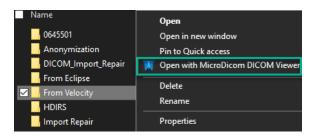
Eclipse Import Repair

Analyzing and repairing issues that prevent diagnostic images from being used in Eclipse.

I. Analyzing the images using MicroDicom

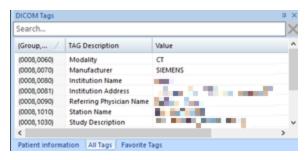
- 1. Open File Explorer In the folder above that containing the DICOM images for analysis.
- Right-Click on the folder containing the DICOM images and select "Open with MicroDicom DICOM Viewer"



 The left panel contains the patient information and tree of images. Select the appropriate image set and then any image from within that set.



4. The right-hand panel displays the DICOM header information as a list of "Tags"



If the DICOM tags are not showing click:
 View → DICOM Tags Pane.



 Import errors can be diagnosed through the contents of the DICOM tags. Use the "PET Import Problems" tables to see what DICOM Tag information is associated with different issues.

II. PET Import Problems

A.	Incorrect Image modality			
Symptoms	The images can be imported by Eternal Beam, but Contouring crashes when the image set is opened.			
Diagnosis	 The DICOM Modality tag (0008, 0060) of the PET image series is labeled "CT". In the past there have also been cases where the CT image sets have been incorrectly labeled as 'NM' or 'OT'. DICOM Tags 			
	(Gro			
Epidemiology	 Recently, the most common case has been where the PET images have been given the Modality 'CT'. This occurs infrequently, but in short bursts. The problem is usually resolved on the sending end within a day. When one is found watch for other image sets send from the same institution within a 1-2 day time window. 			
Treatment	 Image series that have been imported with the incorrect modality must be deleted from Eclipse. This is done in the "Selection" workspace. Replace the DICOM Modality (0008, 0060) value with the correct one ('PT' or 'CT'. 			

В.	Invalid Cha	racters			
Symptoms	 The images cannot be imported. Import error message states: Value is invalid: String contains '\' Alternate Import error message: "The patient of the data to be imported is unidentified or none of the data could be imported". 				
Diagnosis	 The DICOM "Body Part Examined" tag (0018, 0015) in the image series begins with a "/". (Group,				
Epidemiology	 Recently, this problem has resulted from "illegal" characters in the CT BodyPart DICOM header tag. In the past there have also been cases where the DICOM "Other Patient IDs" tag (0010, 1000) contained the "illegal" characters, but this tag is no longer in use, so it is unlikely to be found here. These are relatively common. Almost all of these cases have been in image sets coming from Ottawa, but not all images coming from Ottawa have this problem. 				
Treatment	Clear the offending value in the DICOM tag.				

C.	Mismatched addresses					
Symptoms	Eclipse crashes while attempting to import the images.					
	 Import error message includes the text: "Cannot insert duplicate key row in object 					
	'dbo.Equipment' ".					
Diagnosis	The DICOM "InstitutionAddress" tag (0008, 0081) is different for the CT and PET					
Diagnosis						
	images, while other "Device References" remain the same:					
	Manufacturer (0008,0070),					
	Institution Name (0008,0080),					
	Station Name (0008,1010),					
	Institutional Department Name (0008,1040),					
	Manufacturer Model Name (0008,1090),					
	Device Serial Number (0018,1000),					
	Software Versions (0018	3,1020)				
	(Group,E TAG Description	Value	Value			
	(0008,0060) Modality	CT	PT			
	(0008,1010) StationName (0008,1090) ManufacturerModelName	BIOGRAPH Biograph Horizon	BIOGRAPH Biograph Horizon			
	(0008,0070) Manufacturer	SIEMENS	SIEMENS			
	(0008,0080) InstitutionName	164	MBC			
	(0008,1040) InstitutionalDepartmentName (0018,1020) SoftwareVersions	CT PET VJ21C	VJ21C			
	(0018,1000) DeviceSerialNumber	479	94159			
	(0008,0081) InstitutionAddress	Eg CA	Misirc and Till a state of the			
	(0008,103E) SeriesDescription	AC CT WB	PET WB AC			
Epidemiology	, , , , , , , , , , , , , , , , , , ,					
	PET image sets coming from there.					
	 This is so common that wh 	en diagnosing an import is	sue, I first check whether it			
	 came from Mississauga, and if it did, proceed assuming that this is the problem This problem arises from a known issue, in the way Varian uniquely identifies diagnostic equipment in its database. Info from Varan below: DICOM Import/Export application checks the uniqueness of all equipment values whereas the dbo.Equipment table's index XAK1Equipment checks al 					
	 equipment values except the InstitutionAddress Therefore, if only the InstitutionAddress is different during the insertion of a new entry in the dbo. Equipment table, the operation fails and throws an error as it is considered as a duplicate entry 					
Trootmont						
Treatment	Clear the InstitutionAddress value in the DICOM tag.					