Mechanical Assistance Device in Covid Patients?

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Congestive heart failure refractory with the new inotropes non depending calcium, prone ventilation is not working, cytokines storm aggressive and the critical care doctor is desperate, because the drugs is not working, right ventricular failure? Is the hospital has impella? Is the hospital has ECMO? Left ventricular dysfunction is aortic balloon counter pulsation available? Is assistance device available?

Let me tell you a little thing. Corona disease fatalities rate is 7 per cent May 2020. Intra-aortic balloon pump improves the circulatory failure in cardiogenic shock. The balloon depends how tall are you if you are 5 feet you use 34 cm balloon, 40 cms if you are 6 feet tall, 6 feet tall more than 50 cms different companies data scope, arrow. A biomed has the balloon tandem heart/cardiac assist provide left atrial to femoral artery bypass and can be insert in the cath lab by fluoroscopy. The impella/abioimed trial protec 1 and 2 show 552 patients with 3 vessel disease vs ABCP no different. The impella heart pump in covid19 with right heart failure or decompensation approve in June 1, 2020 with authorization of Food drugs administration that impella can use temporally in right ventricular support and heart failure pulmonary embolism. Acute pulmonary embolism is a life-threatening syndrome, that we need to treat with Rtpa/thrombolytic drugs balloon, thrombectomy by a Washington protocol if fail we need mechanical assistance device like impella. Report for use patients young, covid 19, drugs addict develop biventricular failure and sudden death with handheld ultrasonic device monitoring the event is sad in our eyes, working to save the patients an dye. Early recognition of right ventricular failure is vital. In 2017 FDA approval to support 14 days body surface 1.5 mts for patients acute myocardial infarction, post open heart surgery or pretransplant? How many dr are familiar with this devices, technique, protocols in covids? a think just the critical care drs because no drs arounds everybody are scare about this virus. The impella you can access intravascular peripheral. Is the patient wait for a transplant he can wait 15 to 30 days. The recovery trial with 30 patients/recovery right prospected multicentric trial. They are different impella 2.5, impella CP, impella/ld. The impella axial flow pump and the tandem heart connection femoral artery to atrial right/cardiac assist/Ecmo: is the term extracorporeal membrane oxygenation was initially use to describe extracorporeal support. Now you can use post operation cardiac surgery, now we prefer extracorporeal life support. This technique is different a cardiopulmonary bypass because is with transthoracic cannulation and ecmo is cervical approach. Ecmo is for intrinsic recovery of the lungs and heart. This Tanique born in 1953 by gibbon, kirkling repair atrial septal defect/asd 1955, 1965 in respiratory failure and now in post op congenital heart disease. The potential in pandemic covids of these device in patients with massive pulmonary embolism is interesting. In the transplant patient with covid is really a high risk for mortality that data in march2020 shown fatalities rate 28 patients 25 per cents JAMA online cardiology 2020. Comorbidities as a many cardiac patients diabetes, arterial hypertension CKD/chronic kidney disease, transplant prothesis, cardiac vasculopathy, require hospitalization with covid79 per cent. 25 require ICI and mechanical ventilation. We don’t took about the heart mate because the recall by food drugs administration.

The tandem heart is interesting for the introductory is 11 to 17 French. In conclusion in critical patient with heart refractory right or left failure we need to choose the more easy an effective artificial device depends of the device available in your medical center.

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