

## Add Patients to a Normals Database



**4DM Version:**  
2017 and later releases



Users cannot edit, add patients, or delete normals databases that come standard with 4DM. Only user-created normals databases can be edited.



INVIA does not recommend creating a normals database

that combines patient data acquired with a different Reconstruction Arc, Image Orientation, or reconstruction method from different manufacturers.



To activate the **DB Editor** screen, go to the **Screen Layout** section of **Preferences** in 4DM. Navigate to the **Inactive Screens** list, select the screen name from the list, and click **Activate Screen**.



The user-defined normals database must have a minimum of 20 patients added before it is available for use.

INVIA recommends a normals database population of 60 patients due to the wide range of normal variability between patient datasets.

The accuracy of user-defined normals databases depends on the quality of patient selection, image acquisition and image reconstruction. For insight, refer to INVIA's **Qualifying Patients for a Normals Database** and **Create a Normals Database** reference guides.

### HOW-TO GUIDE

1. Launch 4DM using a qualified patient by selecting the reconstructed transverse or SA datasets. These datasets should have been previously qualified and reviewed for inclusion in the database being created, as discussed in INVIA's **Qualifying Patients for a Normals Database** reference guide.
2. Select the **DB Generator** screen from the **Screen Selector Panel** (see 1 in Figure 1).

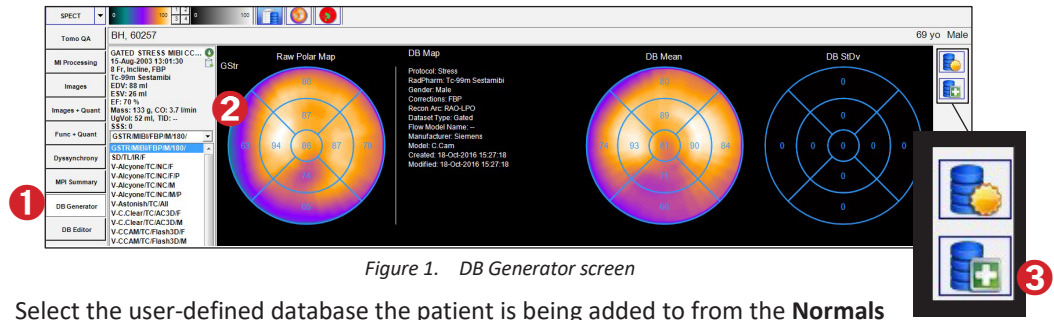


Figure 1. DB Generator screen

3. Select the user-defined database the patient is being added to from the **Normals Database Selector Menu** (see 2 in Figure 1).
4. After selecting the new user-defined normals database a **Database Warning** window appears (Figure 2). Click OK to proceed. The warning appears until 20 patients have been added to the user-defined database.

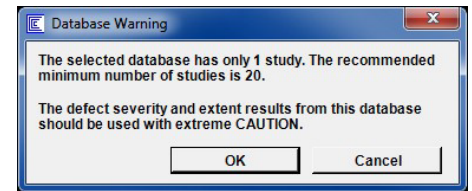


Figure 2. Database Warning

5. Select the **Add Dataset to Normals Database** icon to add the patient to the user-defined normals database (see 3 in Figure 1). The icon activates if the dataset matches the criteria previously specified for the normals database.
6. After adding each dataset, we recommend that you verify that the dataset was added to the user-defined normals database by selecting the **DB Editor** screen from the **Screen Selector Panel** (see 1 Figure 3).

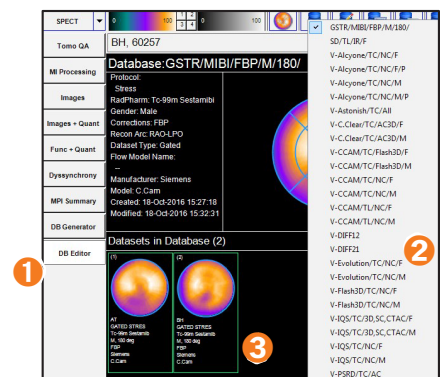


Figure 3. DB Editor screen

7. Select the user-defined normals database by clicking on the **Normal Database** icon and choosing the same user-defined normals database from the menu (see 2 in Figure 3).
8. The dataset added to the normals database should display with a green border in the **Datasets in Database** section (see 3 in Figure 3).
9. Repeat steps 1 - 8 for all datasets until the database is completely constructed.
10. Once the database has a minimum of 20 patients, patient studies with the same criteria auto-match to the new database when reviewed in 4DM.

Once your database is complete, import it to all your 4DM workstations. Refer to INVIA's **Edit a Normals Database** Reference Guide for details about importing. INVIA recommends a minimum database population of 60 patients.