

# Echocardiography protocol for ARVD examination at Johns Hopkins Echo laboratories

## Standard full echocardiogram

### Areas of focus:

#### *Left ventricle*

1. LV dimension in systole and diastole
2. LV ejection fraction
3. Wall motion analysis – normal; hypo- or akinesis
4. Septal tissue Doppler

#### *Right ventricle*

1. RV dimension in systole and diastole
  - i. **PLAX RVOT diameter - diastolic**
  - ii. **PSAX RVOT diameter - diastolic**
2. RV ejection fraction and **fractional shortening**
3. Wall motion analysis
  - i. Normal
  - ii. Hypo or akinesis
  - iii. Dyskinesis or aneurysm
4. Septal tissue Doppler of RV free wall

#### *RVSP – standard protocol*

#### *Valves– standard protocol*

#### *Pericardial effusion– standard protocol*

#### *Interatrial septum– standard protocol*

#### *TDI – RV AND ALL LV WALLS – PER – standard protocol*

#### **PLAX RVOT diameter**

##### **MAJOR**

≥32 mm (≥19 mm indexed)

##### **MINOR**

≥29-32 mm (≥16-19 mm indexed)

#### **PSAX RVOT diameter**

##### **MAJOR**

≥36 mm (≥21 mm indexed)

##### **MINOR**

≥32-36 mm (≥18-21 mm indexed)

#### **RV FRACT AREA CHANGE**

##### **MAJOR**

≤33 %

##### **MINOR**

≥33 <40%