



**A CROSS-SECTIONAL STUDY TO IDENTIFY AND ANALYZE  
FACTORS CONTRIBUTING TO DELAYS IN INPATIENT  
DISCHARGE TURNAROUND TIME IN A 170-BEDDED  
TERTIARY CARE FACILITY-CARE HOSPITAL, RAMNAGAR,  
VISAKHAPATNAM FROM MARCH 2025 TO APRIL 2025**

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**MBA Health Management**

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# ABSTRACT

**Background:** Efficient discharge is vital for patient satisfaction, operational performance, and timely bed turnover. Discharge delays reflect systemic and coordination challenges.

**Objectives:** To identify and analyze the reasons that are contributing to the increased overall IPD discharge TAT and to analyze the following TATs in detail

- TAT1: Discharge Intimation
- TAT2: Summary Preparation
- TAT3: Pharmacy Clearance
- TAT4: Bill Preparation
- TAT5: Bill Settlement
- TAT6: Bed Release

**Methodology:** 547 discharges (Cash: 97, Insurance: 115, PSU: 335) analyzed using SOPEONOW + direct observation. Data processed in SPSS; chi-square test used ( $p \leq 0.05$  considered as significant).

**Key Result :** Cash -Significant TAT2, TAT4 delays; high unplanned discharges; Insurance: Significant TAT2, TAT3, TAT4, TAT5 delays; PSU: Significant TAT1, TAT2, TAT4, TAT5, TAT6 delays; unplanned cases.

**Conclusion:** Standardize consultant round timings to reduce variability, streamline pharmacy and billing processes. improve coordination among billing, nursing, PREs, and attenders. Introduce EMR and digital tracking for real-time process visibility.

**Keywords:** IPD Turnaround Time (TAT), Discharge Process, Discharge Summary, Pharmacy TAT, Billing TAT, Bed Release, Delay Factors, Operational Efficiency.

# OVERVIEW OF CARE HOSPITAL

CARE Hospitals, part of the Evercare Group, is a leading multispecialty healthcare provider in South Asia and Africa, founded in 1997 in Hyderabad. With 16 hospitals across 6 states in India, CARE serves over 25 million people, focusing on affordable, accessible care in non-metro cities

## IPD Floor-wise Overview & Discharge Workflow – CARE Hospitals

- Ground to Third Floor:
  - Ground Floor: MICU (12+4 isolation beds), Emergency Dept. (10 beds)
  - First Floor: CATH lab (10 beds), 41-bed wards, Dialysis, Admin & Nursing Stations – caters to PSU/package patients.
  - Second Floor: 4 OTs (Cardiac/Neuro), 55 ICU+ ward beds, IP pharmacy – no duty doctor.
  - Third Floor: General OTs, Post-anaesthesia & Neuro ICU (16 beds), 22 private beds.
- Discharge Workflow:
  - Initiated post consultant approval.
  - Planned discharges (night billing): Summary/billing prepared in advance for faster processing.
  - Unplanned discharges: Delay due to pending billings/documentation.
  - Discharge initiated by nursing station → Summary typed → Pharmacy clearance → Billing audit → Bill handed to attenders → Clearance slips issued → Security exit.
  - PRE coordinates the entire process, ensuring communication with pharmacy, billing, and nursing.
  - Medicines (if included in package) are pre-arranged by inpatient pharmacy.

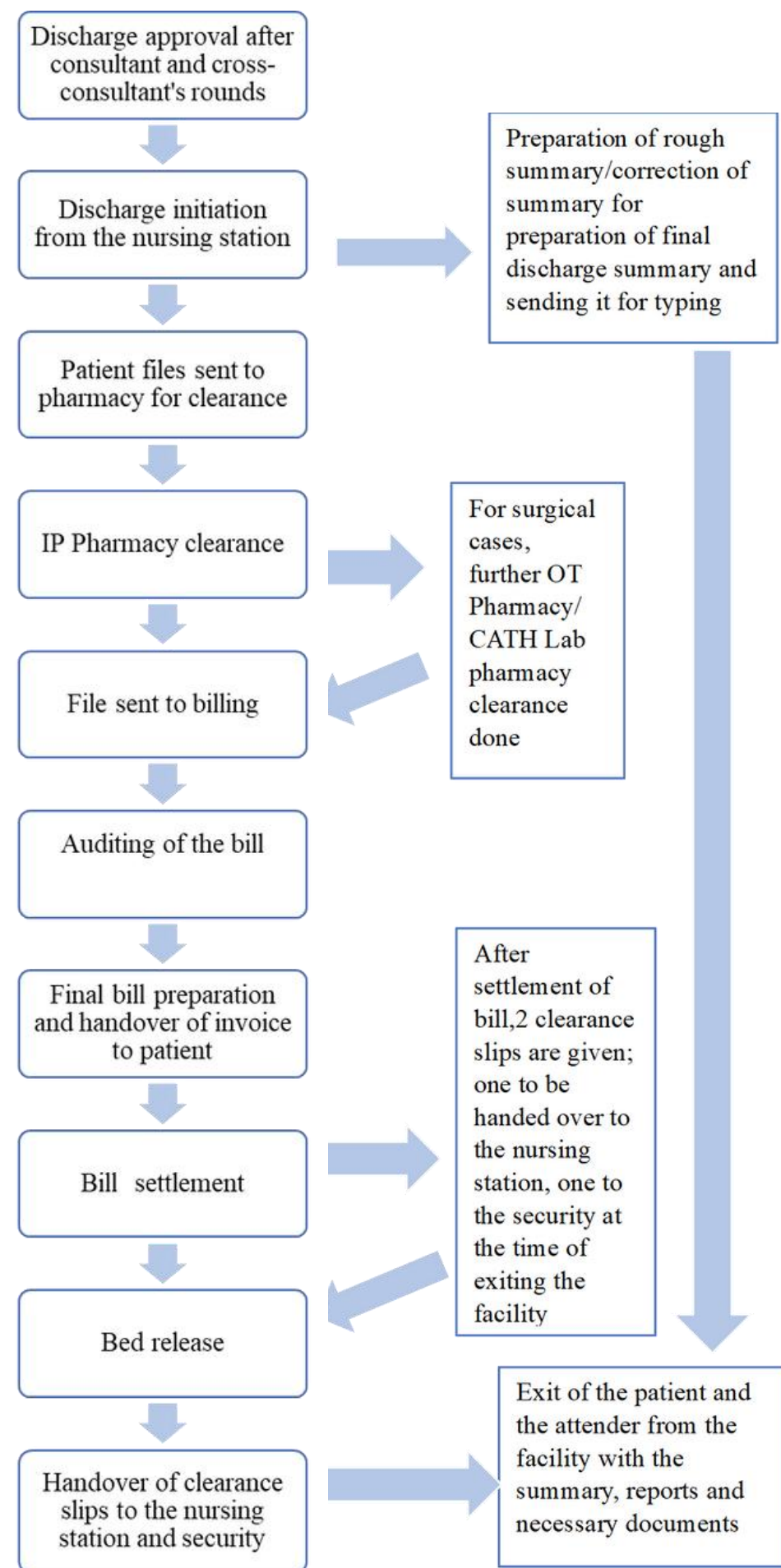


# INTRODUCTION

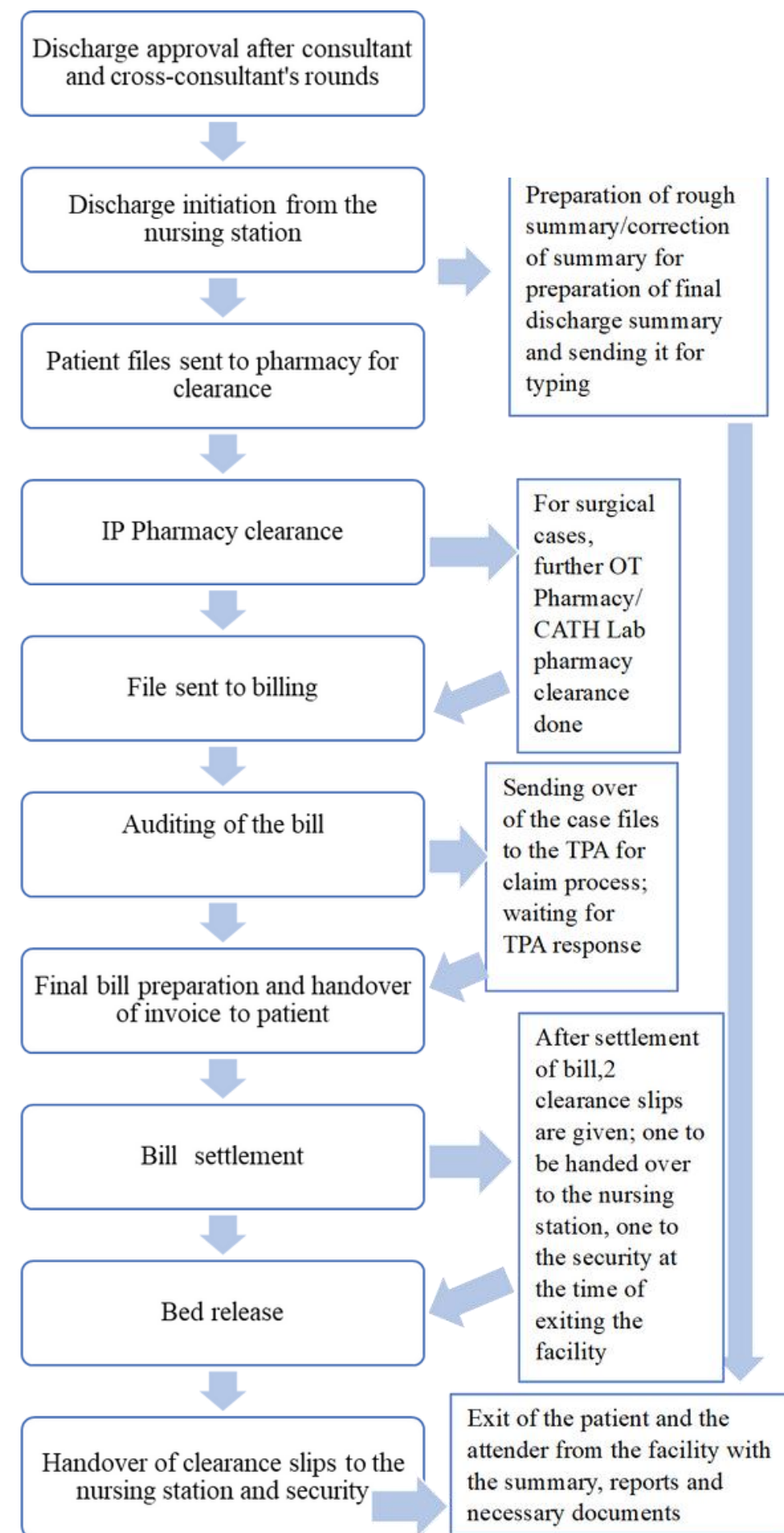
Inpatient care involves admission, treatment, and discharge—the latter being a complex, multi-step process requiring coordination across clinical and administrative teams.<sup>1-2</sup> Delays in discharge affect hospital efficiency, bed availability, patient satisfaction, and increase the risk of hospital-acquired infections.<sup>2-5</sup> Common bottlenecks include incomplete documentation, pending billing, and poor interdepartmental communication.<sup>2, 6-9</sup> Patients are broadly classified as cash/self-pay or insurance-covered.<sup>17</sup> Insurance includes public schemes like Rajiv Gandhi Aarogyasri (AP), BSKY (Odisha), Aarogya Sahayata, Aarogya Bhadrata, CGHS, ESI, and ECHS, as well as private insurance with cashless or reimbursement options.<sup>10-19</sup>

| S. No | TAT                      | CASH     | INSURANCE | PSUs     |
|-------|--------------------------|----------|-----------|----------|
| 1     | Discharge intimation TAT | 10 mins  | 10 mins   | 10 mins  |
| 2     | Discharge Summary TAT    | 20 mins  | 20 mins   | 20 mins  |
| 3     | Pharmacy Clearance TAT   | 10 mins  | 10 mins   | 10 mins  |
| 4     | Bill Preparation TAT     | 20 mins  | 20 mins   | 20 mins  |
| 5     | Bill Settlement TAT      | 30 mins  | 150 mins  | 60 mins  |
| 6     | Bed Release TAT          | 30 mins  | 30 mins   | 30 mins  |
|       | TOTAL DISCHARGE TAT      | 120 mins | 240 mins  | 150 mins |

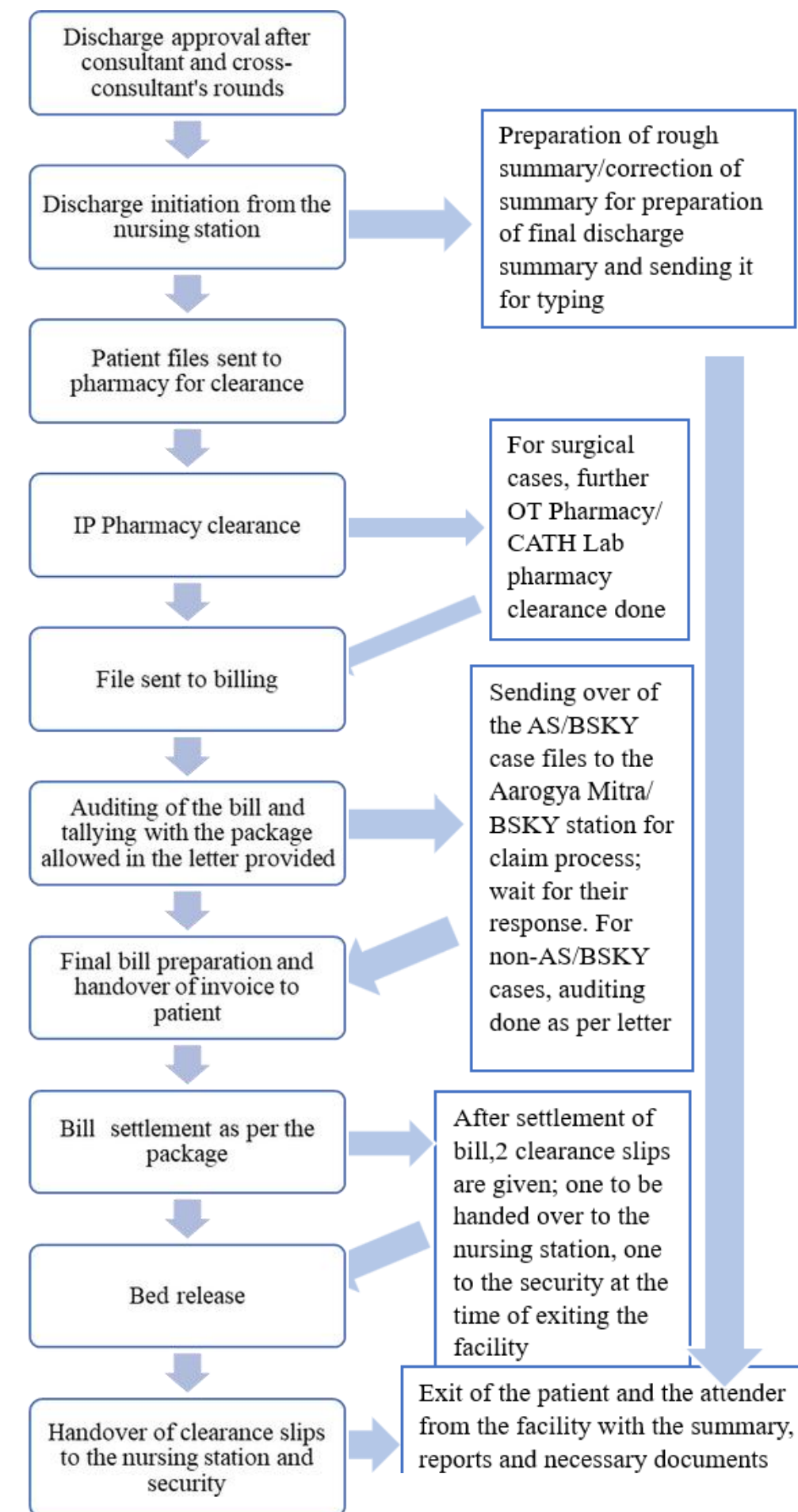
## PROCESS FLOW FOR CASH PATIENTS



## PROCESS FLOW FOR INSURANCE PATIENTS



## PROCESS FLOW FOR PSU PATIENTS



## RESEARCH QUESTIONS

### **Broad research question-**

What are the reasons contributing to the delays in the IPD discharge leading to an increase in the discharge TAT?

### **Specific research questions-**

1. What are the reasons leading to the increase in the TAT of discharge intimation?
2. What are the reasons leading to the increase in TAT of discharge summary preparation?
3. What are the reasons leading to the increase in pharmacy clearance TAT?
4. What are the reasons leading to the increase in bill preparation TAT?
5. What are the reasons leading to the increase in bill payment TAT?
6. What are the reasons leading to the increase in bed release TAT?

## OBJECTIVES

### **Broad Objective-**

To identify and analyse the reasons that are contributing to the increased IPD discharge TAT. (TAT0)

### **Specific Objectives-**

1. To identify and analyse reasons that are contributing to the increase in the discharge intimation TAT. (TAT1)
2. To identify and analyse reasons that are contributing to the increase in the discharge summary preparation TAT. (TAT2)
3. To identify and analyse reasons that are contributing to the increase in the pharmacy clearance TAT. (TAT3)
4. To identify and analyse reasons that are contributing to the increased bill preparation TAT. (TAT4)
5. To identify and analyse reasons that are contributing to the increased bill payment TAT. (TAT5)
6. To identify and analyse the reasons that are contributing to the increased bed release TAT. (TAT6)

## HYPOTHESIS

- TAT1H0: TAT1 has no effect on TAT0
- TAT2H0: TAT2 has no effect on TAT0
- TAT3H0: TAT3 has no effect on TAT0
- TAT4H0: TAT4 has no effect on TAT0
- TAT5H0: TAT5 has no effect on TAT0
- TAT6H0: TAT6 has no effect on TAT0
- TAT0H0: The nature of the discharge (planned/unplanned) has no effect on TAT0

# REVIEW OF LITERATURE

| <u>ARTICLE</u>                                                                                                                                                                                                                                       | <u>YEAR</u> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Kumar J. A study of the causes of delay in patient discharge process in a large multi-speciality hospital with recommendations to improve the turn around time. QAI Journal for Healthcare Quality and Patient Safety. 2022 Jan 1;3(1):13-20.</b> | <b>2022</b> |
| <b>Hendy P, Patel JH, Kordbacheh T, Laskar N, Harbord M. In-depth analysis of delays to patient discharge: a metropolitan teaching hospital experience. Clinical Medicine.2012 Aug 1;12(4):320-3.</b>                                                | <b>2022</b> |
| <b>Sharma MR,Kapadia N, Raval MS, Shah MS, Patel MA. A STUDY OF DISCHARGE PROCESS WITH STRATEGY TO REDUCE THE TURN AROUND TIME IN TERTIARY CARE HOSPITAL</b>                                                                                         | <b>2022</b> |
| <b>Chaudhari PS, Shinde V, Gudhe V. A Study on Reducing the Discharge Turnaround Time of IPD Patients at AVBRH.</b>                                                                                                                                  | <b>2021</b> |
| <b>Hisham S, Rasheed SA, Dsouza B. Application of predictive modelling to improve the discharge process in hospitals. Healthcare informatics research. 2020 Jul 31;26(3):166-74.</b>                                                                 | <b>2020</b> |
| <b>Pandit A, Prashar S. A study of the Discharge Process of a Multi-Specialty Hospital. SCOPUS IJPHRD CITATION SCORE. 2019 May;10(5):6.</b>                                                                                                          | <b>2019</b> |
| <b>Ortiga B, Salazar A, Jovell A, Escarrabill J, Marca G, Corbella X. Standardizing admission and discharge processes to improve patient flow: a cross sectional study. BMC health services research. 2012 Dec;12:1-6.</b>                           | <b>2012</b> |
| <b>Allen TT, Tseng SH, Swanson K, McClay MA. Improving the hospital discharge process with Six Sigma methods. Quality Engineering. 2009 Dec 7;22(1):13-20.</b>                                                                                       | <b>2009</b> |
| <b>Ajami S, Ketabi S. An analysis of the average waiting time during the patient discharge process at Kashani Hospital in Esfahan, Iran: a case study. Health Information Management Journal. 2007 Jul;36(2):37-42.</b>                              | <b>2007</b> |

## METHODOLOGY

**Study Design:** Cross-sectional, real-time observational study at CARE Ramnagar IPD (Mar 10–Apr 10, 2025).

**Scope:** Cash, insurance, and PSU patient discharges from IPD, HDU, CCU, and CATH labs.

**Sample size and sampling method:** 10% of total Dec–Feb discharges → 547 cases; 97 cash, 115 insurance, 335 PSU using convenience sampling method.

**Inclusion criteria-** IPD Discharges between 10 Mar–10 Apr 2025, **Exclusion criteria-** Discharges before/after study period, discharges on Sundays or for daycare procedures

**Data Collection:** SOPEONOW software for real-time data+ direct observation for delay causes; TATs (TAT1–TAT6) logged daily in Excel.

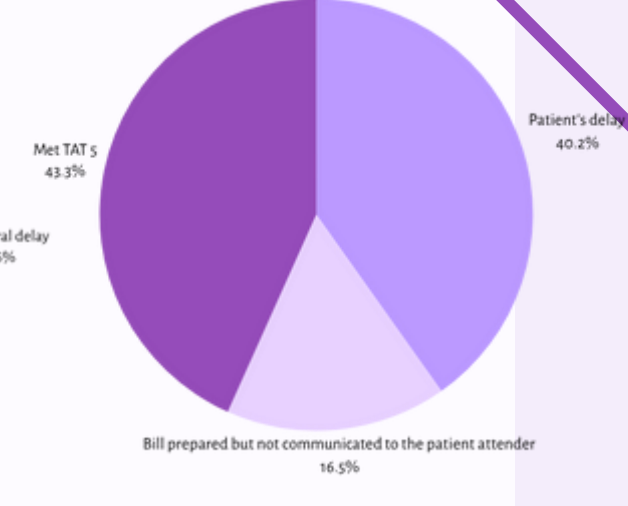
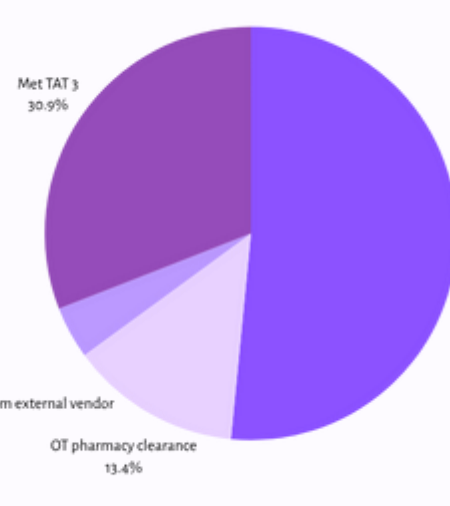
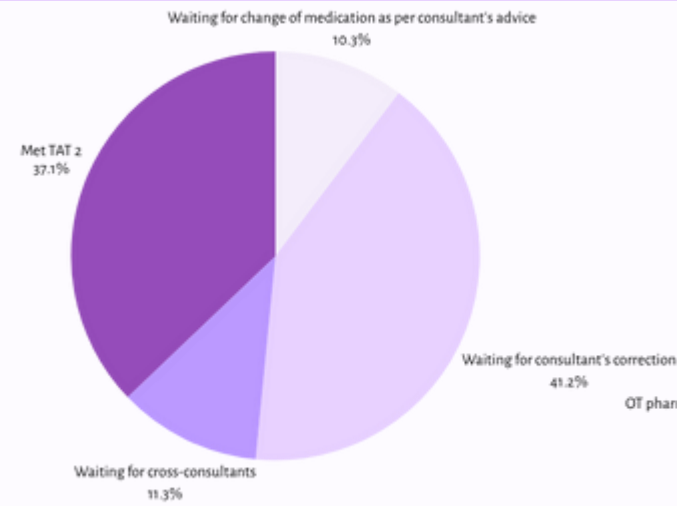
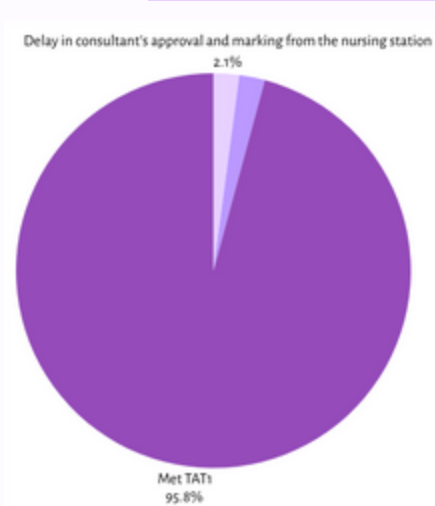
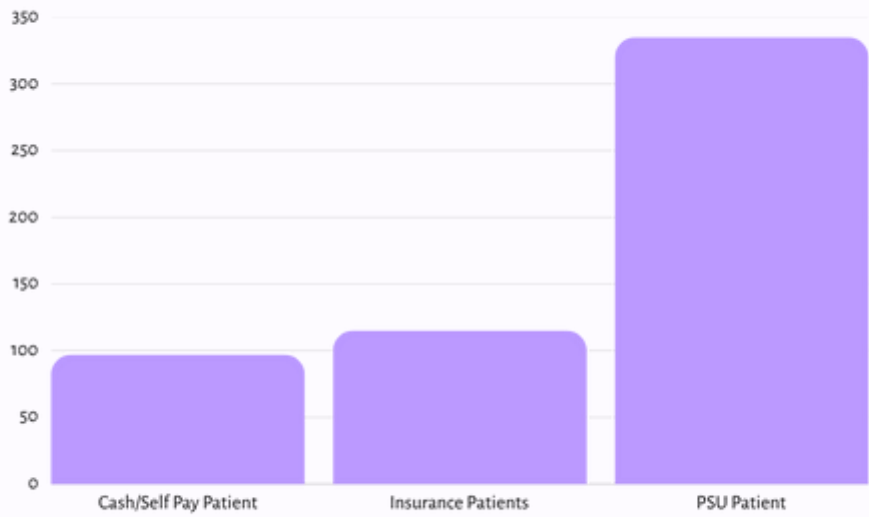
**Analysis:** Descriptive stats + chi-square ( $p \leq 0.05$ ) using IBM SPSS 27.

**Ethics:** Confidentiality ensured, permissions taken, verbal consent obtained.

**Bias Control:** Only directly observed data used; minimal observer influence.

**Limitations:** Single-center, short duration, excluded Sundays & daycare discharges.

# RESULT-CASH

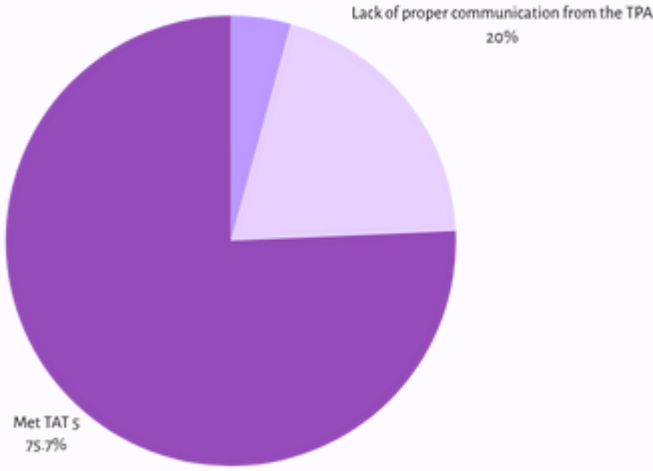
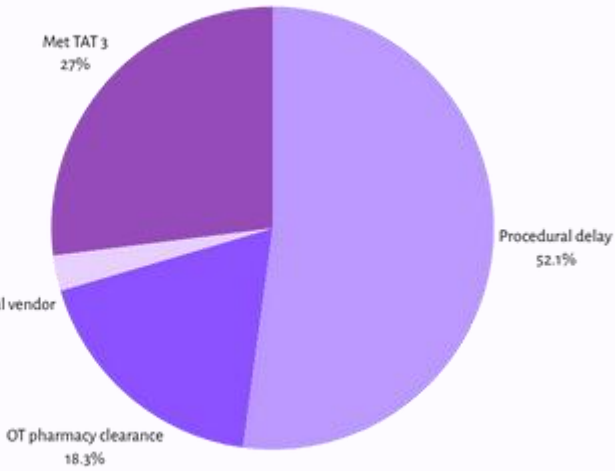
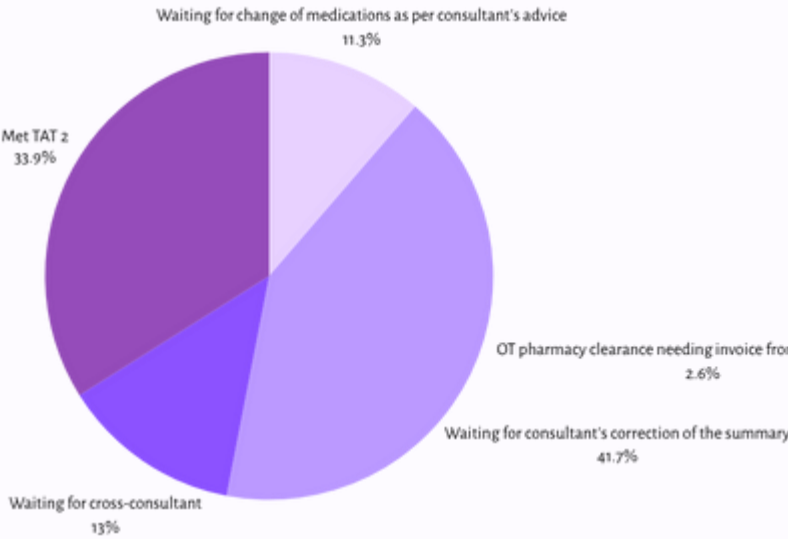


| TAT stage | Cases met KPI (%) | Median time (mins) | IQR | Minimum Time (mins) | Maximum Time (mins) |
|-----------|-------------------|--------------------|-----|---------------------|---------------------|
| TAT1      | 95.9              | 1                  | 1   | 0                   | 459                 |
| TAT2      | 37.1              | 60                 | 172 | 1                   | 10198               |
| TAT3      | 30.9              | 17                 | 21  | 3                   | 87                  |
| TAT4      | 58.8              | 17                 | 37  | 0                   | 1513                |
| TAT5      | 43.3              | 49                 | 125 | 0                   | 4378                |
| TAT6      | 90.7              | 0                  | 11  | 0                   | 94                  |
| TAT0      | 21.6              | 224                | 302 | 38                  | 10238               |

| Variable                        | Frequency of cases within TAT of the step and met overall IPD TAT | Total cases within TAT of that particular step | p-value |
|---------------------------------|-------------------------------------------------------------------|------------------------------------------------|---------|
| TAT1 (Discharge Intimation TAT) | 20                                                                | 93                                             | 0.868   |
| TAT2 * (Discharge Summary TAT)  | 18                                                                | 36                                             | <0.001  |
| TAT3 (Pharmacy clearance TAT)   | 7                                                                 | 30                                             | 0.788   |
| TAT4 * (Bill preparation TAT)   | 17                                                                | 57                                             | 0.02    |
| TAT5 (Bill settlement TAT)      | 13                                                                | 42                                             | 0.052   |
| TAT6 (Bed release TAT)          | 20                                                                | 88                                             | 0.42    |
| *p≤0.05                         |                                                                   |                                                |         |

| KPI (Met/Not Met) | Planned/Unplanned |           | Total | Asymptotic Significance (2-sided) ( <i>p-value</i> ) |
|-------------------|-------------------|-----------|-------|------------------------------------------------------|
|                   | Planned           | Unplanned |       |                                                      |
| Met KPI           | 5                 | 16        | 21    | 0.042*                                               |
| Not Met KPI       | 15                | 61        | 76    |                                                      |
| Total             | 20                | 77        | 97    |                                                      |
| * <i>p</i> ≤0.05  |                   |           |       |                                                      |

# RESULT-INSURANCE



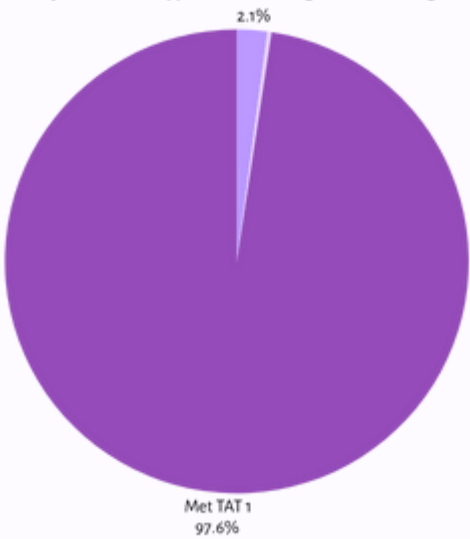
| Variable                        | Frequency of cases within TAT of the step and met overall IPD TAT | Total cases within TAT of that particular step | p-value |
|---------------------------------|-------------------------------------------------------------------|------------------------------------------------|---------|
| TAT1 (Discharge Intimation TAT) | 19                                                                | 110                                            | 0.875   |
| TAT2 * (Discharge Summary TAT)  | 12                                                                | 39                                             | 0.007   |
| TAT3 * (Pharmacy clearance TAT) | 9                                                                 | 31                                             | 0.045   |
| TAT4 * (Bill preparation TAT)   | 7                                                                 | 13                                             | 0.01    |
| TAT5 (Bill settlement TAT)      | 20                                                                | 87                                             | 0.005   |
| TAT6 (Bed release TAT)          | 20                                                                | 103                                            | 0.093   |
| *p≤0.05                         |                                                                   |                                                |         |

| TAT stage | Cases met KPI (%) | Median time (mins) | IQR | Minimum Time (mins) | Maximum Time (mins) |
|-----------|-------------------|--------------------|-----|---------------------|---------------------|
| TAT1      | 95.7              | 0                  | 1   | 0                   | 841                 |
| TAT2      | 33.9              | 47                 | 138 | 0                   | 4586                |
| TAT3      | 27                | 16                 | 19  | 3                   | 1061                |
| TAT4      | 4.3               | 184                | 152 | 0                   | 1053                |
| TAT5      | 75.7              | 52                 | 129 | 0                   | 3919                |
| TAT6      | 89.6              | 1                  | 10  | 0                   | 135                 |
| TAT0      | 17.4              | 407                | 423 | 4                   | 4967                |

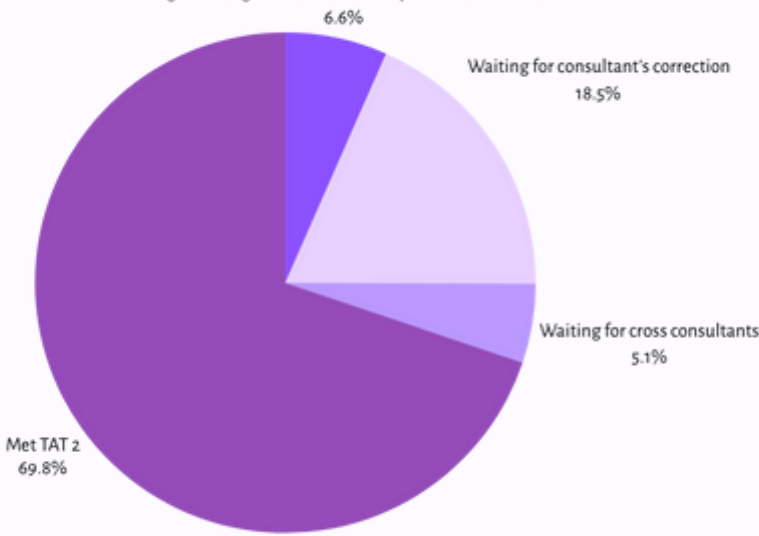
| KPI (Met/Not Met) | Planned/Unplanned |           | Total | Asymptotic Significance (2-sided) ( <i>p-value</i> ) |
|-------------------|-------------------|-----------|-------|------------------------------------------------------|
|                   | Planned           | Unplanned |       |                                                      |
| Met KPI           | 10                | 10        | 20    | 0.2                                                  |
| Not Met KPI       | 33                | 62        | 95    |                                                      |
| Total             | 43                | 72        | 115   |                                                      |
| * <i>p</i> ≤0.05  |                   |           |       |                                                      |

RESULT- PSU

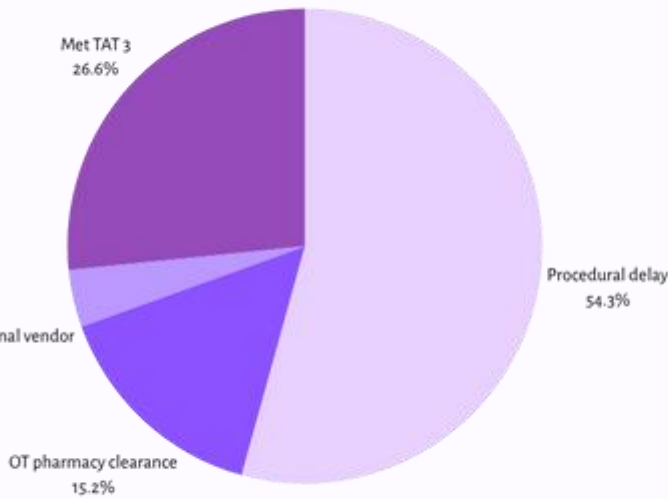
Delay in consultant approval and marking from the nursing station



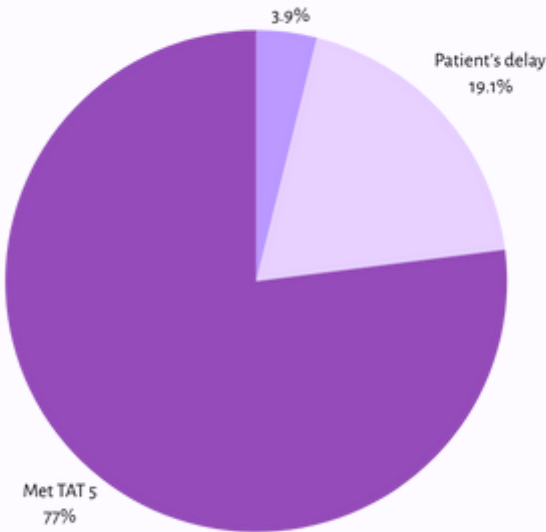
Waiting for change of medications as per consultant's advice



OT pharmacy clearance needing invoice from external vendor



Bill prepared but not communicated, leading to delay

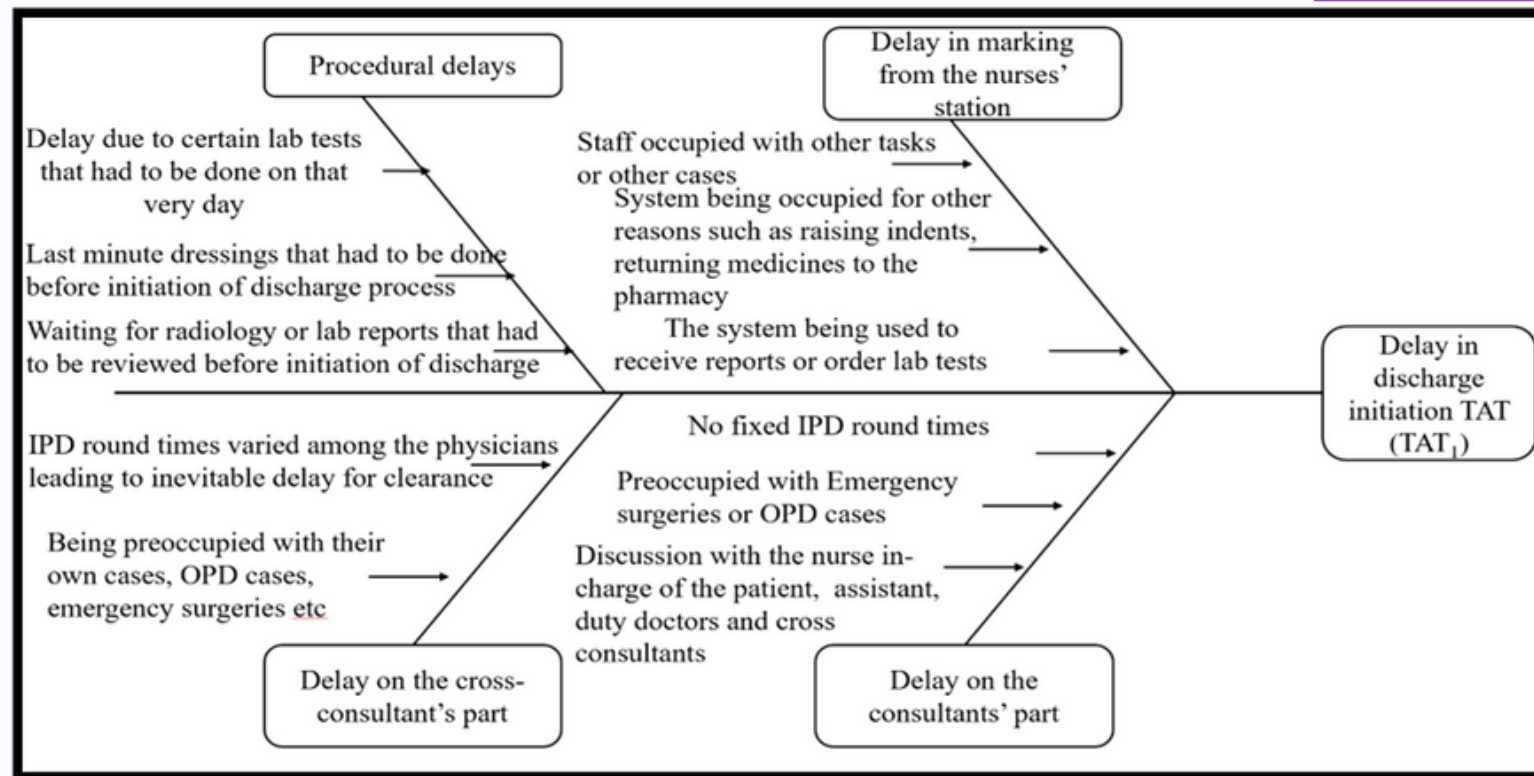


| TAT stage | Cases met KPI (%) | Median time (mins) | IQR | Minimum Time (mins) | Maximum Time (mins) |
|-----------|-------------------|--------------------|-----|---------------------|---------------------|
| TAT1      | 97.6              | 0                  | 1   | 0                   | 7087                |
| TAT2      | 69.9              | 0                  | 42  | 0                   | 11668               |
| TAT3      | 26.6              | 17                 | 19  | 1                   | 1244                |
| TAT4      | 71.9              | 4                  | 27  | 0                   | 1282                |
| TAT5      | 77                | 4                  | 45  | 0                   | 3753                |
| TAT6      | 85.7              | 4                  | 14  | 0                   | 361                 |
| TAT0      | 59.1              | 105                | 204 | 9                   | 12594               |

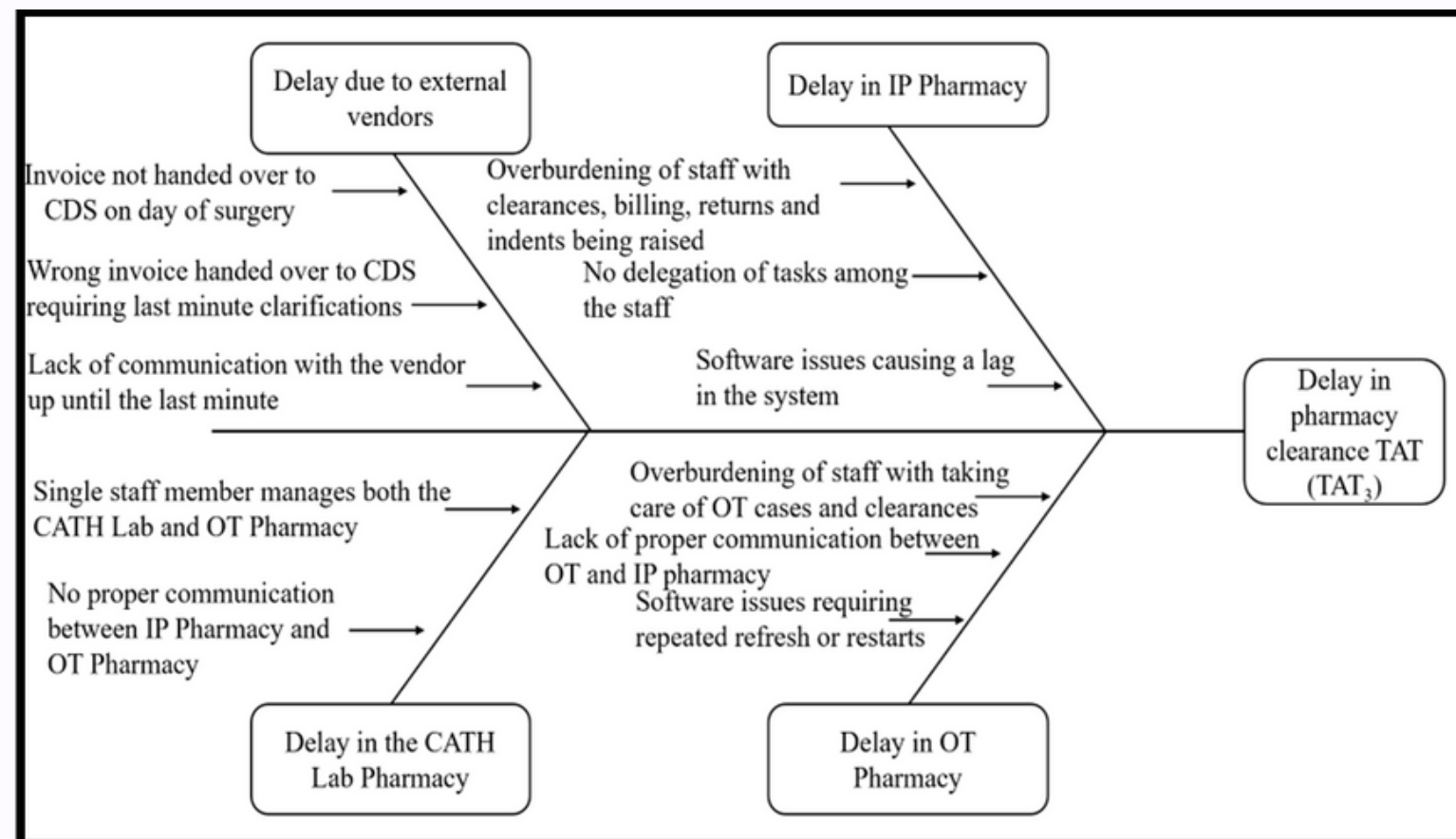
| Variable                         | Frequency of cases within TAT of the step and met overall IPD TAT | Total cases within TAT of that particular step | p-value |
|----------------------------------|-------------------------------------------------------------------|------------------------------------------------|---------|
| TAT1 *(Discharge Intimation TAT) | 196                                                               | 327                                            | 0.047   |
| TAT2* (Discharge Summary TAT)    | 176                                                               | 234                                            | <0.001  |
| TAT3 (Pharmacy clearance TAT)    | 59                                                                | 89                                             | 0.108   |
| TAT4* (Bill preparation TAT)     | 164                                                               | 241                                            | <0.001  |
| TAT5 *(Bill settlement TAT)      | 182                                                               | 258                                            | <0.001  |
| TAT6 *(Bed release TAT)          | 178                                                               | 287                                            | 0.008   |
| *p≤0.05                          |                                                                   |                                                |         |

| KPI (Met/Not Met) |             | Planned/Unplanned |           | Total | Asymptotic Significance (2-sided) |
|-------------------|-------------|-------------------|-----------|-------|-----------------------------------|
|                   |             | Planned           | Unplanned |       |                                   |
|                   | Met KPI     | 104               | 94        | 198   | 0.036*                            |
|                   | Not Met KPI | 56                | 81        | 137   |                                   |
| Total             |             | 160               | 175       | 335   |                                   |
| *p≤0.05           |             |                   |           |       |                                   |

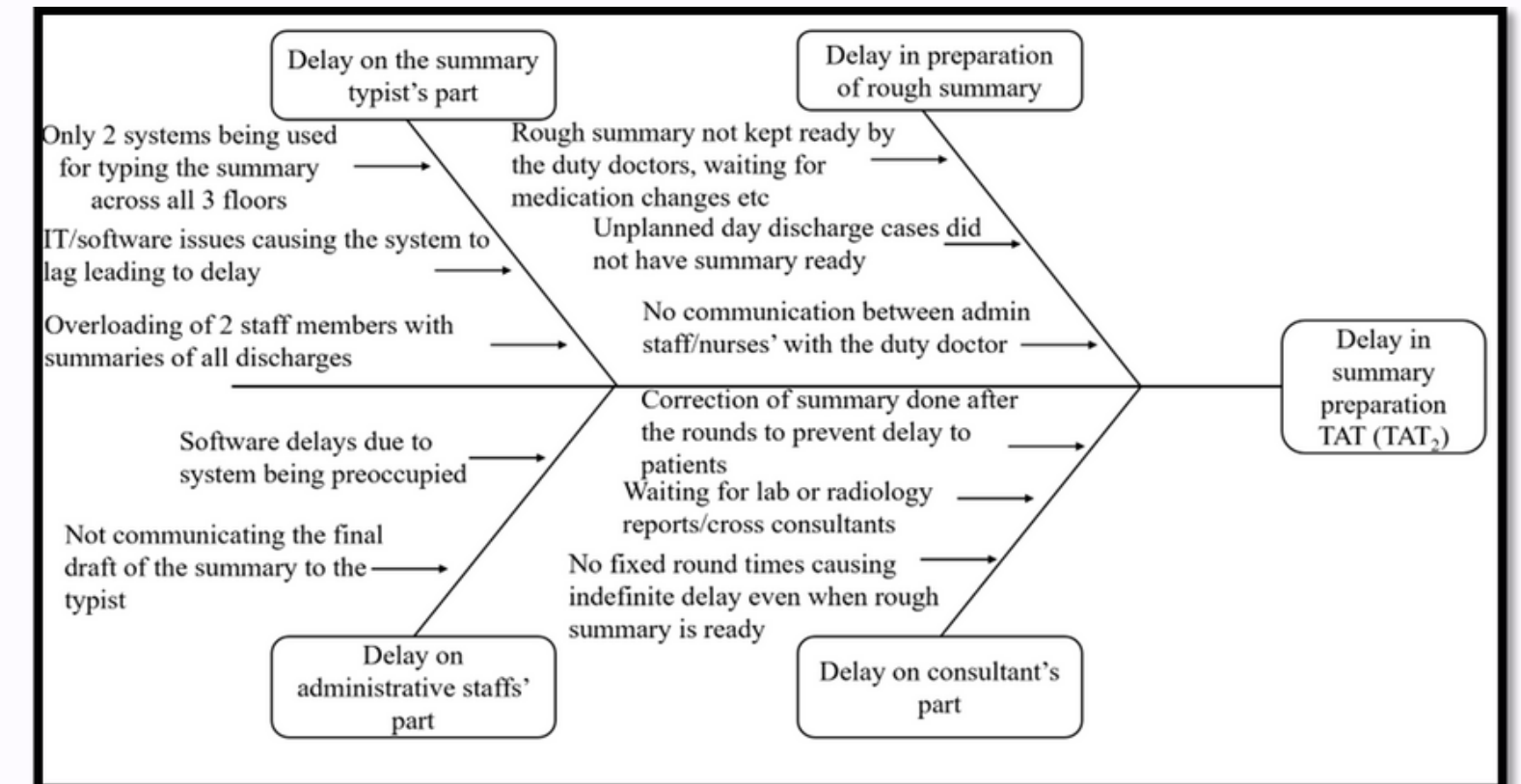
# DISCUSSION



Fishbone diagram depicting factors contributing to delay in discharge initiation

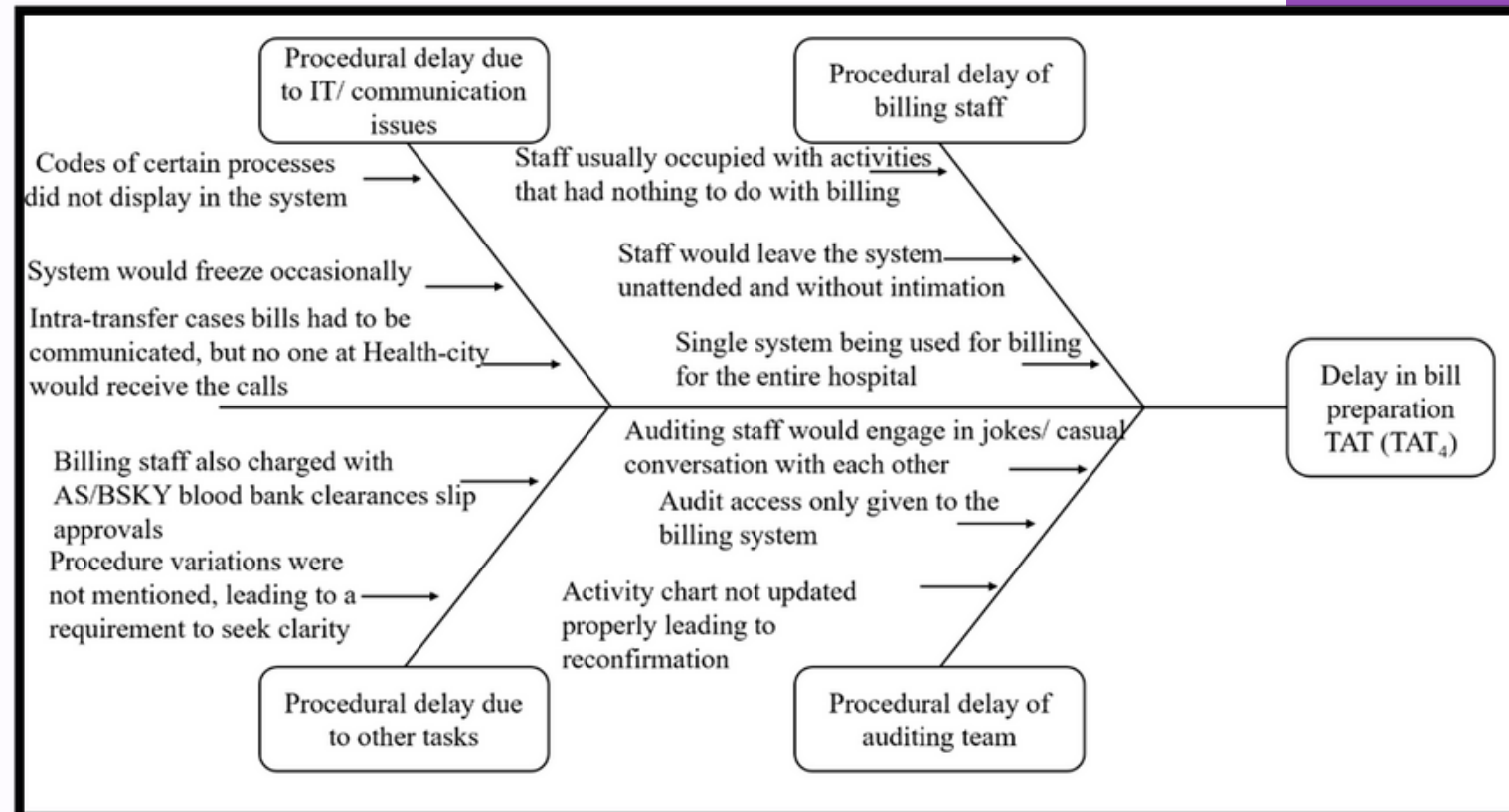


Fishbone diagram depicting factors contributing to delay in pharmacy clearance

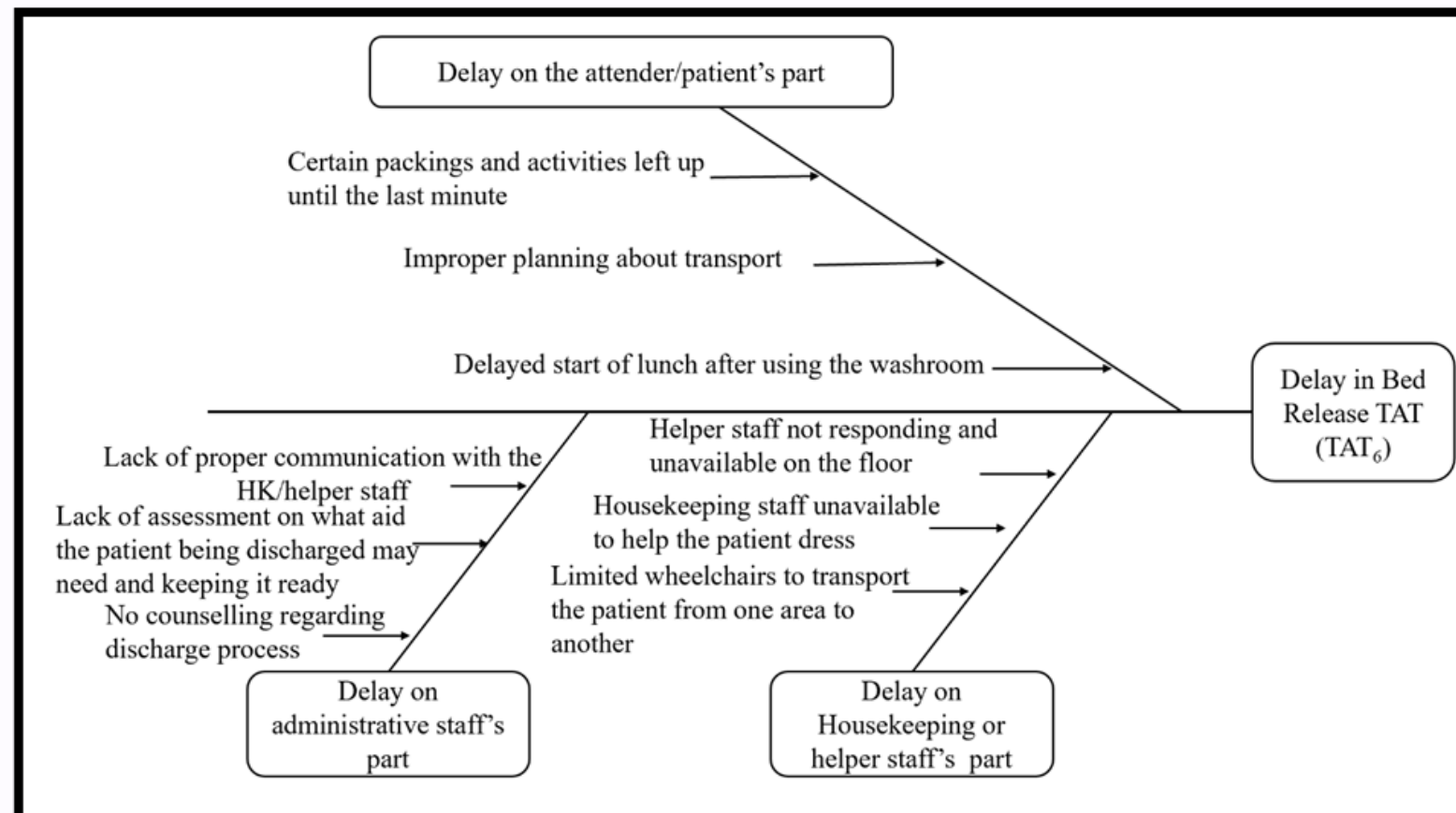


Fishbone diagram depicting factors contributing to delay in discharge summary preparation

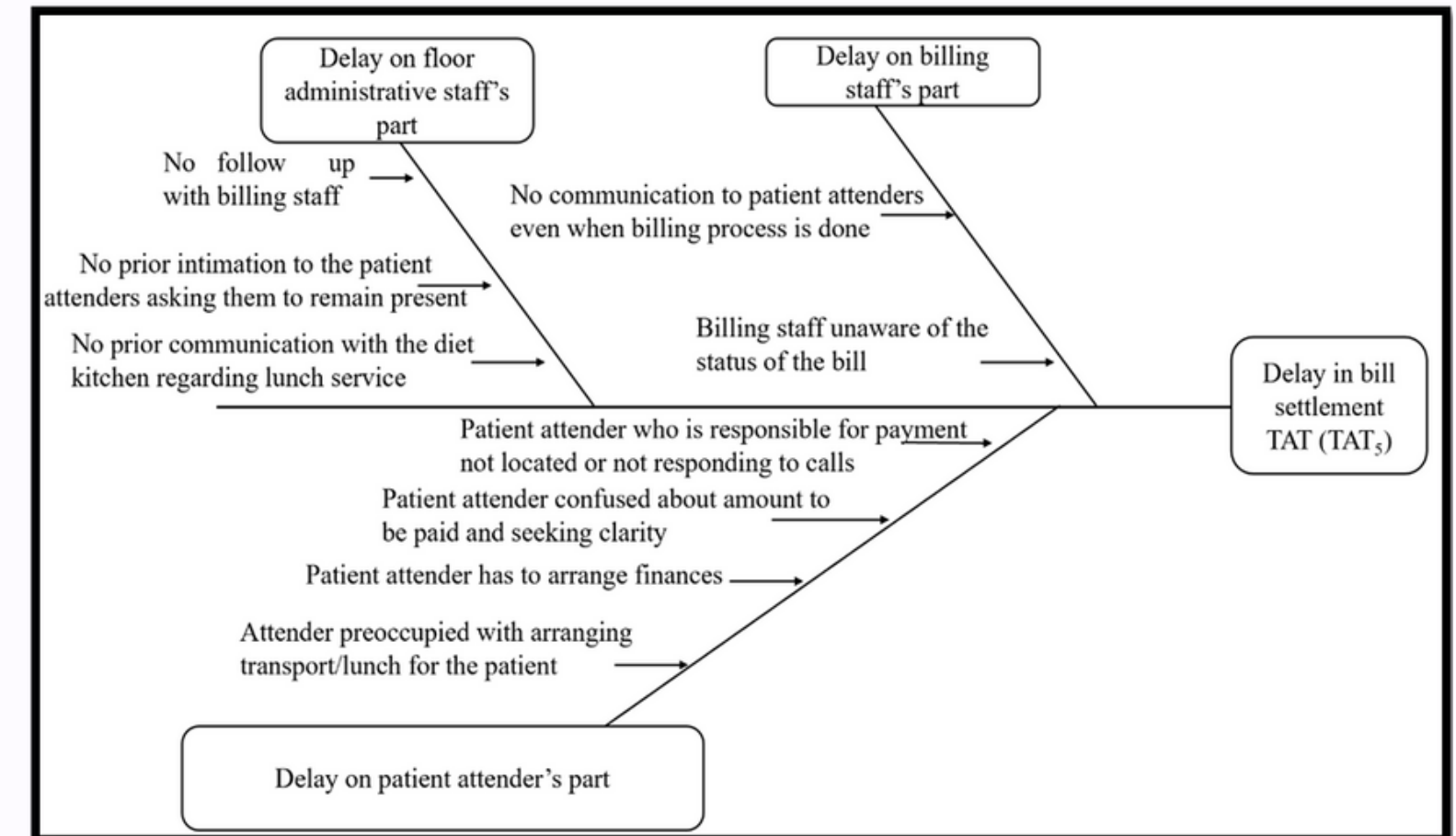
# DISCUSSION



Fishbone diagram depicting factors contributing to delay in bill preparation



Fishbone diagram depicting factors contributing to delay in bed release



Fishbone diagram depicting factors contributing to delay in bill settlement

# RECOMMENDATIONS

## **Discharge Intimation & Summary Preparation**

- Structured consultant rounds: Scheduled timing (early afternoon) with no OPDs to allow planned discharges.
- Pharmacy coordination: PREs must inform pharmacy a day prior, advance tests and dressings: Labs/radiology pre-booked early in the morning.
- Early summary preparation: Summary typing initiated post rounds; typist slots fixed.
- Digital consultant approval: Remote clearance in case of consultant unavailability.
- Prioritization at nursing stations: Discharge-related tasks get precedence in non-emergency times.
- EMR integration: Long-term transition to digital summaries and billing.

## **IP/OT/Cath Lab Pharmacy**

- Task delegation: Dedicated billing personnel.
- Staff sufficiency: Minimum two members for busy units like OT/CATH lab.
- Same-day OT billing: Materials billed on surgery day.
- Vendor coordination: Immediate submission of outsourced item invoices.
- Central communication: Discharge coordination via WhatsApp or phone group.
- Nursing support: Material catalog shared with nursing stations.
- Barcode system: For consumption tracking and billing accuracy.

## **Billing Department**

- Discipline enforcement: Strict SOPs for absenteeism, negligence or unprofessional behaviour
- Sufficient billers: Two active billers during peak hours.
- Advance file auditing: Pre-submission of discharge files.
- Task division: Segregation of roles—blood bank, insurance, credit letter management.
- Auditing separation: Audit team functions independently from billing.
- Auto-billing & EMR: Tech-driven efficiency and error reduction.

## **Doctors and Nursing**

- Clear documentation: Legibility, dating, and sign-offs made mandatory.
- Written orders: Replace verbal communication with proper records.
- Nursing handovers: Next-day discharges reviewed during every shift change.

## **Patient Relations Executives (PREs)**

- Complete case awareness: Know payment method, case details, and package.
- Family counselling & coordination: Discharge planning communicated to families.
- Technology-enabled tracking: Discharge dashboards for real-time coordination and updates.

# CONCLUSION

This study analyzed the discharge turnaround time (TAT) at CARE Hospitals, Ramnagar, focusing on process inefficiencies and delays across departments for cash, PSU, and insurance patients. It aimed to identify bottlenecks and recommend sustainable improvements to enhance bed turnover, operational efficiency, and patient satisfaction.

## Key Findings

- Unstandardized consultant rounds delayed discharge initiation, affecting downstream tasks.
- Pharmacy and billing delays due to procedural gaps, poor planning, and limited manpower.
- Insurance patients faced the longest delays due to multi-step TPA approval processes.
- Discharge summaries were often delayed, relying heavily on consultant availability.
- Lack of real-time coordination among consultants, nurses, PREs, pharmacy, and billing teams.
- External vendor issues (e.g., late invoice submission) added last-minute delays.

## Conclusion & Recommendations

- Discharge delays are systemic, not isolated; require cross-functional reform.
- Implement a standardized, proactive, tech-enabled discharge ecosystem.
- Ensure predictive planning, shared accountability, and seamless communication across departments.

# REFERENCES

- 1.Ortiga B, Salazar A, Jovell A, Escarrabill J, Marca G, Corbella X. Standardizing admission and discharge processes to improve patient flow: a cross sectional study. BMC health services research. 2012 Dec;12:1-6. <https://doi.org/10.1186/1472-6963-12-180>
- 2.Kumar J. A study of the causes of delay in patient discharge process in a large multi-speciality hospital with recommendations to improve the turn around time. QAI Journal for Healthcare Quality and Patient Safety. 2022 Jan 1;3(1):13-20. DOI: 10.4103/QAIJ.QAIJ\_14\_22
- 3.Kripalani S, Jackson AT, Schnipper JL, Coleman EA. Promoting effective transitions of care at hospital discharge: a review of key issues for hospitalists. Journal of hospital medicine: an official publication of the Society of Hospital Medicine. 2007 Sep;2(5):314-23.doi: 10.1002/jhm.228.
- 4.Falvo T, Grove L, Stachura R, Vega D, Stike R, Schlenker M, Zirkin W. The opportunity loss of boarding admitted patients in the emergency department. Academic Emergency Medicine. 2007 Apr;14(4):332-7. doi: 10.1197/j.aem.2006.11.011.
- 5.Hendy P, Patel JH, Kordbacheh T, Laskar N, Harbord M. In-depth analysis of delays to patient discharge: a metropolitan teaching hospital experience. Clinical Medicine. 2012 Aug 1;12(4):320-3. <https://doi.org/10.7861/clinmedicine.12-4-320>.
- 6.Sharma MR, Kapadia N, Raval MS, Shah MS, Patel MA. A STUDY OF DISCHARGE PROCESS WITH STRATEGY TO REDUCE THE TURN AROUND TIME IN TERTIARY CARE HOSPITAL.DOI: 10.20959/wjpr202212-254
- 7.Hisham S, Rasheed SA, Dsouza B. Application of predictive modelling to improve the discharge process in hospitals. Healthcare informatics research. 2020 Jul 31;26(3):166-74. PMID: 32819034; PMCID: PMC7438692.
- 8.Adams R, Warner P, Hubbard B, Goulding T. Decreasing turnaround time between general surgery cases: a six sigma initiative. JONA: The Journal of Nursing Administration. 2004 Mar 1;34(3):140-8
- 9.Ajami S, Ketabi S. An analysis of the average waiting time during the patient discharge process at Kashani Hospital in Esfahan, Iran: a case study. Health Information Management Journal. 2007 Jul;36(2):37-42.
10. Reddy S, Mary I. Aarogyasri scheme in Andhra Pradesh, India: some critical reflections. Social change. 2013 Jun;43(2):245-61. <https://doi.org/10.1177/0049085713492275>
11. Aarogyasri Health Care Trust (2011a). Rajiv Aarogyasri Scheme achieves following landmarks[http://www.aarogyasri.org/ASRI/EXT\\_IMAGES/documents/Note\\_LandMark.pdf](http://www.aarogyasri.org/ASRI/EXT_IMAGES/documents/Note_LandMark.pdf)
12. Counsellise. (n.d.). Arogya Sahayatha, Prohibition & Excise Department, Telangana State Employees Health and Medical Welfare Trust. Retrieved April 25, 2025
13. Telangana State Police Welfare Society. (n.d.). Welfare Schemes. Retrieved April 25, 202
14. Pradhan I, Puan K, Das S, Pradhan R, Mohapatro P, Samantaray KK. Health Care Satisfaction Among the Hospitalized Patients Coming Under BIJU SWASTHYA KALYAN YOJANA (BSKY) and the Non-BSKY Scheme in Multispecialty Private Hospitals, Odisha. Tuijin Jishu/Journal of Propulsion Technology.;45(2):2024.
15. Sahoo PM, Rout HS, Jakovljevic M. Contemporary universal health coverage in India—the case of federal state of Odisha (Orissa). Risk management and healthcare policy. 2023 Dec 31:1131-43.
16. Sarwal R. Reforming central government health scheme into a ‘universal health coverage’ model. Natl Med J India. 2015 Jan 1;28(1):29-37.
17. Karan A, Selvaraj S, Mahal A. Moving to universal coverage? Trends in the burden of out-of-pocket payments for health care across social groups in India, 1999–2000 to 2011–12. PloS one. 2014 Aug 15;9(8):e105162
18. Kumar R, Ranganarajan K, Ranganathan N. Health Insurance in India—A Study of Provider’s perceptions in Delhi & the NCR. Journal of Health Management. 2011 Sep;13(3):259-77
19. Gulati S, Grover A. Digital Marketing Strategies: Insurance companies in India. Empirical Economics Letters, 21 (Special Issue 1): (October 2022) ISSN 1681 899



# THANK YOU



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