Weekly Meeting with Dr. Hannah

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✅ 1. Prospective Sheet & RTSTRUCT Cross-Verification

- **Dr. Julia Ma'am** completed RTSTRUCT submissions for **101 patients** (from **28 Nov 2024 to 22 July 2025**).
- She also updated **Diagnosis** and **Intent of Treatment** columns for these patients.
- I **cross-checked all submissions** and confirmed RTSTRUCTs were received in **Orthanc**.
- For any missing RTSTRUCTs, I added comments under the **"Comment from Hasan"** column in the main prospective sheet:
    - ➤ `Data collection sheet_HNCradiomics_prospective_retrocohort`
- The main sheet is now **fully updated and synchronized**.

📥 2. Backup Reminder

- Since the sheet is now updated till **22 July 2025**, I kindly request you to download and store a **local backup** of the main prospective sheet for safety.

3. HNC-CNN Reproducibility Study — Data Understanding

- **Input**:
  - ➤ CT Scans → PNG format from canada_c/, maastro_c/
  - ➤ Clinical CSVs (canada.csv, maastro.csv)
- **Prediction Goal**:
  - ➤ Binary prediction of **Distant Metastasis (DM)** within **2 years (730 days)**
- **Dataset Split**:
  - ➤ **Train Set**: 183 scans (HGJ + CHUS) → 26 distant metastasis (DM) events
  - ➤ **Validation Set**: 95 scans (HMR + CHUM) → 14 DM events
  - ➤ **Test Set**: 109 scans (maastro_c/) → 7 DM events

⚙️ 4. Checklist for Reproducibility from the GitHub Repo

- **Seed Initialization**:
  - `random.seed(7651962)`
  - `random_seed_split = random.randint(0, 9174937)`
  - `torch.manual_seed(775135)`
- **Hardware Note**:
  - Results may differ on **x86** (our system) due to PyTorch `Dropout` behavior.
  - Tested reproducibility was on **ARM-based architecture**.
- **Reference Script**:
  - `/data/models/training_example_dm.py` contains training settings used in the paper.

5. Comparison b/w the expected (paper) results vs our results:

Metric	Paper (Expected)	Our Results
Epoch	~689	**2580**
Val AUC	**0.89**	**0.69** 🔻
Test AUC	**0.89**	**0.75** 🔻
Early Stop?	Yes (at 689)	Yes (but at **2580**)