

# WORKFLOW MAPPING OF A PATIENT JOURNEY FROM ER TO DISCHARGE IN A MULTISPECIALTY HOSPITAL

## 1. Abstract

This case study simulates a complete patient journey from emergency room (ER) arrival to discharge, emphasizing healthcare system structure, clinical terminology, interdepartmental communication, and role-specific documentation. It guides students through standard processes using diagrams, role-based vocabulary, and real-world terminology used in charting and electronic health records (EHR).

## 2. Learning Objectives

- Understand patient flow across departments in a hospital setting
- Learn terminology specific to each stage of hospital care
- Analyze role-specific responsibilities using a swimlane diagram
- Apply clinical terms to real-world transitions (triage, diagnosis, care, discharge)

## 3. Swimlane Diagram: Hospital Workflow

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Patient	ER Nurse	Physician	Radiology/Lab	Discharge Nurse
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Arrives in ER	Triage	Review chart	Orders MRI/Labs	Prepare summary
Registration	Vitals	Diagnosis	Collect data	Discharge forms
Wait in queue	Charts	Prescribes	Upload results	Counseling
Transport	Monitor	Updates EHR	Notify physician	Final sign-off
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## 4. Key Terminology by Role

### Department/Role Terms Commonly Used

ER Nurse	Triage, Vitals, GCS, NPO, SBAR format
Physician	Diagnosis, Differential Dx, ICD-10, SOAP, Disposition
Radiology/Lab	PACS, CBC, CMP, Imaging Protocol, STAT
Ward Nurse	PRN, IV line, Bedside notes, Chart update
Discharge Unit	MAR, Follow-up, Home care instructions, Readmission risk

## 5. Case Example: Fractured Arm

### Step-by-Step Flow

#### 1. ER Arrival

- Term: Triage Level 2
- Nurse records vitals (BP, HR), pain scale = 8/10

#### 2. Assessment

- Physician enters preliminary diagnosis: Possible radius fracture
- Orders X-ray STAT

#### 3. Radiology

- Result: Distal radial fracture, non-displaced
- Physician updates EHR and plans for casting

#### 4. Treatment

- Nurse administers analgesics PRN
- Arm is immobilized and patient is observed overnight

#### 5. Discharge

- Summary includes injury, procedure, medication, follow-up date
- MAR updated, discharge note sent via EHR

## 6. Visualization: Timeline

Time	Action
12:15 PM	Patient arrives at ER
12:45 PM	Seen by triage nurse, initial notes made
1:30 PM	X-ray ordered
2:15 PM	Physician explains diagnosis
3:00 PM	Casting complete
4:00 PM	Observation in ward
10:00 AM (next day)	Discharged with full instructions

## 7. Assignment Tasks

1. Create your own swimlane diagram for a different condition (e.g., chest pain, head injury).
2. Write a short paragraph explaining how terms like “SOAP”, “PRN”, and “Disposition” are used.
3. Match hospital roles with their standard terminology.
4. Design a simplified discharge summary using standard format.

## 8. Learning Outcome Matrix

Outcome	Activity
System understanding	Workflow mapping
Vocabulary usage	Role-based terminology table
Practical clinical thinking	Case walk-through and assignments
Written healthcare communication	Discharge summary design

## 9. Conclusion

Understanding hospital workflows and their embedded terminology equips students with a realistic view of how healthcare is organized. By simulating this flow, learners become better prepared to operate within interprofessional teams and interpret documentation with accuracy.

## 10. References

- Joint Commission Documentation Guidelines
- WHO: Hospital Workflow Process Framework
- EHR User Guide – Epic Systems
- Healthcare Terminology Reference Guide (ANA, HIMSS)