Figure 3: Echo Protocol, Measurements and Iowa Scoring System

IMAGE LIST

High PSAx

- Color compare sweep (juxtaductal arch to PA)
- Color compare of PDA
- PDA doppler

PSAx

 Color compare sweep at the Pulmonary valve/MPA

PLAx

- 2D (LA-Ao ratio)
- MMode across Ao/LA

A4C

- Color compare sweep (posterior [IVC] to anterior [PA])
- Pulm Vein doppler (only need 1)
- · Mitral PW (above, at, below)
- · MV inflow/AV outflow doppler
- Ao PW/CW
- PA PW/CW

Subcostal

Desc AO doppler

Notch

- Color compare sweep (pt's R-L)
- Distal transverse arch doppler (r/o coarc)

Measurements

M-Mode

- PSAx (just below the mitral valve leaflet tips in between the papillary muscles)
 - ♦ RVd
 - IVSd
 - LVDd
 - LVPWd
 - IVSs
 - LVDs
- ◆ LVPW: 2. PLAx
 - ♦ AOd
 - AUG

2D

- 1. PDA diameter (in ductal view 2D)
- 2. Aortic valve annulus (PLAx)
- 3. Pulmonary valve annulus (PSAx)
- 4. Mitral valve annulus (A4C)
- 5. Tricuspid valve annulus (A4C)
- 6. LPA diameter (2D)

Doppler

1. PDA peak velocity

(w/ continuous L-R shunt)

- 2. RVOT, PI peak, PI end diastole, PV, LPA, RPA peak velocities
- 3. MV E and A ratio
- 4. LVOT, AoV peak velocities
- 5. TR
- 6. Descending aorta peak velocity

Report Template:

PV D Wave Velocity

Mitral E Wave Velocity

IVRT

LA:Ao ratio

LVO:RVO ratio (formulas on bottom left)

Aortic diastolic flow reversal (Y/N)

PDA Diameter/Pt Wt

Ductal Dependent lesion? (Y/N)

IOWA PDA SCORE	0 points	1 points	2 points
Mitral E Velocity	< 45	45-80	≥80
IVRT	> 50	30-50	≤ 30
PV D Velocity	< 0.3	0.3-0.5	<u>></u> 0.5
LA:Ao Ratio	< 1.3	1.3-2.2	<u>≥</u> 2.2
LVO:RVO	<u><</u> 1	1-1.7	≥ 1.7
Aortic (or peripheral) flow	Forward		Reverse
PDA diameter/wt (mm/kg)	<1.5	1.5-3.0	<u>></u> 3.0