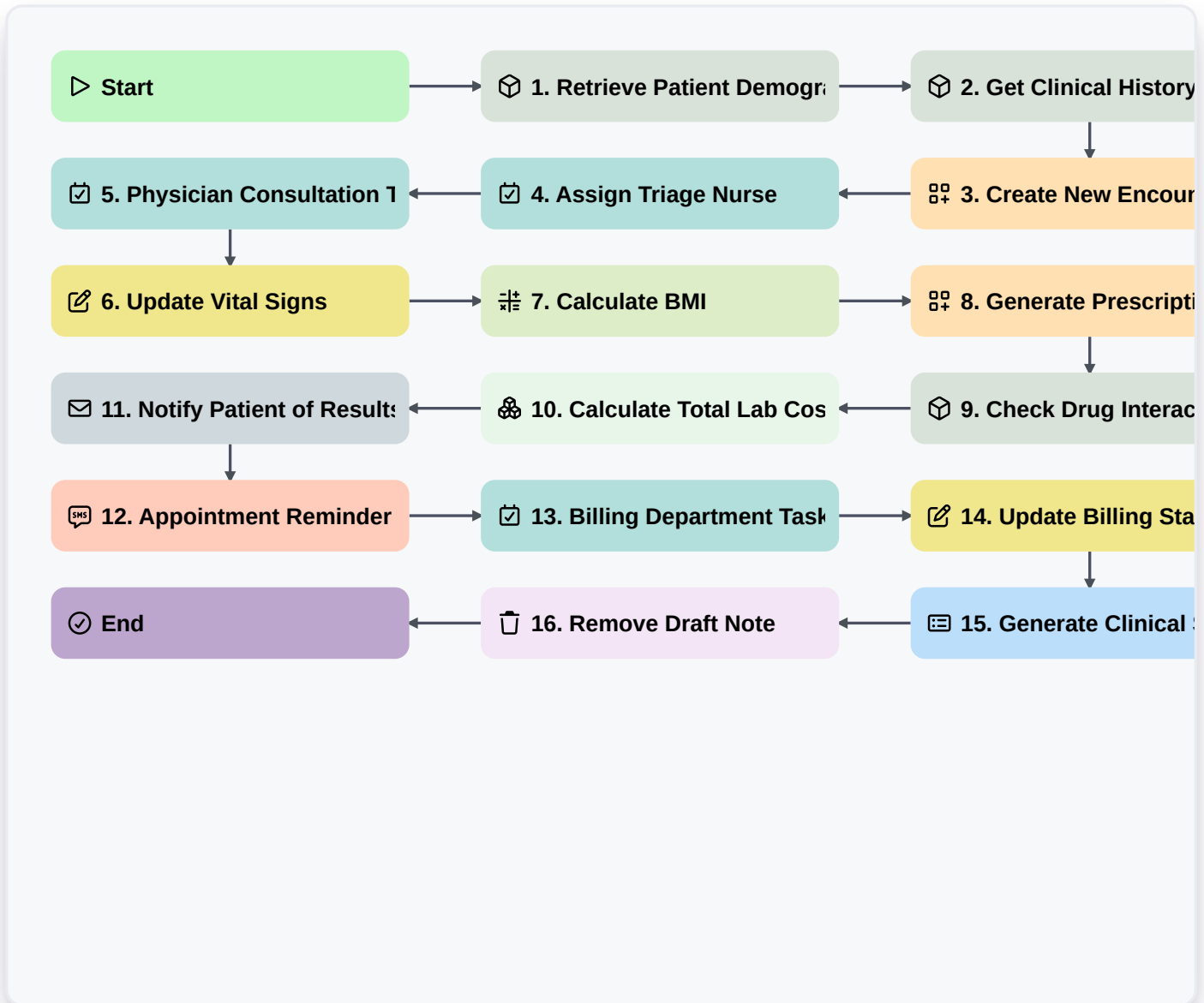


# Electronic Health Record (EHR) Management Process



## ▶ Start

Start of the Workflow/Process.

## 📦 1. Retrieve Patient Demographics

Fetch existing patient records from the Patient Data Model to verify identity.

## 📦 2. Get Clinical History

Retrieve previous medical encounters and allergies from the Clinical Data Model.

## 📦 3. Create New Encounter Record

Initialize a new encounter entry in the Encounter Data Model for the current visit.

## ✅ 4. Assign Triage Nurse

Create a task for the Triage Nurse to record vital signs and initial assessment.

## ✅ 5. Physician Consultation Task

Create a task for the attending physician to perform examination and diagnosis.



## **6. Update Vital Signs**

Update the specific encounter entry with newly captured blood pressure, heart rate, and temperature.

## **7. Calculate BMI**

Execute formula using Weight and Height from the clinical entry to calculate Body Mass Index.

## **8. Generate Prescription**

Create a new entry in the Medication Orders Data Model based on physician input.

## **9. Check Drug Interactions**

Get existing medication entries for the patient to run against a contraindication check.

## **10. Calculate Total Lab Costs**

Aggregate all 'Cost' properties from Lab Order entries related to the current encounter.

## **11. Notify Patient of Results**

Send an email notification to the patient's registered email address regarding new lab results.

## **12. Appointment Reminder SMS**

Send an SMS to the patient's phone number for upcoming follow-up appointments.

## **13. Billing Department Task**

Create a task for the Billing Clerk to process the invoice for the encounter.

## **14. Update Billing Status**

Update the Encounter entry status to 'Billed' once the payment process is initiated.

## **15. Generate Clinical Summary Report**

Create a PDF summary report containing all data from the encounter and clinical notes.

## **16. Remove Draft Note**

Delete a temporary or erroneous draft note entry from the Clinical Notes Data Model.

## **End**

End of the Workflow/Process.