

## Sprint Delivery Plan III

|                     |   |
|---------------------|---|
| <b>Date</b>         | <b>11 November 2022</b>                         |
| <b>Team ID</b>      | <b>PNT2022TMID30840</b>                         |
| <b>Project Name</b> | <b>Analytics for Hospitals Health Care Data</b> |

### Cognos Analytics Story:

- A Story contains a set of scenes that are displayed in sequence.
- Stories are similar to dashboards because they also use to share your insights
- Stories differ from dashboards because they provide an over-time narrative and can convey a conclusion or Recommendation.

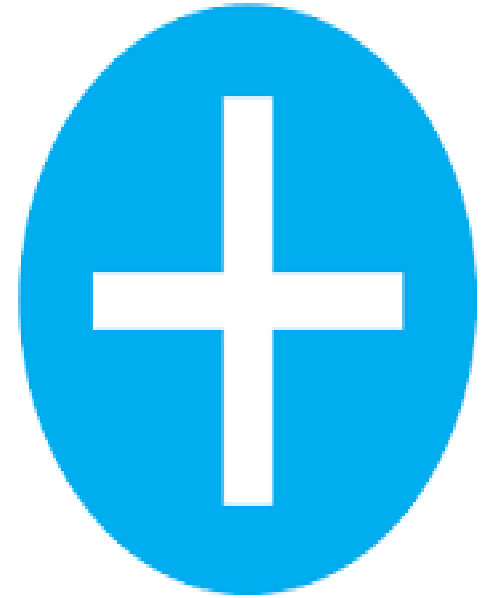
### Story Card of Analytics of Hospitals Health Care Dataset Using Cognos Analysis: USN:6:

As a Data analyst, I will create different types of models in explored data to identify suitable

# **ANALYTICS FOR HOSPITAL HEALTH CARE DATA**

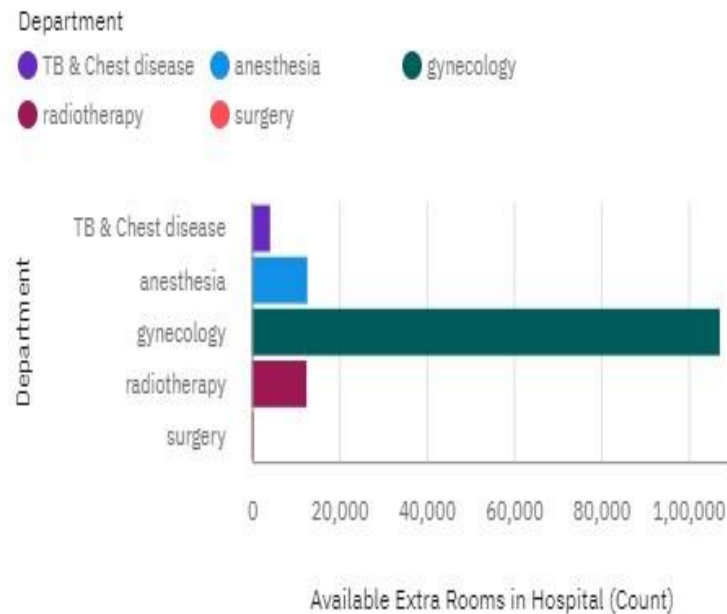
**TEAM ID : PNT2022TMID30840**

**R VISHNU PRASATH  
M PREMKUMAR  
P THAMIZHARASU  
M VISWANATH**



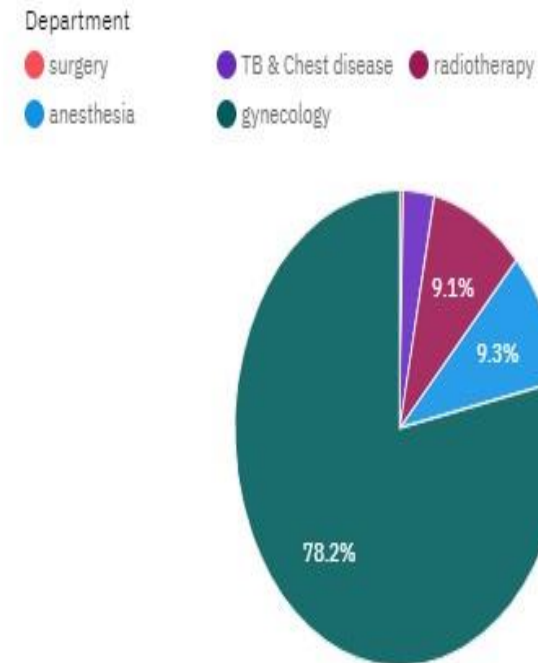
## Test\_data.csv Visualizations

Available Extra Rooms in Hospital by Department colored by Department



- The most common value of Department is gynecology, occurring over 107 thousand times, which is 78.2 % of the total.

Available Extra Rooms in Hospital by Department

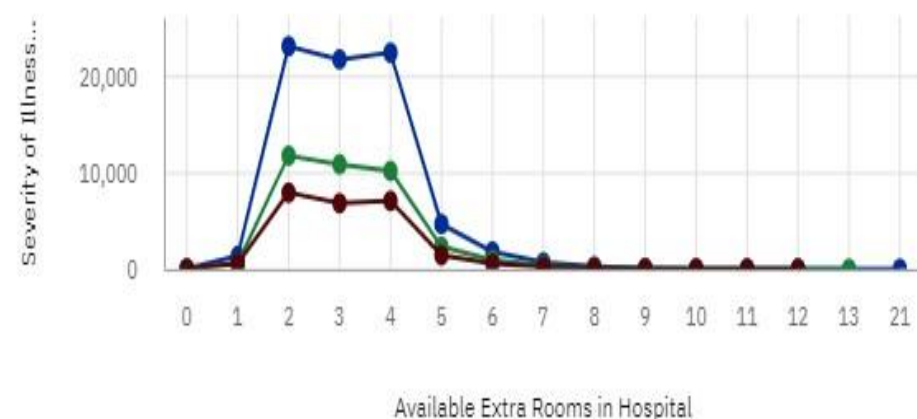


- ◆ The total number of results for Available Extra Rooms in Hospital, across all departments, is over 137 thousand.

## Severity of Illness by Available Extra Rooms in Hospital colored by Severity of Illness

Severity of Illness

● Extreme ● Minor ● Moderate



## Severity of Illness by Bed Grade colored by Bed Grade

Bed Grade (Sum)



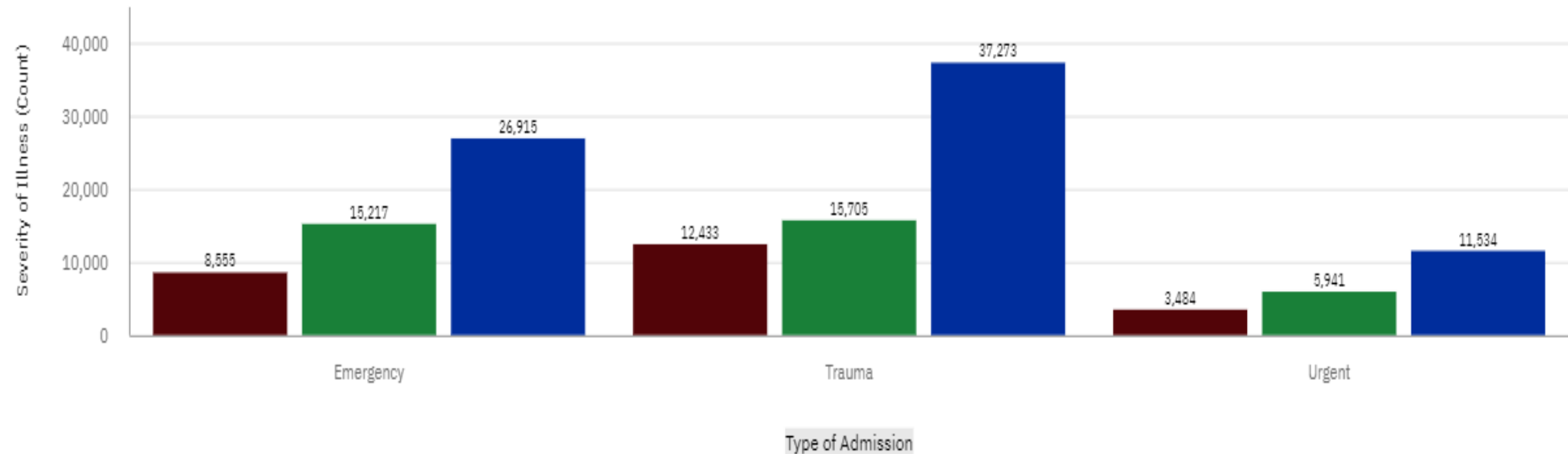
♦ The most common values of Available Extra Rooms in Hospital are 2 (31.1 %), 4 (28.8 %), and 3 (28.6 %) together occurring over 121 thousand times, which is 88.5 % of the total.

♦ The most common values of Bed Grade are 2 (38.5 %) and 3 (35.3 %), together occurring over 101 thousand times, which is 73.8 % of the total

## Severity of Illness by Type of Admission colored by Severity of Illness

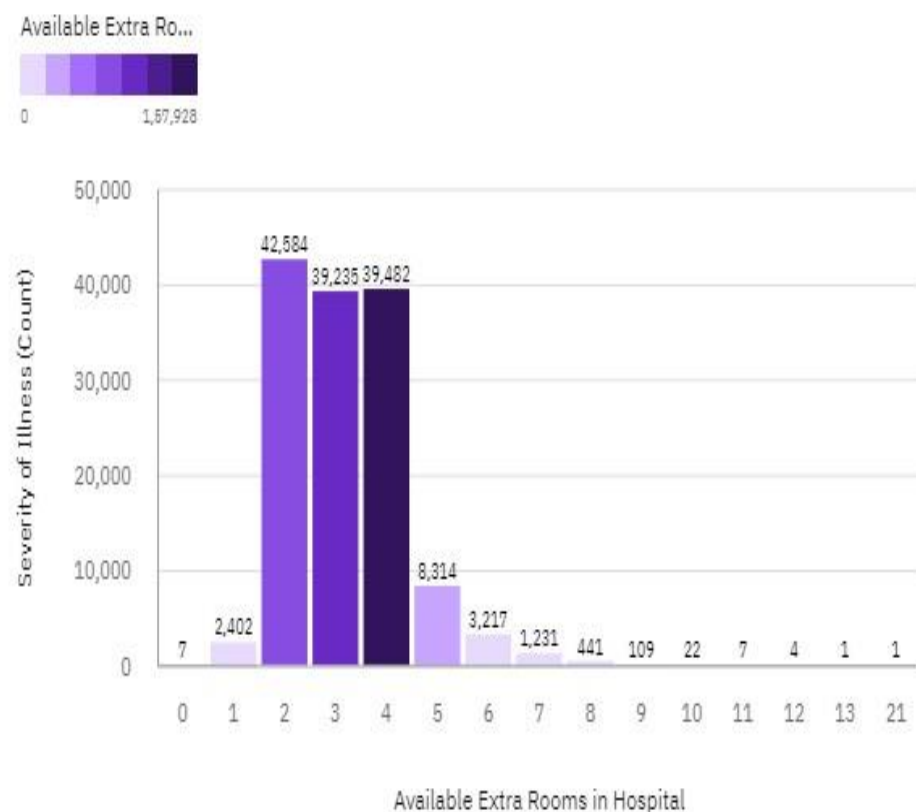
Severity of Illness

Extreme Minor Moderate

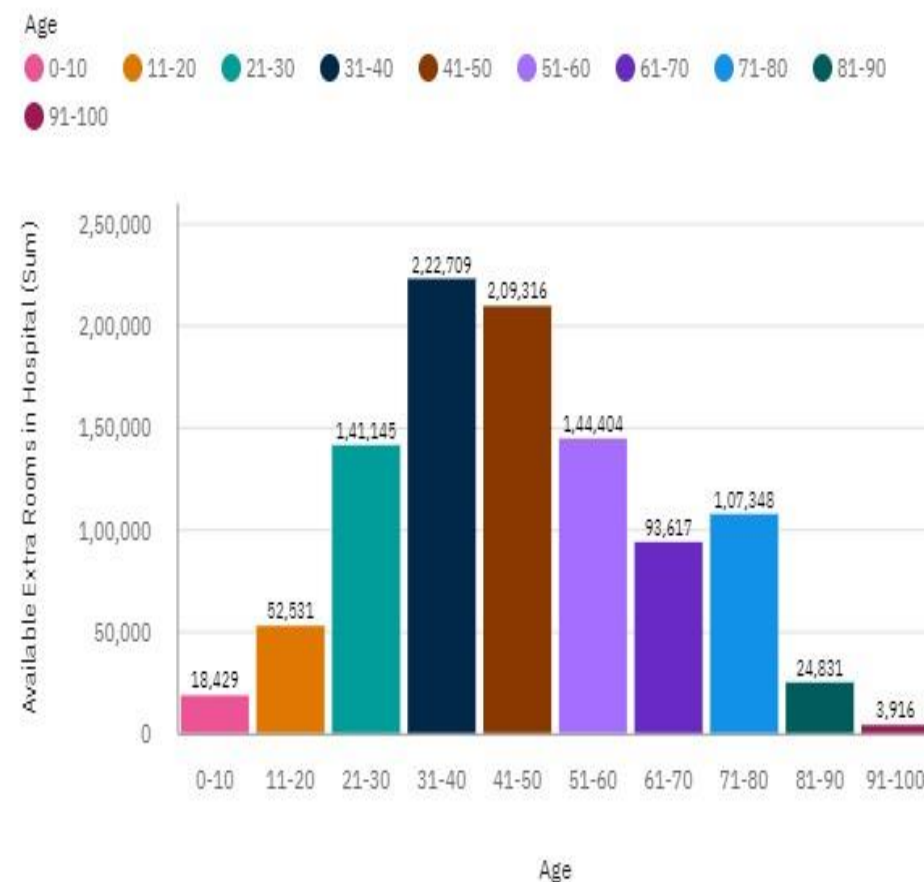


- ◆ The most common value of Severity of Illness is Moderate, occurring nearly 76 thousand times, which is 55.2 % of the total.
- ◆ The total number of results for Severity of Illness, across all type of admissions, is over 137 thousand.

Severity of Illness by Available Extra Rooms in Hospital colored by Available Extra Rooms in Hospital



Available Extra Rooms in Hospital by Age colored by Age

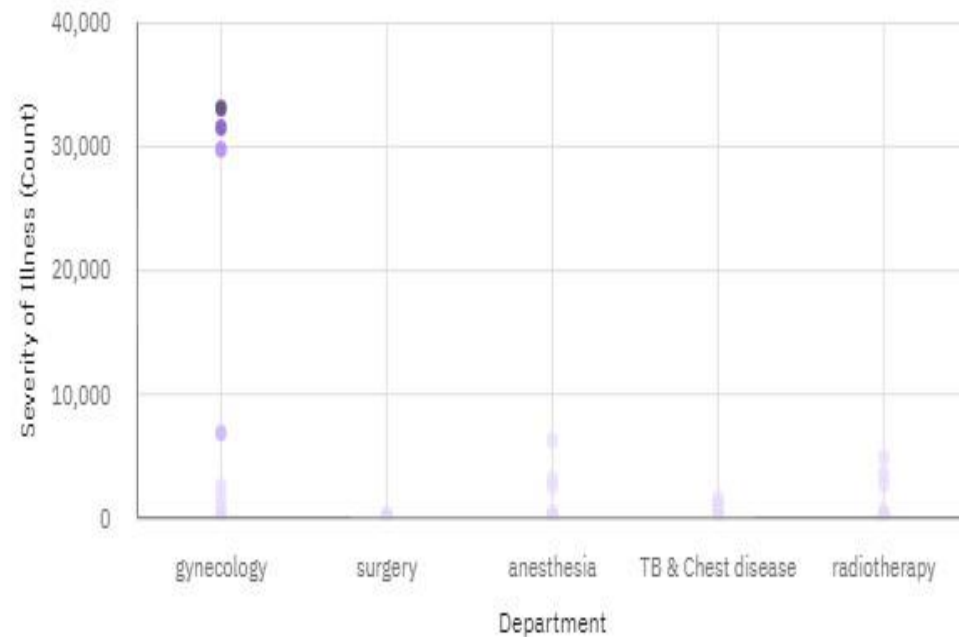
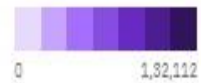


♦ The most common values of Available Extra Rooms in Hospital are 2 (31.1 %), 4 (28.8 %), and 3 (28.6 %), together occurring over 121 thousand times, which is 88.5 % of the total.

♦ Available Extra Rooms in Hospital is most unusual when the combinations of Age and Age are 31-40 and 31-40, 41-50 and 41-50 and 91-100 and 91-100.

## Department by Severity of Illness with points for Available Extra Rooms in Hospital

Available Extra Ro...



◆ The most common value of Department is gynecology, occurring over 107 thousand times, which is 78.2 % of the total.

## case\_id for Department and City\_Code\_Patient

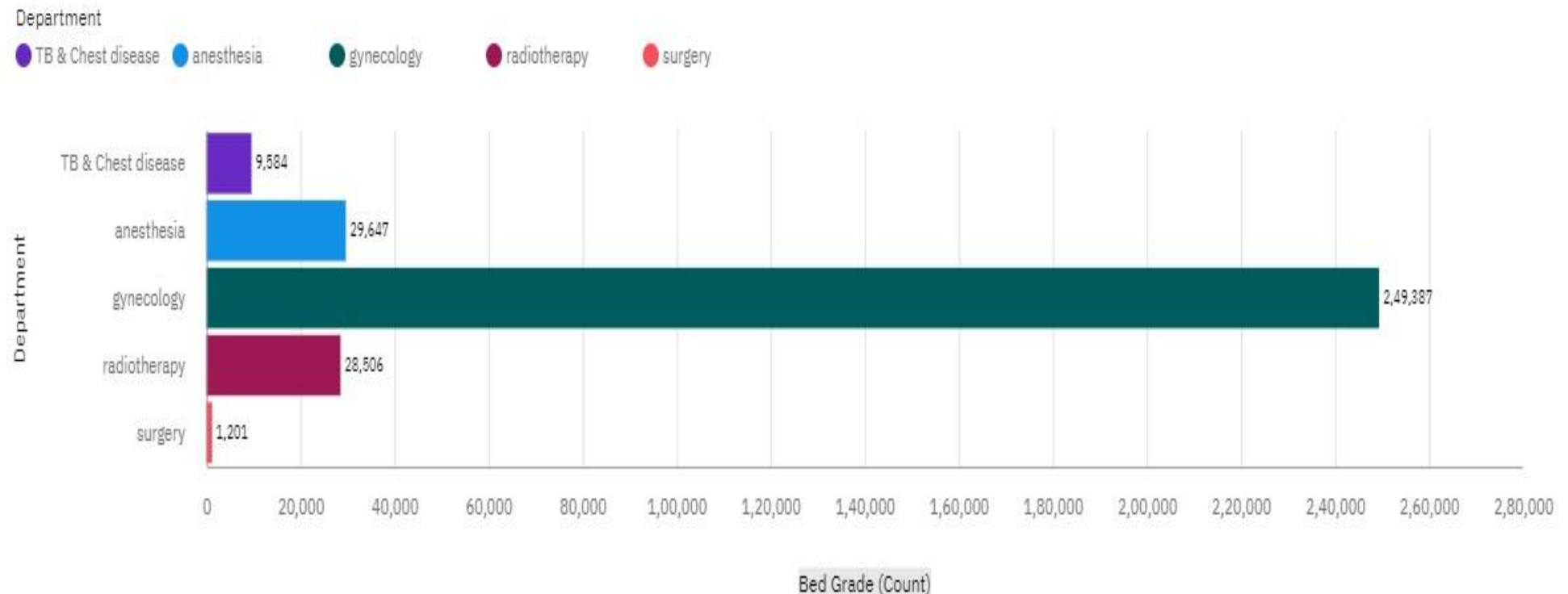
| case_id | Chest disease | anesthesia | gynecology | radiotherapy | surge |
|---------|---------------|------------|------------|--------------|-------|
| 1.0     | 353           | 1,238      | 8,876      | 878          |       |
| 2.0     | 513           | 1,683      | 13,501     | 1,096        |       |
| 3.0     | 72            | 243        | 1,207      | 105          |       |
| 4.0     | 197           | 775        | 7,086      | 731          |       |
| 5.0     | 281           | 777        | 6,925      | 885          |       |
| 6.0     | 73            | 219        | 2,203      | 222          |       |
| 7.0     | 425           | 972        | 7,690      | 1,031        |       |
| 8.0     | 1,568         | 4,527      | 40,898     | 5,595        |       |
| 9.0     | 156           | 398        | 3,870      | 460          |       |
| 10.0    | 75            | 349        | 2,946      | 238          |       |
| 11.0    |               |            |            |              |       |

◆ The most common values of City\_Code\_Patient are 23.0 (3.2 %), 20.0 (3.2 %), 16.0 (3.2 %), 15.0 (3.2 %), and 14.0 (3.2 %), together occurring 25 times, which is 16.2 % of the total.



## Train\_data.csv Visualizations

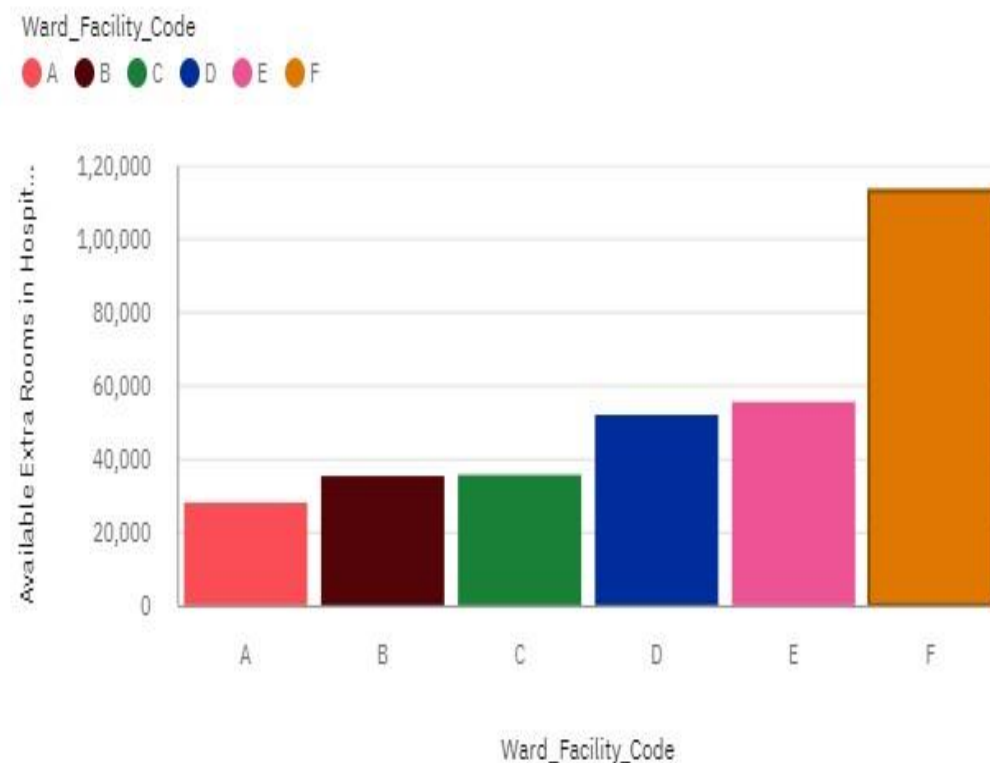
Bed Grade by Department colored by Department



- ◆ The total number of results for Bed Grade, across all departments, is over 318 thousand.
- ◆ The most common value of Department is gynecology, occurring over 249 thousand times, which is 78.3 % of the total

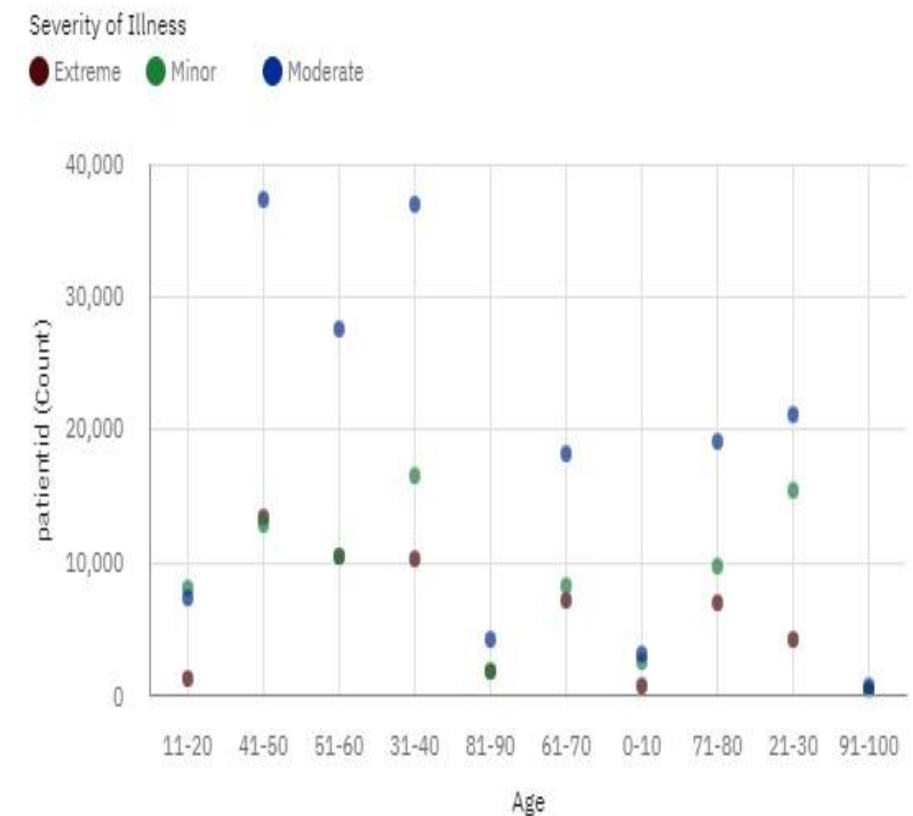


Available Extra Rooms in Hospital by Ward\_Facility\_Code colored by Ward\_Facility\_Code



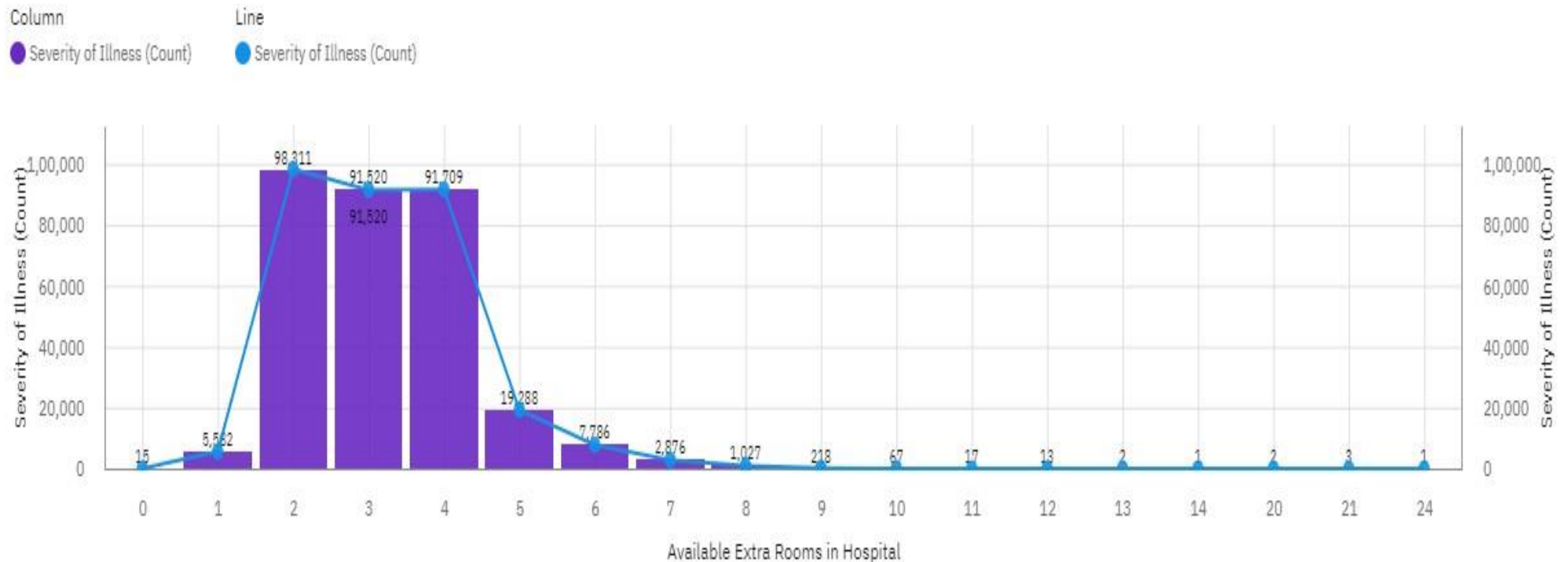
◆ The most common value of Ward\_Facility\_Code is F, occurring nearly 113 thousand times, which is 35.4 % of the total.

Age by patientid with points for Severity of Illness



◆ The most common values of Age are 41-50 (20 %) and 31-40 (20 %), together occurring over 127 thousand times, which is 40 % of the total.

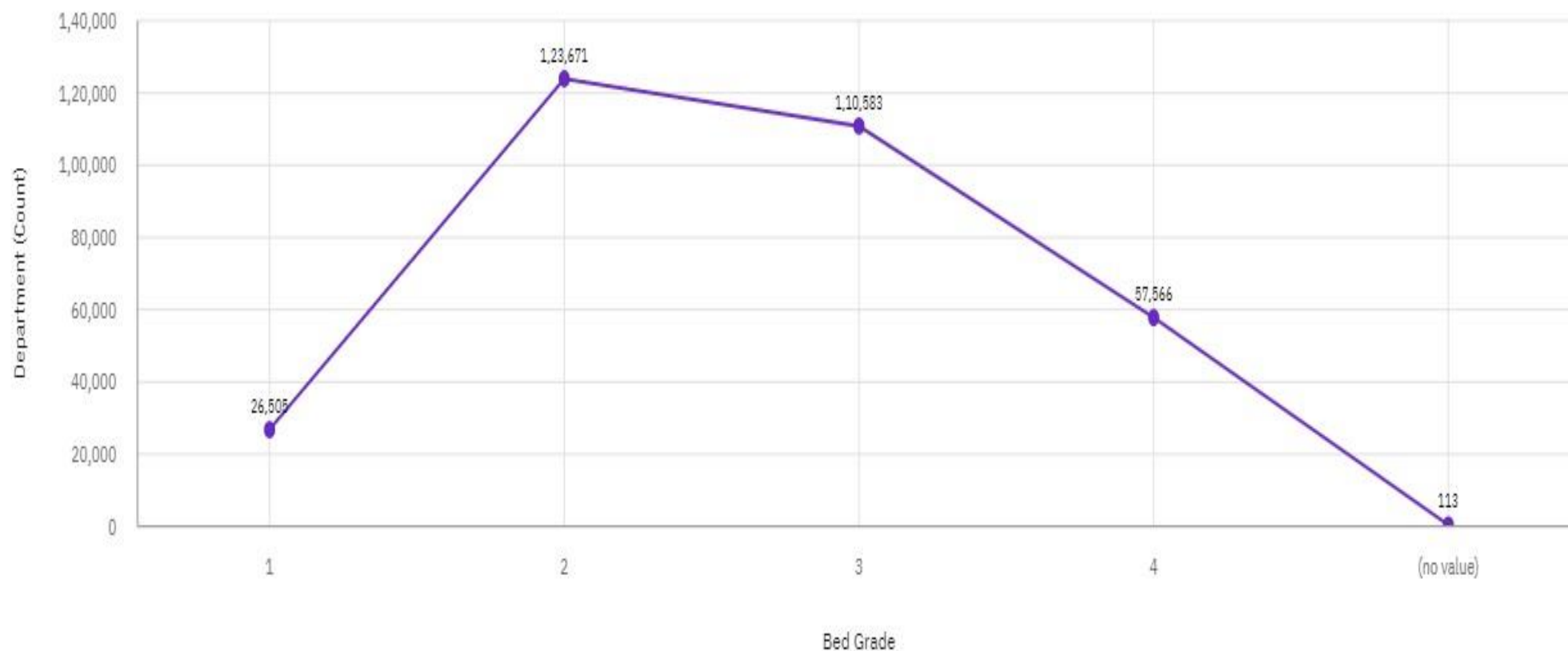
## Severity of Illness and Severity of Illness by Available Extra Rooms in Hospital



◆ The total number of results for Severity of Illness, across all available extra rooms in hospitals, is over 318 thousand.

◆ The most common values of Available Extra Rooms in Hospital are 2 (30.9 %), 4 (28.8 %), and 3 (28.7 %), together occurring nearly 282 thousand times, which is 88.4 % of the total.

## Department by Bed Grade



- ◆ The most common values of Bed Grade are 2 (38.8 %) and 3 (34.7 %), together occurring over 234 thousand times, which is 73.6 % of the total.
- ◆ The total number of results for Department, across all bed grades, is over 318 thousand.