Tutorial

Logging into **PedCath** for the first time

If you are logging in to **PedCath** for the first time, the default password is *Taussig*. 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 [Add Patient]

    or click on the **New Patient** icon.

Fill in patient information as shown in the box.

New Patient Record

First Name: John
Last Name: Smith
MRN: 1232
Date of Birth: 05/28/1986
Gender: Male

Ok   Cancel

Adding a Cath Report

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

Edit Cath Report

File Edit View Tools Report Components

Patient Information

First Name John   Last Name Doe

Medical Record Number 123456789012   Date of Birth 09/19/1995   Gender Male

Report Components

Case Information

Cath Date 09/26/1996   Weight (kg) 9.5
Cath Number 95c-bb11   Height (cm) 85.0
Vein right femoral   Fluoroscopy Time (min) 16.00
Artery right femoral   Contrast Total (cc) 12.00

Personnel

Name	Role
Hammill MD, William	Attending
Sara E. Regan, MD	Fellow
Dr. Kymberly Shackelford	Referring
W. Fletcher Lane, MBBS	Surgeon

Hemodynamic Sets

Set 1 of 1:   Example cath

Add Set   Delete Set

Calculations

BSA = 0.47 m²
Qp = 9.72 L/min (20.68 L/min/m²)
Qs = 2.59 L/min (5.51 L/min/m²)
Rp = 1.65 units (0.77 units x m²)
Rs = 21.22 units (9.97 units x m²)
Qp/Qs = 3.75 : 1
Rp/Rs = 0.08

View Calculations   Calculation Override

Hemodynamics | User Fields | Measurements | Studies

Heart Rate (bpm) 121   Hemoglobin (gm/dL) 8.8   pCO2 43.0
Inspired O2 (%) 21   O2 Consumption (VO2/m²) 198   pO2 83.0
Thermo CO (L/min) 3.00   Blood pH 7.37   HCO3 25.0

Right

O2%	Site	Sys/A	Dias/V	Mean
67	SVC			
81	RA			6
88	RV	50	7	
89	PA	37	13	25
	RPA			
	LPA	37	12	22

Wedge

Right Mean   Left Mean 9

Left

O2%	Site	Sys/A	Dias/V	Mean
97	LA			8
	LV	95	10	
97	aAO	95	39	57
97	dAO	97	40	61

XML Export ON   3 7

Entering Case Information

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

Case Information		
Cath Date 06/18/2001	Weight (kg) **54.5**	
Cath Number fr443	Height (cm) **158**	
Vein 7 fr rt	Fluoroscopy Time (min) 13	
Artery 6 fr rt	Contrast Total (cc) 86	

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.

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   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   Oxygen Consumption **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			
71	PA			15
	RPA			
	LPA			

Wedge

Right Mean **6**   Left Mean **6**

Left

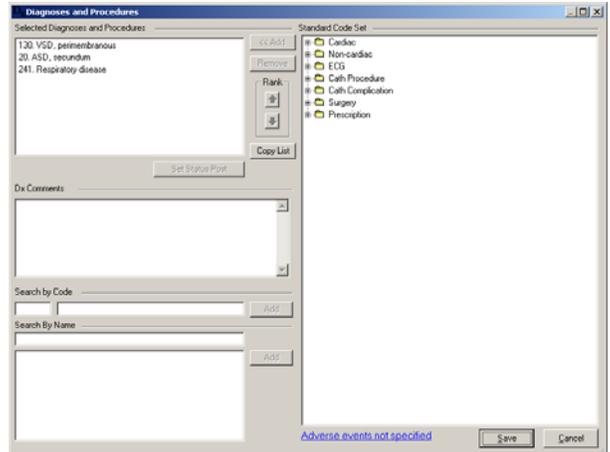| O2%	Site	Sys/A	Dias/V	Mean
96	LA			
	LV	110	8	
	aAO	108	62	83
96	dAO	105	58	**80**

Entering Diagnosis/ Procedures

Click on the **Diagnosis and Procedures icon**

Dx.

If asked, choose Yes to save your changes.
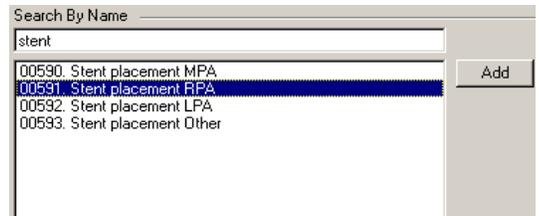The **Diagnosis** screen will be displayed.

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.
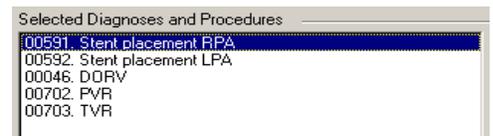
Code Search

Now search by code. In the select code box, enter 00046. 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 00702 and 00703). 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 OK button to exit from this screen. Your selections are saved automatically.

The Diagram Manager

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

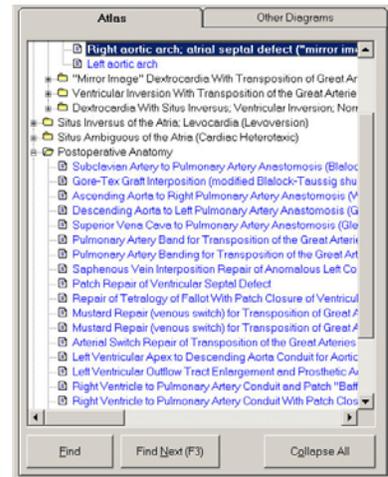Each cath may have up to three diagrams associated with it.

Selecting a Heart Diagram

Click on the **Add Diagram** icon, [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

To select this diagram for this cath, double click on the heart diagram title, which will be highlighted and underlined in blue. You can also click the Select Diagram button.

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

[icon] To edit your new diagram, just click on the **Edit Diagram** icon.

Editing a Heart Diagram

Erasing

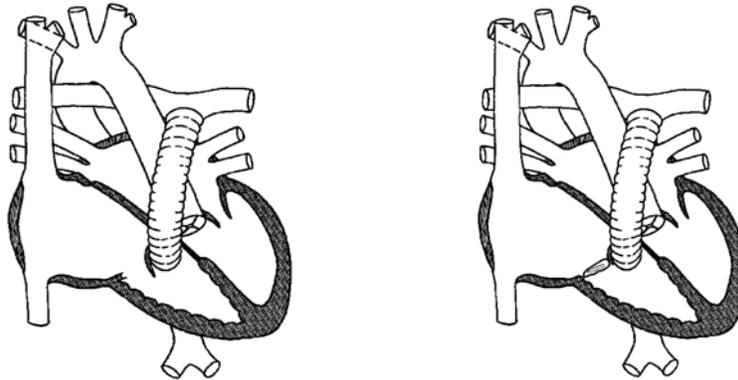Choose the **Freehand Tool** icon. Next click on a medium sized line.

Now click on white to select it as a foreground color
and right-click on white to also select it as a background color.
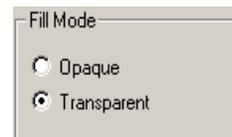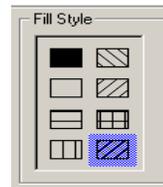
Freehand Drawing

With the **Freehand Tool** set to white, erase part of the Tricuspid Valve by writing over it.

Change the foreground color to black and choose a smaller line
width. Sketch a prosthetic tricuspid by drawing a loop where
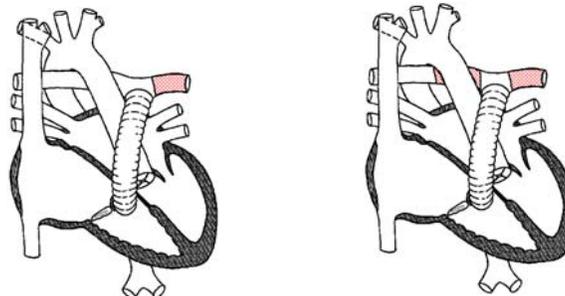the original valve was.

The Blob Tool

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

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 [icon] to erase the last thing you drew, use the **Freehand Tool** set to white to erase, or use the **Selection Tool** [icon] to click on the item to make a box appear around the item then press the Delete key.
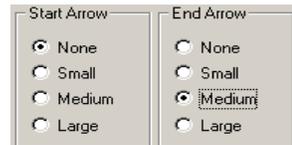
Saving Diagram Templates

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.
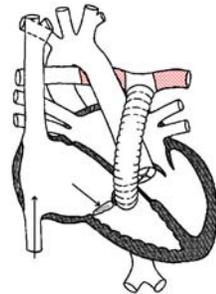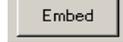
Using Arrows

To show the path or direction of the catheter, click on the **Line Arrow Tool** [icon]. 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

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).