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OUTCOME OF PATIENTS WHO REQUIRE IABP IN CORONARY CARE UNIT

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Parin Sangoi¹, Ajit Mullasari²

¹Cardiology Trainee, Madras Medical Mission, India

²Director Cardiology, Madras Medical Mission, India

Address for Correspondence: serviceheb@gmail.com

Introduction: IABP is a **MCS device** which augments coronary blood flow and reduces afterload, cardiac work and myocardial oxygen consumption. Current indications include ACS/Non-ACS CS, high risk PCI, VSR/MR following MI and arrhythmia refractory to medical treatment.

Aim: To study various clinical outcomes, MACCE, complications and factors that determine MACCE in patients who have undergone IABP insertion.

Methods:

Study site: MMM CCU

Study population: Pts presenting to MMM ER with various indications for IABP.

Study design: Prospective, longitudinal, observational study

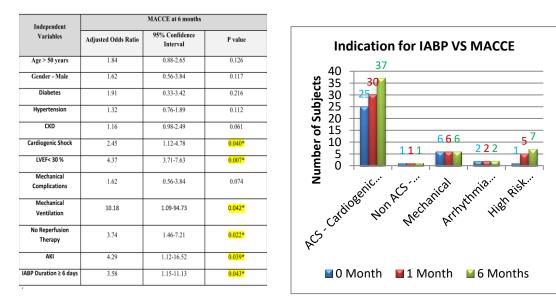
Sample size: 105

Time period: 1-12-2016 to 30-11-2017 (1 yr)

Inclusion: Pts with cardiogenic shock (ACS/ Non ACS), mechanical complications following MI, refractory arrhythmias

Exclusion: No intrinsic cardiac activity, CPR> 30 min, severe PAD, > mild AR, age > 90 yrs

Indication for IABP VS MACCE



Results:

- Age , Gender, DM, HTN , Smoking , Dyslipidemia, CKD did not affect the IABP running time.
- 84.9% pts were in CS,
- 98.11% pts had LVEF < 45%, 51% pts has EF < 30%
- 72.64% underwent IABP insertion due to ACS/CS
- 9.4% pts had VSR / severe MR, 33% pts AKI
- 5.66% pts develop IABP complications, 15%-RRT
- 50% pts had MACCE at 6 months,
- Event free survival- highest for non ACS- CS
- MACCE 10 times > in pts on Mech ventilation

Discussion:

- Baseline characteristics and clinical profile of the patients was comparable to studies done in the past
- In hospital survival 68%, 50% pts MACCE at 6 months 36% pts had died, 12% pts had HF admission, 1% pts had stroke, 1% pts underwent repeat revascularisation.
- In hospital mortality highest on 1st day. MACC events highest for mechanical complications following MI.
- IABP complication were -infection at the site (2%) ,hematoma (1%), limb ischaemia (2%) , stroke (1%)
- Pts on MV, EF<30% , AKI, IABP duration ≥6 days , CS significant predictors of MACCE at 6 months.

Conclusions:

- Overall MACCE : 50% at 6 months
- Pts developing MACCE : highest for ACS/CS as regards no of pts, events highest for mech compln.
- IABP complications observed in 6% patients & risk factors were dyslipidemia, DM, Smoking Systemic HTN
- Statistically significant predictors of MACCE at 6 months were mech. ventilation, LVEF < 30%, AKI, no reperfusion therapy, IABP ≥6 days & CS.
- Pts in the 1 day and ≥ 6 days IABP duration groups had higher MACCE in hospital & at 6 months.

References:

- 1. Kantrowitz A, Tjonneland S, Freed PS, Phillips SJ, Butner AN, Sherman JL Jr. Initial clinical experience with intraaortic balloon pumping in cardiogenic shock. JAMA. 1968; 203:113–8.
- van Nunen LX, van 't Veer M, Schampaert S, Steerneman BJ, Rutten MC, van de Vosse FN, Pijls NH. Intra-aortic balloon counterpulsation in acute myocardial infarction: old and emerging indications. *Neth Heart J.* 2013;21: Page No.554–560.
- 3. Judith S Hochmanetal, Early Revascularization in Acute Myocardial Infarction Complicated by Cardiogenic Shock(SHOCK trial), N Engl J Med 1999; 341: Page No.625-634.

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