea & Vomiting

Sweating Headache Nausea Abdominal Pain Shaking Chills - High Fever Chills and Rigors

CHIKUNGUNYA



Signs & Symptoms

Fever Joint Pains Muscle Pains Headache Nausea



Signs & Symptoms

High Fever Bodyache Headache and Malaise Cough and Cold Sore Throat Diarrhea Vomiting or Nausea

Complications could occur due to Swine Flu and could involve different organs such as Lung injury, Pneumonia, Kidney Failure, Brain Infection,

etc.

FEVER CLINIC HELPLINE + 91-70 69 00 00 00

ISOLATION UNIT

One-of-its-kind Isolation Unit for Critically ill Patients









"We look forward to save lives."

H1N1 Influenza (Swine Flu) vaccine is available at CIMS Hospital.

Get Vaccinated Today For Appointment & Information Contact :- Mr. Dixit Chaudhari +91-9099067988





Off. Science City Road, Ahmedabad - 380060 Ph.: +91-79-2771 2771-72 | Fax: +91-79-2771 2770

Email: info@cims.org | www.cims.org













AMBULANCE: +91-98 24 45 00 00 | EMERGENCY: +91-97 23 45 00 00 | 24 X 7 MEDICAL HELP LINE +91-70 69 00 00 00







15th Annual Scientific Symposium 24th Year of Academics

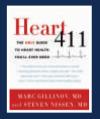
Download Registration Form

"Jic India" Application Available





AN OFFER
YOU SHOULDN'T
MISS!



Register Early to Book Your **"Heart 411"**by World Renowned Cardiologist
- **Dr. Steven Nissen**

And also a "Special Master Class"

by

Dr. Steven Nissen with Early Registration

Cancellation of Registration will be accepted upto November 30, 2018

Visit www.jicindia.org for more information

Organized by

GMERS Medical College , Sola, Ahmedabad Supported by

Care Institute
Medical Society
for Research
and Education

In Association with



Conference Secretariat

CIMS Hospital, Nr. Shukan Mall, Off Science City Road, Sola, Ahmedabad - 380060. Ph.: +91-79-3010 1059/1060
Fax: +91 -79-2771 2770 (M) +91 -98250 66664, 98250 66668
Email: communication@cimshospital.org | www.jicindia.org





CIMSTEMI

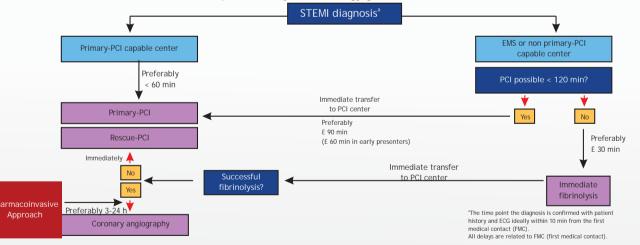
FOR FAST LIFE-SAVING HEART TREATMENT

What is STEMI?

The most deadly type of Heart Attack where in coronary artery gets completely blocked



Pre-hospital and in-hospital management, and reperfusion strategies within 24 h of FMC European Society of Cardiology guidelines



Cath = catheterization laboratory; EMS = emergency medical system; FMC=first medical contact; PCI = percutaneous coronary intervention; STEMI = ST-segment elevation myocardial infarction.



ACC - American College of Cardiology Centre of Excellence

One of the only Centres in India for high-standards of medical practice and dedication in providing quality cardiovascular care

*As early as possible after onset of Heart Attack (STEMI)

24 X 7 HELPLINE +91-70690 00000



Off. Science City Road, Ahmedabad - 380060 Email : info@cims.org | www.cims.org





f **y** in **B** 8⁺



Healthy Heart Registered under RNI No. GUJENG/2008/28043

Published on 5th of every month

Permitted to post at PSO, Ahmedabad-380002 on the 12th to 17th of every month under Postal Registration No. GAMC-1725/2018-2020 issued by SSP Ahmedabad valid upto 31st December, 2020 Licence to Post Without Prepayment No. PMG/HQ/055/2018-20 valid upto 31st December, 2020

If undelivered Please Return to:

CIMS Hospital, Nr. Shukan Mall,

Off Science City Road, Sola, Ahmedabad-380060.

Ph.: +91-79-2771 2771-72

Fax: +91-79-2771 2770

Mobile: +91-98250 66664, 98250 66668

Subscribe "Healthy Heart": Get your "Healthy Heart", the information of the latest medical updates only `60/- for one year. To subscribe pay `60/- in cash or cheque/DD at CIMS Hospital Pvt. Ltd. Nr. Shukan Mall, Off Science City Road, Sola, Ahmedabad-380060. Phone: +91-79-3010 1059 / 3010 1060. Cheque/DD should be in the name of: "CIMS Hospital Pvt. Ltd." Please provide your complete postal address with pincode, phone, mobile and email id along with your subscription



CIMS Learning Centre

Skills Development Centre

OPHTHALMOLOGY

Course Director : Dr. Smita Dheer

Duration : 1 day
Number of Seats : 50

Venue : CIMS Auditorium

July 22, 2018 (Sunday)

Programme Overview:

As Diabetes is one of the commonest ailment we come across as general practioners, we are going to discuss correlation of diabetic eye diseases (retinopathy) with glycemic control and nephropathy. A multi-specialist team of ophthalmologist, nephrologist and endocrinologist will form a panel at this course.

Red Eyes and common eye problems will also be discussed to impact daily practice. Interesting cases will be presented to help in day to day clinical practice along with an insight into cataract surgery how it has evolved, and what is the future.

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

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

Non-refundable

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

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

CIMS Hospital : Regd Office: Plot No.67/1, Opp. Panchamrut Bunglows, Nr. Shukan Mall, Off Science City Road, Sola, Ahmedabad - 380060.

Ph.: +91-79-2771 2771-72 Fax: +91-79-2771 2770.

CIMS Hospital Pvt. Ltd. | CIN: U85110GJ2001PTC039962 | info@cims.org | www.cims.org

Printed, Published and Edited by Dr. Keyur Parikh on behalf of the CIMS Hospital Printed at Hari Om Printery, 15/1, Nagori Estate, Opp. E.S.I. Dispensary, Dudheshwar Road, Ahmedabad-380004. Published from CIMS Hospital, Nr. Shukan Mall, Off Science City Road, Sola, Ahmedabad-380060.

