





# Ventricular Assist Device AHC Experience

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#### Outline:

- · Heart Failure worldwide
- · Main challenge
- · Specialist HF nurse
- · Ventricular Assist Device
- Indications of VAD
- · Criteria of Selection
- VAD Devices
- VAD Devices Parameters
- Complications
- Health Teaching



#### **Heart Failure worldwide**



26 million

HF patients worldwide

1-2%

Prevalence of HF (8-10% in elderly)

74%

HF patients suffering from at least one co-morbidity

#### **Furthermore**

The most common cause of hospital readmission as well as high mortality rate The annual cost associated with HF in USA is estimated to 37\$ Billion

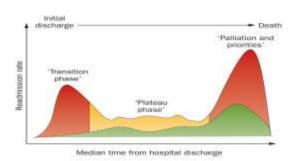


## Main challenge: Re-hospitalization for HF





Nearly 1 out of 2 patients (46%) are rehospitalized for heart failure within the 60-day post discharge period\*





# Heart Failure

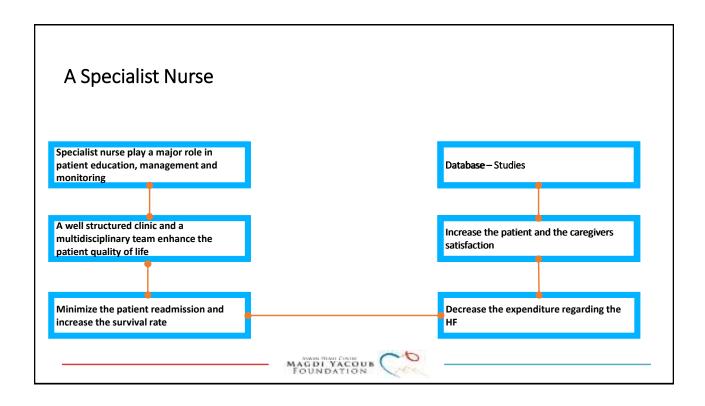




## Essential components of successful heart failure care

- Specialist HF nurse
- Specialist HF Cardiologist
- Adherence to guidelines
- A HF outpatient clinics
- A multiprofessional team



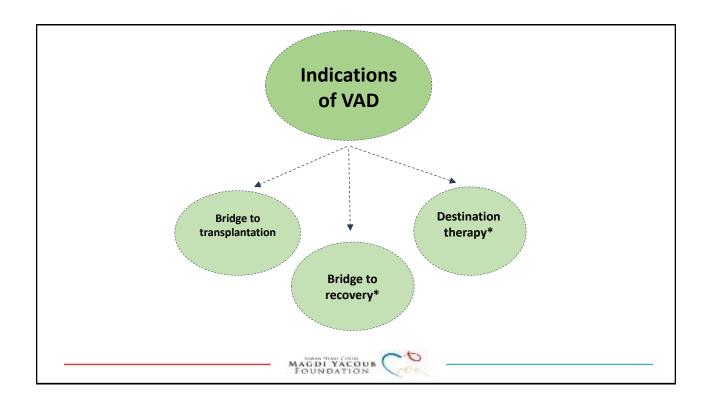


### **Ventricular Assist Device**

A single system device that is surgically attached to the ventricles of the heart and to the aorta

A VAD is designed to circulate the blood in the pulmonary and/or systemic circulation when the natural heart is unable to maintain normal blood flows and pressures.

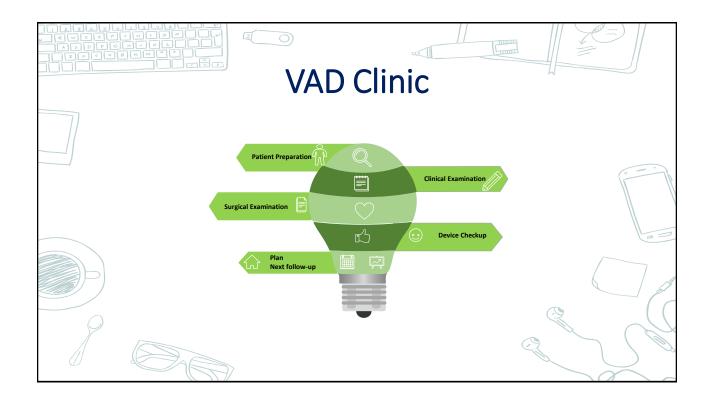


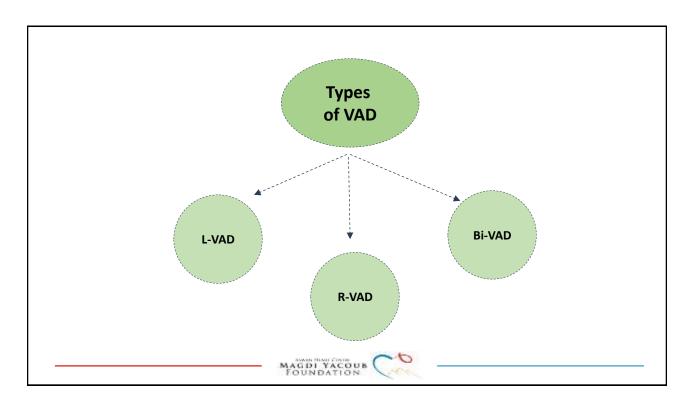


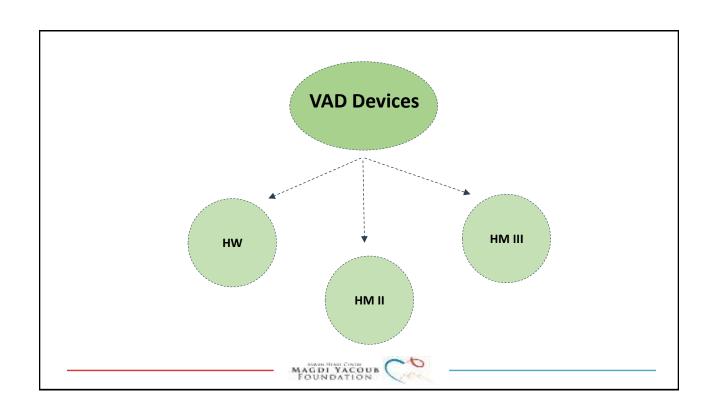
#### **Criteria of Selection**

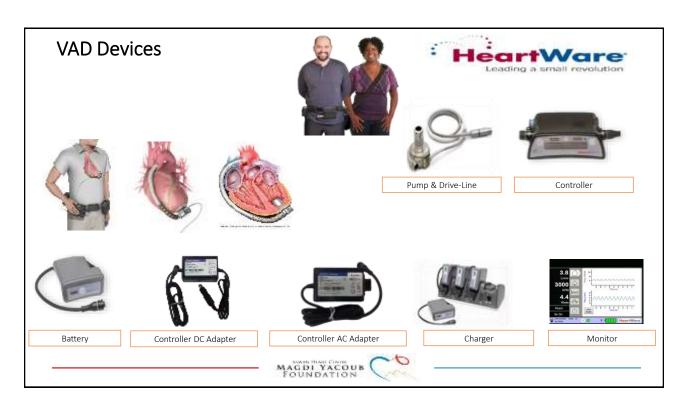
- Free of any comorbidities
- NYHA III & IV
- Frequent hospitalization episodes for the previous 6 months
- Educational level and cognitive functioning
- Presence of caregivers



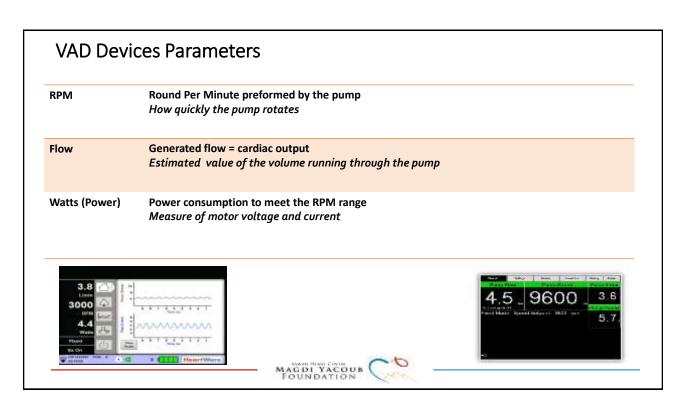












## **Complications**

Anticoagulants drugs Issues Infection **Device malfunctions** 





## **Health Teaching**

- · Pre-Surgery Orientation
- **Device Training**
- Medications
- INR Monitoring
- Wound Care
- Shower and personal hygiene
- Diet
- **Activities Social support behaviors**
- Emergency and Transportation
- Follow Up Visits



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# "I Have A Dream"

Martin Luther King



