

# Graduation Project Week #8

## Meeting Minutes

### \* Agenda

1. Presentation of the research paper
2. Discussing the progress of data standardization
3. GANS samples generation progress discussion
4. Web DICOM viewer progress
5. Left Ventricle segmentation model progress discussion
6. Planning next steps for next week

### \* Meeting Points

- Paper Presentation and Discussion:
  - Presented and discussed the paper titled "Generating Synthetic Data for Medical Imaging."
- Data Reorganization and Standardization:
  - Discussed the progress made in standardizing and sampling the dataset.
  - Requested modifications to further improve the process
- Synthetic Data Progress:
  - Discussed modifying the no-flow zone by ensuring it is more closely surrounded by the infarction, with the no-flow zone not exceeding the size of the infarction.
  - Proposed setting an acceptable size ratio for the infarction to improve data realism.
- Web DICOM Viewer Progress:
  - Reviewed recent progress on the web-based DICOM viewer.
  - Discussed options for moving forward with OHIF. Decided that if we proceed with OHIF, we will not use Orthanc and will instead focus on modifying OHIF directly or consider implementing a DICOM viewer from scratch.
- Model Work:
  - Discussed work on a pre-trained model to segment the left ventricle.

### \* Attendees

Hana Hesham (Leader)  
Omar Emad (Presenter)  
Omar Nabil  
Khaled Badr

### \* Planning Next Meeting

- Courses: Highest priority assigned to making progress on ongoing courses.
- Data Modifications: Apply the requested modifications to the dataset.
- Model Work: Ensure images maintain their aspect ratio during resizing, and apply histogram equalization or a localization method before using the model.
- Synthetic Data: Apply the suggested techniques.
- Web DICOM Viewer Development: Decide on using modified OHIF or custom viewer
- Next Meeting Scheduling
  - The next team meeting is scheduled for the 29th of October at 9:00 PM."