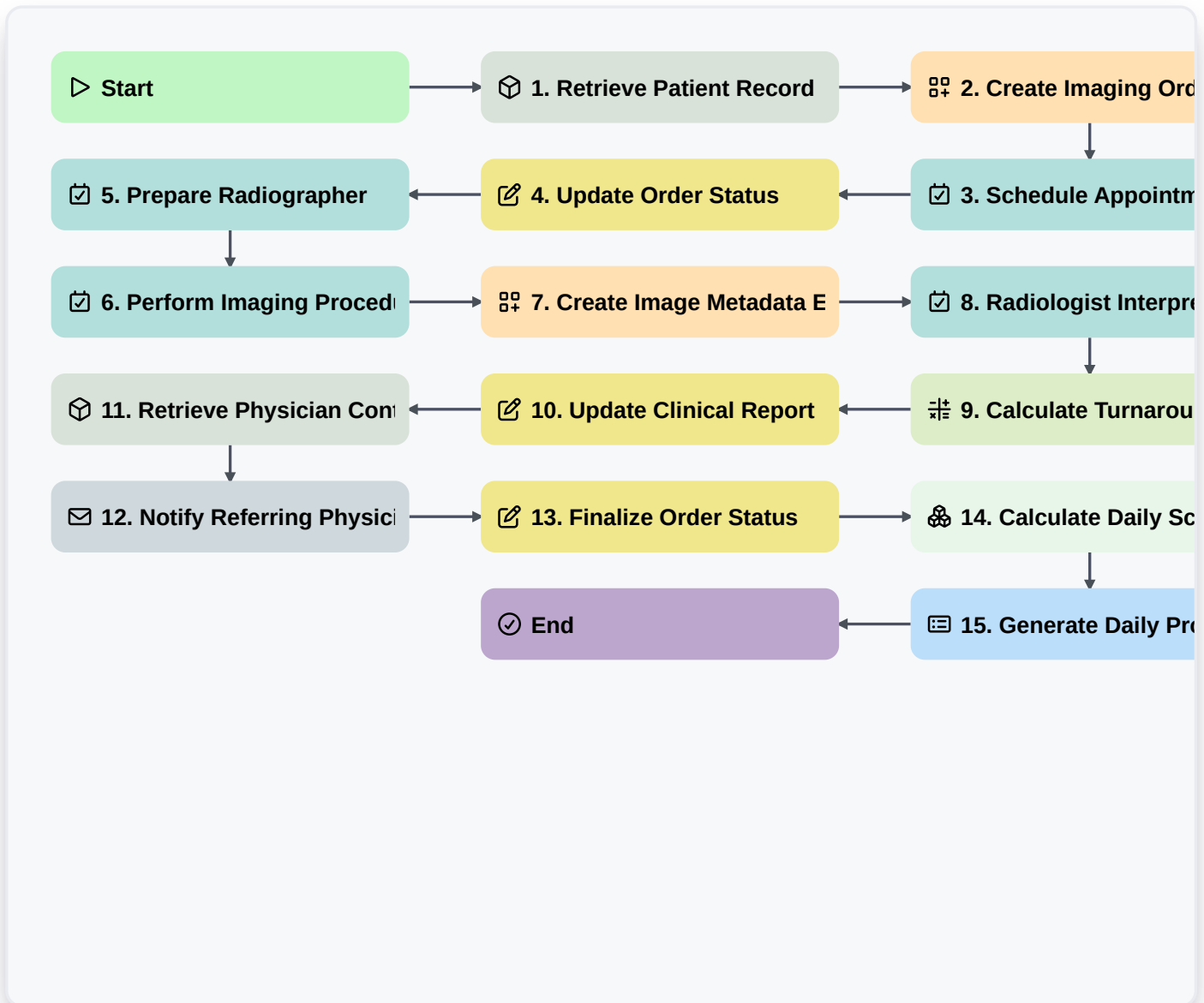


Radiology Imaging Workflow And Management



▷ Start

Start of the Workflow/Process.

📦 1. Retrieve Patient Record

Fetch existing patient information from the Patient Data Model to populate the imaging request.

📋 2. Create Imaging Order

Create a new entry in the Imaging Orders data model once a physician request is received.

📅 3. Schedule Appointment

Assign a task to the Scheduling Department to find an available time slot for the patient.

✍️ 4. Update Order Status

Update the Imaging Order entry status to 'Scheduled' once a time slot is confirmed.

📋 5. Prepare Radiographer

Assign a task to the Radiographer to prepare the specific modality (MRI, CT, X-Ray) and room.

📋 6. Perform Imaging Procedure

Assign a task to the Radiologist/Technician to execute the scan according to the protocol.



7. Create Image Metadata Entry

Create an entry in the Imaging Results model containing DICOM metadata and scan parameters.

8. Radiologist Interpretation

Assign a task to the Radiologist to review the images and draft the clinical report.

9. Calculate Turnaround Time (TAT)

Calculate the duration between the 'Order Created' timestamp and the 'Report Completed' timestamp.

10. Update Clinical Report

Update the Imaging Results entry with the final diagnostic findings and impressions.

11. Retrieve Physician Contact

Get the contact details of the referring physician from the Physician Data Model.

12. Notify Referring Physician

Send an automated email to the physician containing the link to the finalized report.

13. Finalize Order Status

Update the original Imaging Order entry to 'Completed'.

14. Calculate Daily Scan Volume

Aggregate the total count of completed imaging entries for the current date to monitor department workload.

15. Generate Daily Productivity Report

Generate a report summarizing completed scans, average TAT, and pending orders for clinic management.

End

End of the Workflow/Process.