

IMPACT v2 Release Update

Overview

Scientific Software Solutions was the first vendor certified for the IMPACT registry and is happy to announce that **PedCath** has been certified for IMPACT v2. This guide goes over the differences between using IMPACT versions 1 and 2. Please refer to the IMPACT 1 user guide to become familiar with using the IMPACT module.

IMPACT v2 adds three new study types:

**Electrophysiology Cath,
Electrophysiology Ablation Procedure (EAP),
Transcatheter Pulmonary Valve Replacement (TPVR).**

IMPACT v2 now supports collection of follow-up data.

There are also updates to most of the existing study panels.

PedCath IMPACT Registry module offers new configuration options such as the ability to specify default units for Cumulative Air Kerma and Fluoro Dose, as well as the ability to edit favorite closure methods, and manage a global research study list.

Users of the PedCath IMPACT Registry module will be familiar with the IMPACT v2 user interface as the navigation is largely the same.

If a cath report is entered prior to the IMPACT 2 collection start date (4/1/2016) the user will be prompted to specify what version to use (If it's not known if the patient will be discharged before the start date it's recommended to wait to enter the IMPACT-specific data). Studies started after the collection start date will automatically be assigned to v2.

Electrophysiology Users - Welcome

Electrophysiology data collection is new to the IMPACT registry and new to **PedCath**.

Beginning with **PedCath** version 8.4, all EP fields required for IMPACT v2 have been incorporated into a single cohesive reporting system. This has the potential to provide one database for all congenital cath cases, whether they are hemodynamic, interventional or EP.

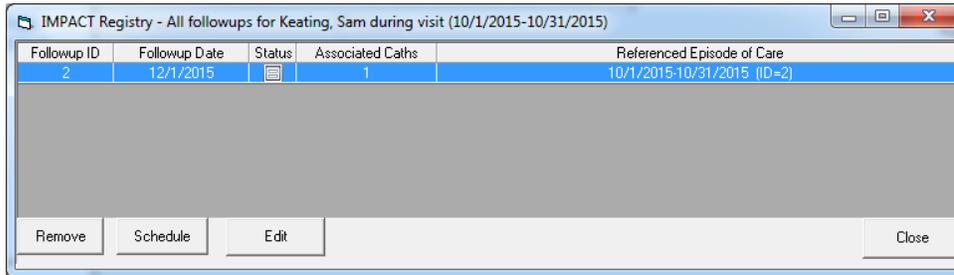
With our direct data import for MacLab, electrophysiologists using GE MacLab/Cardiolab systems can directly import into **PedCath** after the case.

Scientific Software Solutions is actively asking for advice in improving **PedCath** as a congenital EP reporting tool. Please call us at 1-800-887-5301 with questions.

Collecting Follow-up Data

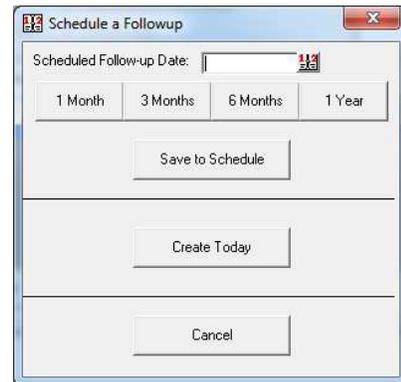
PedCath allows you to collect follow-up data for IMPACT v2 after a patient's discharge.

Clicking the Follow-ups button on the Discharge panel of the IMPACT Registry module will show a list of follow-up records linked to the current episode of care. Here you will be able to create, edit or remove follow-up records as well as schedule one for a future date.



Click the Schedule button to schedule a follow-up and enter a date for a planned follow-up consultation. You can also click one of the predefined timespans to set the date (e.g. clicking "1 Month" will schedule a follow-up for one month in the future). Click Save to Schedule to schedule the follow-up.

Clicking Create Today will allow you to fill out a follow-up record at that time without scheduling for a future date.



Follow-up

Follow-Up Main Electrophysiology Ablation Procedure

Follow-up Assessment Date: 12/01/2015

Referenced Procedures: (check all that apply)

10/10/2015 Cath Number: 2

Method(s) to Determine Status:

Office Visit Medical Records Letter from Medical Provider

Phone call Social Security Death Master File Hospitalized

Other

Follow-up Status: Alive Deceased Lost to Follow-up

Date of Death: [Date Picker]

Cause of Death:

Renal Cardiovascular procedure Hemorrhage

Infection Cardiovascular hemorrhage Non-cardiovascular procedure or surgery

Pulmonary Other cardiovascular reason Trauma

Acute myocardial infarction Gastrointestinal Suicide

Sudden cardiac death Hepatobiliary Neurological

Heart failure Pancreatic Malignancy

Stroke Inflammatory/Immunologic Other non-cardiovascular reason

Events Since Discharge

Readmitted: No Yes

Readmission Length of Stay: 3 days

Readmission Date: 11/10/2015

Hospitalized at time of Follow-up: No Yes

Follow-up Complete

[12033_F_Hosp] Coding Instructions: Indicate that the length of stay cannot be calculated because the patient was currently hospitalized during the readmission period.

Target Value: The value on follow-up

OK Cancel

A follow-up record is linked to one or more studies during a patient's visit.

Specific follow-up questions are collected for the ASD, EAP, and TVPR studies.

Checking the Follow-up Complete box indicates that the follow-up record has been completed and reviewed (and will also hide it from the scheduled follow-up listing). All follow-up records filled out during a given quarter will be included in the submission file whether the Follow-up Complete box is checked or not.

You can view and manage the list of follow-ups occurring in the near future (or overdue) from the PedCath Browse screen. From the main menu choose:

IMPACT Registry > Follow-ups > All Scheduled or In Progress

All follow-ups that have been started but not checked off will be included in this list as well.

The other menu commands will allow you to view the entire follow-up database, or view follow-ups for the selected patient.

The screenshot displays the IMPACT Registry software interface. The main menu is open, showing the following options: Patient Episode of Care List, Set Cath Episode of Care, Edit IMPACT Study, Delete IMPACT Study, Print Report, Export to C3PO, Follow-ups, and Administration. The 'Follow-ups' menu is expanded, showing: All Scheduled or In Progress (F6), Full Follow-up Listing (All Patients) For Selected Patient, and Full Follow-up Listing (All Patients) For Selected Episode (Ctrl+F6). The background shows a data table with columns for IR, Cath Date, Cath No., and Staff Name. The selected row shows IR 05/22/2003, Cath No. 03c-0123, and Staff Name Administrator. Below the table are buttons for Add Patient, Edit Patient, IR, Add Cath, and Edit Cath. At the bottom, there is a Calculations section with a dropdown menu set to 'Set 1 of 2: Room Air Rest', a red warning 'Some Calculation Values Overridden', and values for Qp (5.51 L/min) and Qs (1.60 L/min). To the right is a Diagnoses section with a list of codes and descriptions.

IR	Cath Date	Cath No.	Staff Name
05/22/2003	03c-0123		Administrator

Calculations

Set 1 of 2: Room Air Rest

Some Calculation Values Overridden

Qp = 5.51 L/min (10.03 L/min/m2)

Qs = 1.60 L/min (2.90 L/min/m2)

Diagnoses /

130. VSD,
20. ASD, s
176. Seco
79. Persist.

Administration

There are a number of administrative options new in v2.

From the main menu choose IMPACT Registry > Administration.

Field Units - You can set the Cumulative Air Kerma units here as well as Fluoro DAP. The values set here will be the default units for new cases (they can be changed on a case-by-case basis). Any previous cases will use the units that they were entered in. Rad dose on the cath report will use the same units as Cumulative Air Kerma. For more information please refer to the PedCath Radiation Reporting white paper.

Manage Research Studies – Allows you to manage a master list of study names. These will be referenced within a patient’s episode of care record if they are involved in any research studies. **PedCath** users can also enter in the study name directly and manage the master list from the episode of care record.

Manage Favorite Closure Methods – Allows you to manage a favorite closure methods listing. Once set users will be able to quickly choose most frequently used closure methods from a drop-down list. Up to 5 may be chosen.

Update Data Dictionary – This feature will download and install the latest data dictionary from the web, and update coding instructions and field definitions. It’s recommended to do this once per quarter.

Notice that Participant NPI is no longer used in v2.

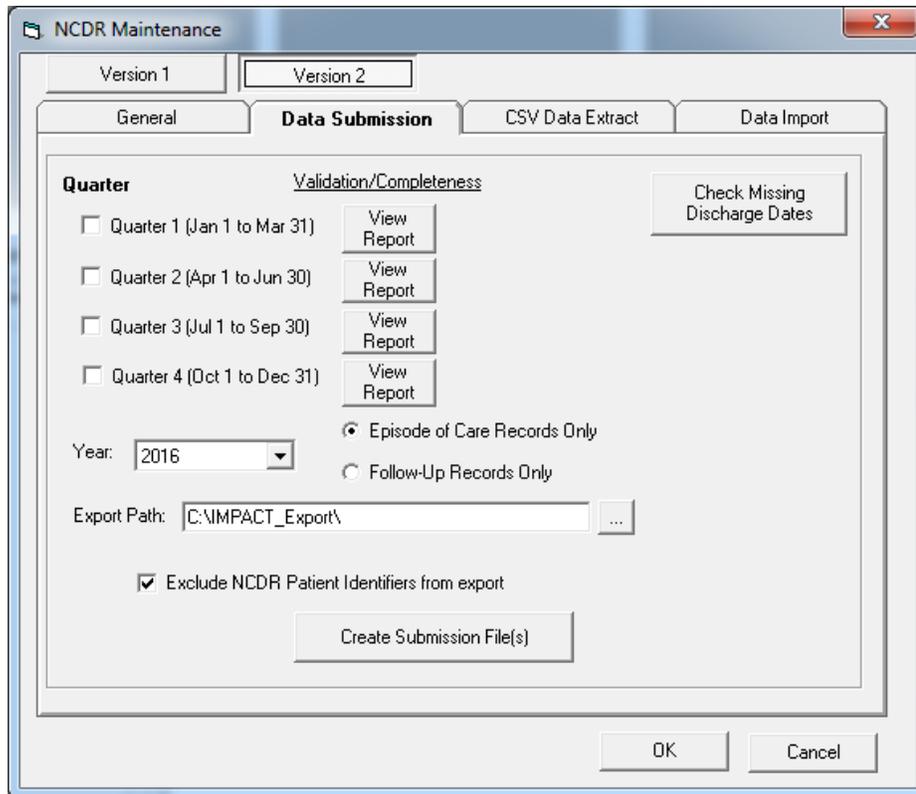
The screenshot shows the 'NCDR Maintenance' dialog box, Version 2, with the 'General' tab selected. The dialog has a title bar with 'NCDR Maintenance' and a close button. Below the title bar are two tabs: 'Version 1' and 'Version 2'. The main content area is divided into four sub-tabs: 'General', 'Data Submission', 'CSV Data Extract', and 'Data Import'. The 'General' sub-tab contains the following fields and controls:

- Participant Name: Text box containing 'Scientific Software Solutions'
- Participant ID: Text box containing '123456'
- Encryption Key: Text box (empty)
- Auxiliary ID: Text box (empty)
- Cumulative Air Kerma Units: Dropdown menu set to 'Gy'
- Dose Area Product Units: Dropdown menu set to 'Gy-cm2'
- Dynamic List Updates section:
 - From Web: 'Web Update' button
 - From Files: 'Update Closure Methods' and 'Update Device List' buttons
- Buttons on the right side: 'Manage Research Studies', 'Manage Favorite Closure Methods', 'Manage Operators', and 'Update Data Dictionary'
- Checkboxes at the bottom:
 - Use IMPACT coding for PedCath Dx
 - Remove SSN Field
 - Enable Case Checkoff (with an information icon)
 - Link Patient's Other ID Field to MRN

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Submission

IMPACT submission works in the same way as IMPACT v1, where you will create a submission file once per quarter and upload it to the NCDR web site. In addition to the standard submission you will also need to run a Follow-up submission to send all follow-up records collected during a given quarter.



The screenshot shows the 'NCDR Maintenance' dialog box with the 'Data Submission' tab selected. At the top, there are two tabs: 'Version 1' and 'Version 2'. Below the tabs are four sub-tabs: 'General', 'Data Submission', 'CSV Data Extract', and 'Data Import'. The 'Data Submission' sub-tab is active. It contains a 'Quarter' section with four checkboxes for Quarter 1 (Jan 1 to Mar 31), Quarter 2 (Apr 1 to Jun 30), Quarter 3 (Jul 1 to Sep 30), and Quarter 4 (Oct 1 to Dec 31). Each checkbox has a 'View Report' button next to it. To the right of these is a 'Check Missing Discharge Dates' button. Below the quarters is a 'Year' dropdown menu set to '2016'. There are two radio buttons: 'Episode of Care Records Only' (selected) and 'Follow-Up Records Only'. Below that is an 'Export Path' text box containing 'C:\IMPACT_Export\' and a browse button (...). At the bottom of the main area is a checked checkbox 'Exclude NCDR Patient Identifiers from export' and a 'Create Submission File(s)' button. At the very bottom of the dialog are 'OK' and 'Cancel' buttons.

Data Reports

Both version 1 and v2 data items are included in the data reports module, so you will be able to run a query on field data from either version. Any fields that are specific to a particular IMPACT version will be labeled as such.