PedCath8

Tutorial

Logging into PedCath for the first time

If you are logging into PedCath for the first time, the default password is *Taussig1!* Once you have used this password to login, you must change it immediately, and will be prompted to do so.

If you are using a demo version of PedCath, there is no login screen.

Exploring the BROWSE screen

The BROWSE screen gives you a visual snapshot of every patient and every cath. Take a moment to browse through the sample patients. Clicking on a patient will update the bottom portion of the screen. Notice how PedCath displays patients with multiple caths (Buck Rogers) and multiple sets of hemodynamic data (Lotsa Oxygen and John Deere).

Adding a New Patient to PedCath

Click on the **Add Patient** button
or click on the **New Patient** icon.

Fill in patient information as shown in the box.

Boxes with labels shown in bold are required to save the patient record.

Adding a Cath Report

With the patient you just entered highlighted, click the **Add Cath** button, or click the **New Cath Report** icon .   This will open the **Edit Cath Screen**:
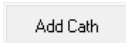
Entering Case Information

Add information about this cath in the *Case Information* box.

Click the clock icon to the right of the Cath Date to enter the procedure start and end times.

Click **Set Access** to set the vein and arterial access data.

Click the Add button underneath the Venous Access list box.
Set the access to Right brachial and the sheath size to 12 Fr and click Ok.

To add a second venous access, click the Add button again and set the access to Right femoral and the sheath size to 9 Fr and click Ok.

To add an Arterial access, click the Add button underneath the Arterial Access list box.

Set the access to Right carotid and the sheath size to 4 Fr. Click the Add button next to Arterial Closure methods and select Manual Compression from the pop-up list. Click OK to save the arterial access information.

Check the box labeled Print Closure Methods to include the closure methods on the cath report. Note that Manual Compression is now included in the Artery box within the Report Text group box. This is how the text will appear on the report. To modify how the text will appear click the Override button above the box and enter the text as desired.

Selecting and Removing Cath Personnel

Click on the **Add Personnel to Cath Report** icon,

You may select personnel by highlighting their names and clicking OK
To change someone's role, click on his or her role in the list for this cath, and use the drop down list to select a new role.
To remove personnel from a cath, click on the **Remove Personnel** icon.

Only administrators may add new personnel to the **PedCath** master list. Users with Full-Edit privileges can add "no-access" staff members to the master list such as referring physicians.

Entering Hemodynamic Sets

Go to the **Hemodynamics Sets** section of the screen (left, middle) and enter a title, "post intervention" in the box next to the "Set 1 of 1" text. Each cath may have up to eight sets of hemodynamics.

Set 1 of 1:   post intervention

☑ IMPACT Set   Add Set   Delete Set

Now click on the Hemodynamics tab unless it is already open and add the cath information listed below.

Hemodynamics	User Fields	Measurements

Heart Rate (bpm)	68		Hemoglobin (gm/dL)	10.9		pCO2	41.0
Inspired O2 (%)	21		O2 Consumption (VO2/m²)	118		pO2	91.0
Thermo CO (L/min)			Blood pH	7.42		HCO3	26.0

Right

O2%	Site	Sys/A	Dias/V	Mean
71	SVC			
	RA	16	12	11
	RV			P
71	PA			15
	RPA			
	LPA			

Wedge

Right Mean 6   Left Mean 6

Left

O2%	Site	Sys/A	Dias/V	Mean
96	LA			
	LV	110	8	S
	aAO	108	62	83
96	dAO	105	52	80

Entering Diagnosis/ Procedures

Click on the **Diagnosis and Procedures icon** D_x .
If asked, choose Yes to save your changes.
The **Diagnosis** screen will be displayed.

Note: This tutorial assumes you are using the
diagnostic code set shipped with the
PedCath demo CD. If your screen has a
different list on the right, you are using one
of the alternative codes sets available with
PedCath. You will still have the tree list and
search capabilities described below, but the
code descriptions, code numbers and
category organization will be different.
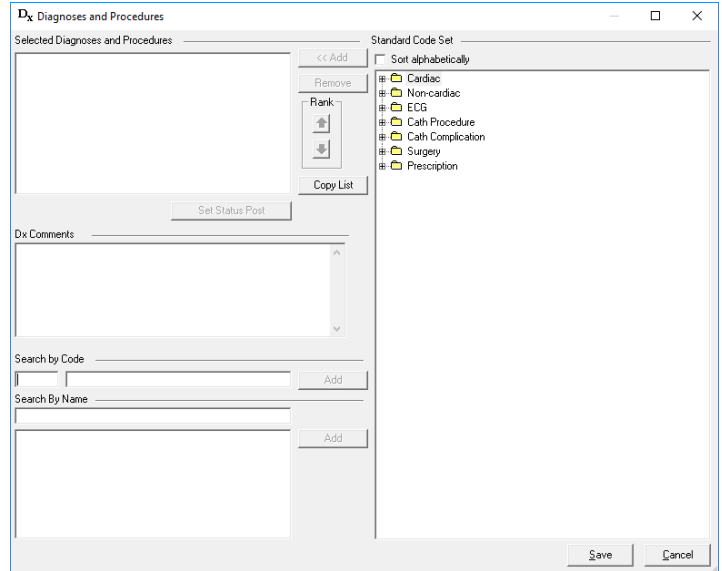
A tree list of all possible codes is available
in the right-hand box. The upper-left box is
for diagnoses and procedures associated with
this cath. The two sections in the lower left contain search tools to help you find the correct
codes. You may search by code number or by text fragment.

Text Search
In this example, we will search by name first. Enter
stent. You can see that two of the procedures you
performed are listed. To place them on the selected
procedures section either double-click the selection or
click the Add button on the right.
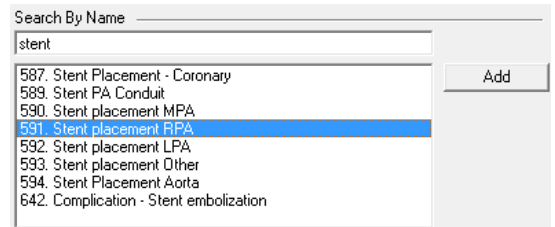
Code Search
Now search by code. In the select code box, enter 46.
DORV should pop up next to it. Click the Add button to
place it in the procedures box.
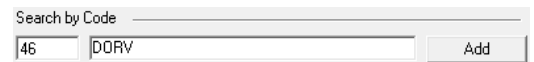
Tree List Search
Finally, we can use the tree list to find our last two Dx. Codes. In the tree list, click on the +
sign next to Surgery Procedure. Scroll down to PVR and TVR (codes 702 and 703). When a
code has been highlighted, click on the <<Add button to add it to the list of Selected
Diagnoses and Procedures.

Now highlight one of the 5 codes for this cath and use the
Rank arrows to move it up and down in the list. **PedCath**
allows you to set the relative importance of each
diagnostic code.
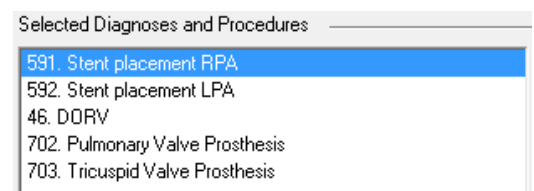
Click the SAVE button to exit from this screen.

The Diagram Manager

Click on the **Diagram Manager** icon, under the **Report Component Managers** section (upper right on the Edit Cath Report Screen).

Each cath may have up to three diagrams associated with it.

Selecting a Heart Diagram

Click on the **Add Diagram** icon, to view a selection of different heart diagrams.

For this patient, click on the + sign next to
Postoperative Anatomy

Then choose
Right Ventricle to Pulmonary Artery Conduit with Patch Closure of the Ventricular Septal Defect for Truncus Arteriosus and Right Aorta Arch

The selected diagram will be shown in the Preview window. There are a number of built-in variations of each diagram as well. These include wider versions with extended pulmonary arteries, mirrored versions for dextrocardia patients, and variations that include a LSVC (to either the Left Atrium or Coronary Sinus) and a Right Aortic Arch. These options can be set underneath the diagram preview. For this tutorial we will use the Original diagram.

Click the Select Diagram button to add the diagram to this cath report. (You can also double-click on the heart diagram title in the Atlas listing to add the diagram if the Diagram modifications are already set as desired).

When you have selected your diagram, PedCath returns to the **Diagram Manager** screen.

To edit your new diagram, just click on the **Edit Diagram** icon.
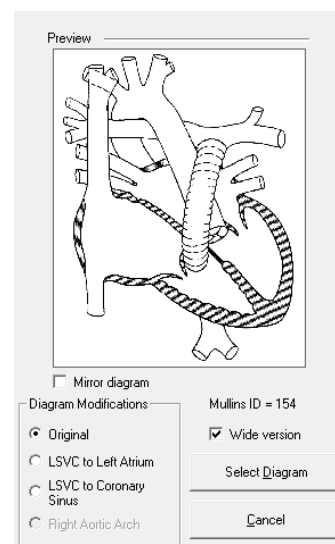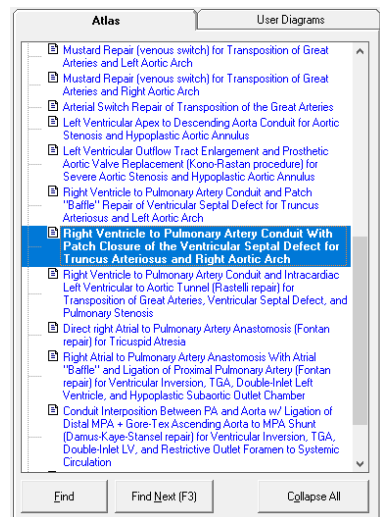
Editing a Heart Diagram

Erasing

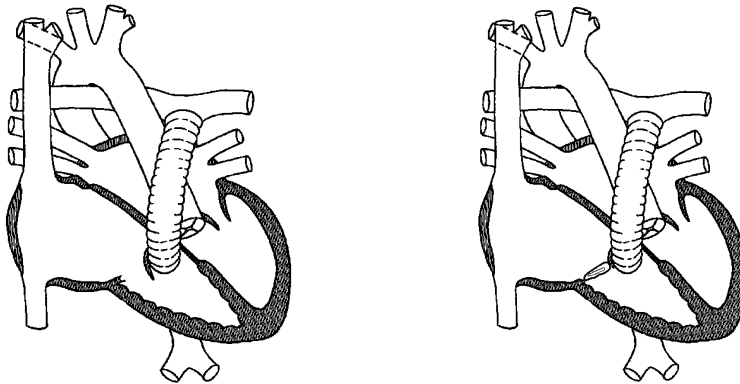Choose the **Eraser Tool** icon**.**   Next click on a medium sized line.

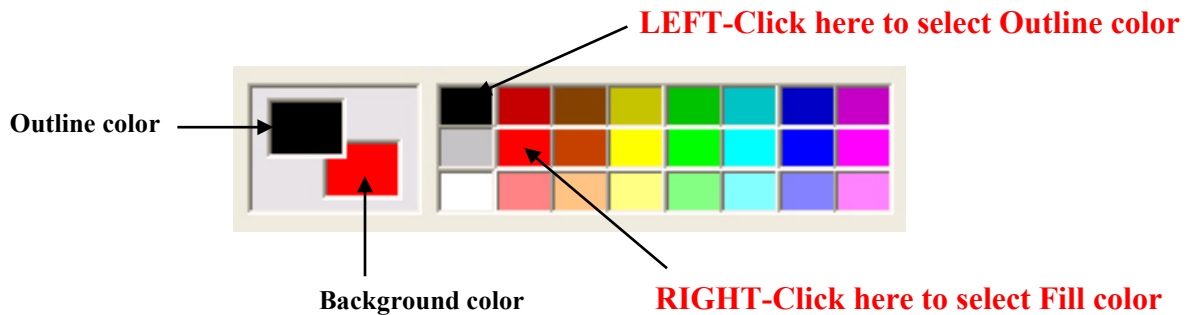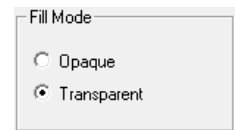Next erase part of the Tricuspid Valve by drawing over it.
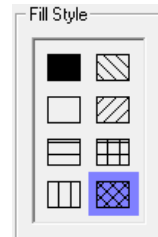
Freehand Drawing

Choose the **Freehand Tool** icon**.**

Choose a smaller line width. Sketch a prosthetic tricuspid by drawing a loop where the original valve was.

The Blob Tool

Click on the **Blob Tool** icon.
Select a thin line, a diagonal crisscross **Fill Style**, a transparent **Fill Mode**, a black outline, and a red background.

LEFT-Click here to select Outline color

Outline color

Background color

RIGHT-Click here to select Fill color

Use the **Blob Tool** to draw stents in the Pulmonary artery by tracing an outline of each stent along the walls of the artery.
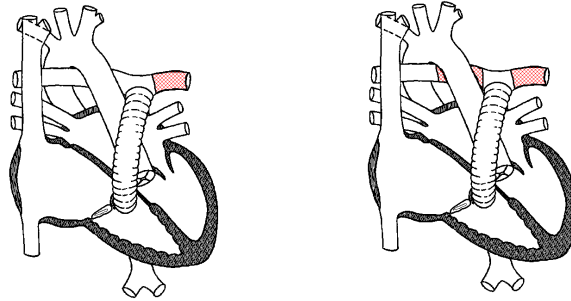
Undo and Erase

If you make any errors you can either use the **Undo** icon to erase the last thing you drew, use the **Freehand Tool** set to white to erase, or use the **Selection Tool** to click on the item to make a box appear around the item then press the Delete key.

Saving Diagram Templates
Because you made extensive changes to the diagram, click on the **Save Template** button to save it as a permanent template for the patient. This template will be available for any later caths for this patient.
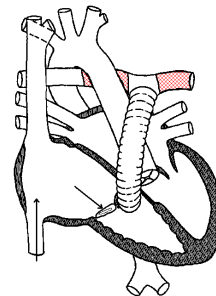

Using Arrows
To show the path or direction of the catheter, click on the **Line Arrow Tool** . Select a line width, no **Start Arrow**, and a medium **End Arrow**.
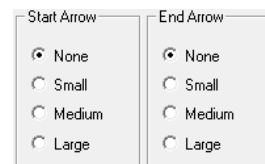
Choose a black foreground and a white background.
Now start the arrow at the beginning of the IVC and ending it in the RA. Draw another arrow beginning in the RA and ending in the RV.

Embedding Hemodynamic Values into your Diagram

Embed

Click on the **Embed** button to insert all of the hemodynamic data into the diagram.

Your final diagram should look similar to this one. Close the Edit Diagram box, saving the patient diagram for this cath (right).