Demographics

Your CHSS recode number is: ____________________________

Role of Data Entry Person

- Surgeon
- Echocardiographer
- Echo Technician
- Resident
- Fellow
- Clinical Coordinator
- STS Data Manager
- Clinical Research Coordinator
- Other (please specify) ____________________________

If other, please specify ____________________________

Please input surgeon's code ____________________________
(Please enter code with format ####-####)

Procedure

- Ventricular Septal Defect (VSD) Repair
- Tetralogy of Fallot Repair
- Complete Atrioventricular Canal Repair
- Arterial Switch (TGA)

Date of Index operation (YYYY-MM-DD) ____________________________

Demographics Information

Age at Procedure (please enter number) ____________________________

Age at Procedure (select applicable unit)

- Days
- Month
- Year

Patient sedated during echo?

- Yes
- No
- Unknown

Weight at operation (kg) ____________________________

Height at operation (cm) ____________________________

Please click "SAVE and GO to NEXT FORM" button to continue to input data.
## Technical Assessment Project Data Entry Sheet

### Ventricular Septal Defect (VSD) Repair

**Type of VSD**
- Perimembranous
- Subarterial/supracristal
- Muscular: multiple
- Muscular: Single anterior
- Muscular: Single posterior
- Muscular: Single apical
- Other

_____ If other, please specify: _____________________________

**Attempted to perform ASD repair?**
- Yes, intended complete closure.
- Yes, intended partial closure.
- No intention to modify ASD.
- N/A - no ASD present.

___ Is there a residual ASD?
- Yes
- No

_____ Residual ASD diameter (mm)
- < 1
- 1
- 2
- 3
- 4
- >=5

**Attempted to perform VSD repair?**
- Yes, intended complete closure.
- Yes, intended partial closure.
- No intention to modify VSD.
- N/A - no VSD present.

___ Is there a residual VSD?
- Yes
- No

_____ Subjective assessment of residual VSD
- None
- Trivial
- Small
- Medium
- Large

_____ Residual VSD diameter (mm)
- < 1
- 1
- 2
- 3
- 4
- >=5

**Was PDA ligated?**
- Yes
- No
- N/A - no lesion

___ Is there a residual PDA?
- Yes
- No
- not applicable

___ TV take down
- Yes
- No
Attempted to perform Tricuspid Valve Repair?
- Yes
- No
- N/A - no lesion

____ TV Stenosis after VSD closure:
- None
- Trivial
- Mild
- Mod
- Severe

____ Mean gradient (mmHg)

____ TV Insufficiency after VSD closure:
- None
- Trivial
- Mild
- Mod
- Severe

____ Vena contracta (mm)

____ Jet width (mm)

Unplanned permanent pacemaker
- Yes
- No

Newly onset post-op Aortic Valve insufficiency
- Yes
- No

___ If yes then :
- Trivial
- Mild
- Moderate
- Severe

____ Vena contracta (mm)

____ Jet width (mm)

Tetralogy of Fallot, Pulmonary Stenosis (TOF, PS)  Repair

Attempted to perform ASD repair?
- Yes, intended complete closure.
- Yes, intended partial closure.
- No intention to modify ASD.
- N/A - no ASD present.

___ Is there a residual ASD?
- Yes
- No

_____Residual ASD diameter (mm)
- < 1
- 1
- 2
- 3
- 4
- >=5

Attempted to close VSD?
- Yes, intended complete closure.
- Yes, intended partial closure.
- No intention to modify VSD.

___ Is there an UNINTENDED residual VSD?
- Yes
- No
_____ Residual VSD diameter (mm)  
O < 1  
O 1  
O 2  
O 3  
O 4  
O >=5  

_____ Subjective assessment of residual VSD:  
O None  
O Trivial  
O Small  
O Medium  
O Large  

_____ Residual shunt Peak gradient (mmHg)  

Attempted to perform Tricuspid Valve Repair?  
O Yes  
O No  
O N/A - no lesion  

_____ TV Stenosis after VSD closure:  
O None  
O Trivial  
O Mild  
O Mod  
O Severe  

_____ Mean gradient inflow across TV (mmHg)  

_____ TV Insufficiency after VSD closure:  
O None  
O Trivial  
O Mild  
O Mod  
O Severe  

_____ Vena contracta (mm)  

_____ TR PIPG (mmHg)  

_____ Jet width (mm)  

Type of Pulmonary Valve procedure  
O Pulmonary Valve sparing procedure  
O Transannular patch (TAP)  
O RV-PA conduit  

Residual Pulmonary Valve Regurg :  
O None  
O Trivial  
O Mild  
O Mod  
O Severe  

_____ Vena contracta (mm)  

_____ Jet width (mm)  

Residual Pulmonary Valve stenosis:  
O None  
O Trivial  
O Mild  
O Mod  
O Severe  

_____ Peak gradient (mmHg)  

_____ Mean gradient (mmHg)  

Attempted relief of RVOTO  
O Yes  
O No  

Residual RVOT stenosis  
O Yes  
O No
Subjective assessment of RVOT obstruction

- None
- Trivial
- Mild
- Mod
- Severe

RVOT Peak gradient (mmHg)

RVOT mean gradient (mmHg)

Systemic arterial pressure, systolic only (mmHg)

Attempted to perform branch PA Plasty?

- Yes
- No
- N/A - no lesion

---

**Left PA**

Is there residual stenosis

- Yes
- No

_____ Subjective assessment of LPA residual stenosis

- None
- Trivial
- Mild
- Mod
- Severe

_____ Narrowest LPA Diameter (mm)

_____ Post-op LPA Peak gradient (mmHg)

---

**Right PA:**

Is there residual stenosis

- Yes
- No

_____ Subjective assessment of RPA residual stenosis

- None
- Trivial
- Mild
- Mod
- Severe

_____ Narrowest RPA Diameter (mm)

_____ Post-op RPA Peak gradient (mmHg)

Attempted to perform PDA ligation?

- Yes
- No
- N/A - no lesion

___ Is there a residual PDA?

- Yes
- No

Unplanned permanent pacemaker?

- Yes
- No
Complete Atrioventricular Canal Repair (balanced)

Attempted to perform ASD repair?
- Yes, intended complete closure.
- Yes, intended partial closure.
- No intention to modify ASD.
- N/A - no ASD present.
- ___ Is there a residual ASD?
  - Yes
  - No
- ____ Residual ASD diameter (mm)
  - < 1
  - 1
  - 2
  - 3
  - 4
  - >=5

Attempted to perform PDA ligation?
- Yes
- No
- N/A - no lesion
- ___ Is there a residual PDA?
  - Yes
  - No

Attempted to perform VSD repair?
- Yes
- No
- N/A - no lesion
- ___ Is there a residual VSD?
  - Yes
  - No
- ____ Residual VSD diameter (mm)
  - < 1
  - 1
  - 2
  - 3
  - 4
  - >=5

____ Residual Peak gradient (mmHg)

Attempted to perform Left AV valve plasty?
- Yes
- No
- N/A - no lesion
- ___ If other, please specify
  - Cleft closure
  - Annuloplasty
  - Commisuroplasty
  - Other

- ____ LAVV Stenosis:
  - None
  - Trivial
  - Mild
  - Mod
  - Severe

- ___ LAVV mean inflow gradient (mmHg)
- ___ LAVV Regurgitation:
  - None
  - Trivial
  - Mild
  - Mod
  - Severe

- ___ Vena contracta (mm)
Confidential

_____ Jet width (mm)

Attempted to perform Right AV valve plasty?  
- Yes
- No
- N/A - no lesion

☐ Cleft closure  
☐ Annuloplasty  
☐ Commisuroplasty  
☐ Other

_____ If other, please specify

_____ RAVV Stenosis:
- None
- Trivial
- Mild
- Mod
- Severe

_____ RAVV mean inflow gradient (mmHg)

_____ RAVV Regurgitation:
- None
- Trivial
- Mild
- Mod
- Severe

_____ Vena contracta (mm)

_____ Peak instantaneous pressure gradient (mmHg)

_____ Jet width (mm)

LVOT Obstruction  
- Yes
- No
- N/A - no lesion

_____ LVOT Peak gradient (mmHg)

_____ LVOT mean gradient (mmHg)

Unplanned permanent pacemaker  
- Yes
- No

Arterial Switch (TGA)

Was there a VSD?  
- Yes
- No

_____ Was closure attempted?  
- Yes
- No

__________ What type of closure was attempted?  
☐ perimembranous  
☐ supracristal/subarterial  
☐ muscular (all)  
☐ anterior malalignment  
☐ posterior malalignment  
☐ inlet  
☐ other

__________ specify if "other"

__________ Was there a residual VSD?  
- Yes
- No
<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualitative assessment of residual VSD</td>
<td>- not stated</td>
</tr>
<tr>
<td></td>
<td>- trivial</td>
</tr>
<tr>
<td></td>
<td>- small</td>
</tr>
<tr>
<td></td>
<td>- medium</td>
</tr>
<tr>
<td></td>
<td>- large</td>
</tr>
<tr>
<td>Measurement of residual VSD</td>
<td>- &lt; 1mm</td>
</tr>
<tr>
<td></td>
<td>- 1 mm</td>
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<tr>
<td></td>
<td>- 2 mm</td>
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<td>- 3 mm</td>
</tr>
<tr>
<td></td>
<td>- 4 mm</td>
</tr>
<tr>
<td></td>
<td>- &gt;=5 mm</td>
</tr>
<tr>
<td>Attempted to perform ASD repair, secundum?</td>
<td>- Yes</td>
</tr>
<tr>
<td></td>
<td>- No</td>
</tr>
<tr>
<td></td>
<td>- N/A - no lesion</td>
</tr>
<tr>
<td>Is there a residual ASD?</td>
<td>- Yes</td>
</tr>
<tr>
<td></td>
<td>- No</td>
</tr>
<tr>
<td>Residual secundum ASD diameter (mm)</td>
<td>- &lt; 1</td>
</tr>
<tr>
<td></td>
<td>- 1</td>
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<td></td>
<td>- 2</td>
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<td>- 3</td>
</tr>
<tr>
<td></td>
<td>- 4</td>
</tr>
<tr>
<td></td>
<td>- &gt;=5</td>
</tr>
<tr>
<td>Attempted to perform Supra-aortic anastomosis (neoorta)</td>
<td>- Yes</td>
</tr>
<tr>
<td></td>
<td>- No</td>
</tr>
<tr>
<td></td>
<td>- N/A - no lesion</td>
</tr>
<tr>
<td>Is there a residual stenosis?</td>
<td>- Yes</td>
</tr>
<tr>
<td></td>
<td>- No</td>
</tr>
<tr>
<td>Subjective assessment of residual stenosis</td>
<td>- None</td>
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<tr>
<td></td>
<td>- Trivial</td>
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<td></td>
<td>- Mild</td>
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<td></td>
<td>- Mod</td>
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<tr>
<td></td>
<td>- Severe</td>
</tr>
<tr>
<td>Residual peak gradient (mmHg)</td>
<td>-</td>
</tr>
<tr>
<td>Residual mean gradient (mmHg)</td>
<td>-</td>
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<td>Neoaortic insufficiency</td>
<td>- Yes</td>
</tr>
<tr>
<td></td>
<td>- No</td>
</tr>
<tr>
<td></td>
<td>- N/A - no lesion</td>
</tr>
<tr>
<td>If yes, specify</td>
<td>- None</td>
</tr>
<tr>
<td></td>
<td>- Trivial</td>
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<td></td>
<td>- Mild</td>
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<td></td>
<td>- Mod</td>
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<tr>
<td></td>
<td>- Severe</td>
</tr>
<tr>
<td>Jet width (mm)</td>
<td>-</td>
</tr>
<tr>
<td>Vena contracta (mm)</td>
<td>-</td>
</tr>
<tr>
<td>Attempted to perform Supra-Pulmonary Anastomosis (Main PA)</td>
<td>- Yes</td>
</tr>
<tr>
<td></td>
<td>- No</td>
</tr>
<tr>
<td></td>
<td>- N/A - no lesion</td>
</tr>
<tr>
<td>Is there a residual stenosis?</td>
<td>- Yes</td>
</tr>
<tr>
<td></td>
<td>- No</td>
</tr>
</tbody>
</table>
___ Subjective assessment of residual stenosis
  ○ None
  ○ Trivial
  ○ Mild
  ○ Mod
  ○ Severe
___ Residual peak gradient (mmHg) ________________________________

**Left PA:**

Is there residual stenosis
  ○ Yes
  ○ No
___ Subjective assessment of LPA residual stenosis
  ○ None
  ○ Trivial
  ○ Mild
  ○ Mod
  ○ Severe
___ Narrowest LPA Diameter (mm) ________________________________
___ Residual LPA Peak gradient (mmHg) ________________________________

**Right PA:**

Is there residual stenosis
  ○ Yes
  ○ No
___ Subjective assessment of RPA residual stenosis
  ○ None
  ○ Trivial
  ○ Mild
  ○ Mod
  ○ Severe
___ Narrowest RPA Diameter (mm) ________________________________
___ Residual RPA Peak gradient (mmHg) ________________________________

Neo Aortic Valve regurgitation
  ○ None
  ○ Trivial
  ○ Mild
  ○ Mod
  ○ Severe
___ Vena contracta (mm) ________________________________
___ Jet width (mm) ________________________________

Neo Pulmonary Valve regurgitation
  ○ None
  ○ Trivial
  ○ Mild
  ○ Mod
  ○ Severe
___ Vena contracta (mm) ________________________________
___ Jet width (mm) ________________________________
Coronary artery anatomy and great vessels relationship

Usual (Sinus 1- LAD, Cx: Sinus 2-RCA)  
☐ Yes  
☐ No

Single coronary  
☐ Yes  
☐ No

Intramural coronary  
☐ Yes  
☐ No

Aorta side by side to pulmonary artery (Taussig-Bing type)  
☐ Yes  
☐ No

Other, please describe  
__________________________________

Coronary Re-implantation and Perfusion

_____ Flow seen in proximal LCA?  
☐ Yes  
☐ No  
☐ Not assessed

_____ Flow seen in proximal RCA?  
☐ Yes  
☐ No  
☐ Not assessed

_____ Regional wall motion abnormality  
☐ Yes  
☐ No

_____ Re-intervention (cath or OR) of LCA  
☐ Yes  
☐ No

_____ Re-intervention (cath or OR) of RCA  
☐ Yes  
☐ No

Comment  
__________________________________

Procedure-independent Measures:

Unplanned return to cardiopulmonary bypass during index operation (Intra-op)  
☐ Yes  
☐ No

Anatomic injury during index operation requiring change in operative management (e.g. repair required for great vessels, coronary arteries, or myocardium, etc.)  
☐ Yes  
☐ No

Unplanned return to OR or cath lab for intervention on site of index operation  
☐ Yes - return to OR  
☐ Yes -- cath lab intervention  
☐ No

Describe interventional OR or cath procedure:  
☐ Residual VSD  
☐ Residual ASD  
☐ TV intervention  
☐ Other
 Describe interventional OR or cath procedure:

- VSD
- RVOT
- PV
- TV
- MPA
- RPA
- LPA
- Other

 Describe interventional OR or cath procedure:

- ASD
- PDA
- VSD
- LAVV
- RAVV
- LVOT

 Describe interventional OR or cath procedure:

- ASD
- VSD
- Supra pulmonary Anastomosis
- LPA
- RPA
- RVOT
- Aortic Arch
- Coronaries

 If other, please specify: ________________________________

 Postoperative mechanical circulatory support

- Yes
- No

 Please click "SAVE and GO TO NEXT FORM" button to review graphical data view.
Report

Ventricular Septal Defect (VSD) Repair Under construction
Tetralogy of Fallot Repair Under construction
Complete Atrioventricular Canal Repair Under construction
Arterial Switch (TGA) Under construction