Case Study Competition – Final Round

Track	*Data Visualization*
College/University	*BANARAS HINDU UNIVERSITY*
Software/tool used	*PYTHON/POWERBI/EXCEL*

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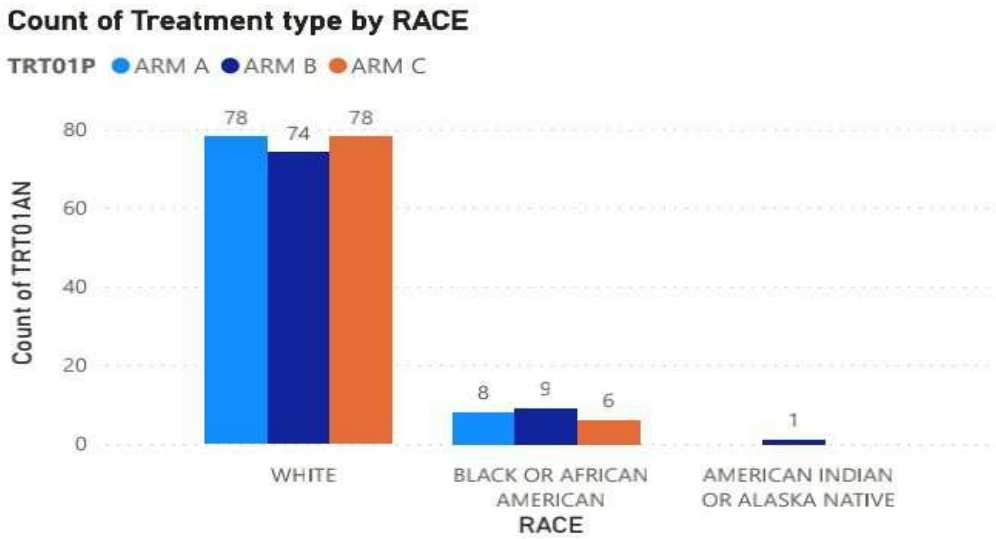
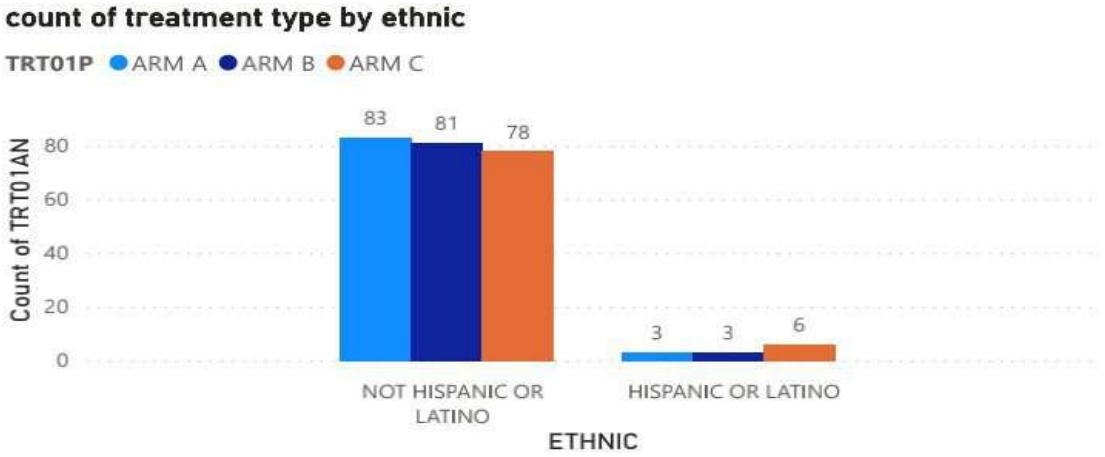
- ***GUIDED BY***

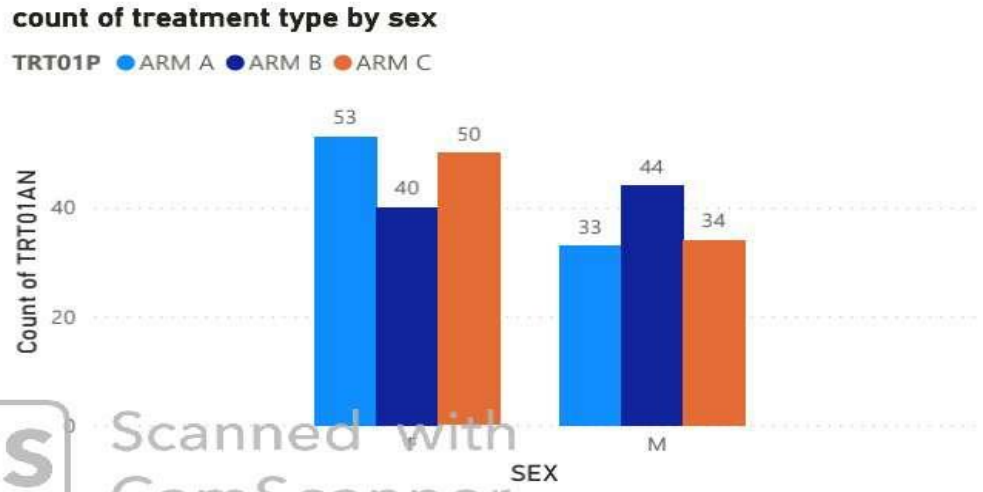
Shiva Prasad

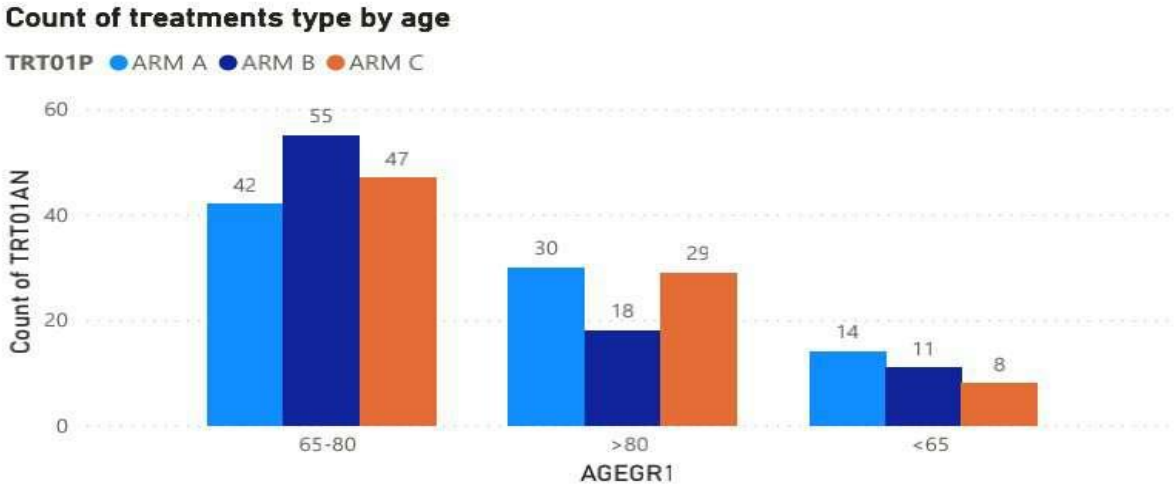
Jacob Mathew

Exploring Demographic characteristics by Treatments









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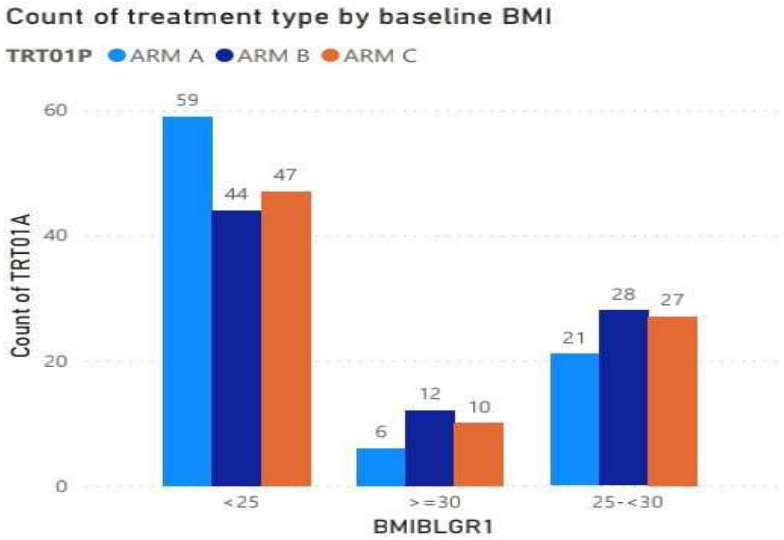
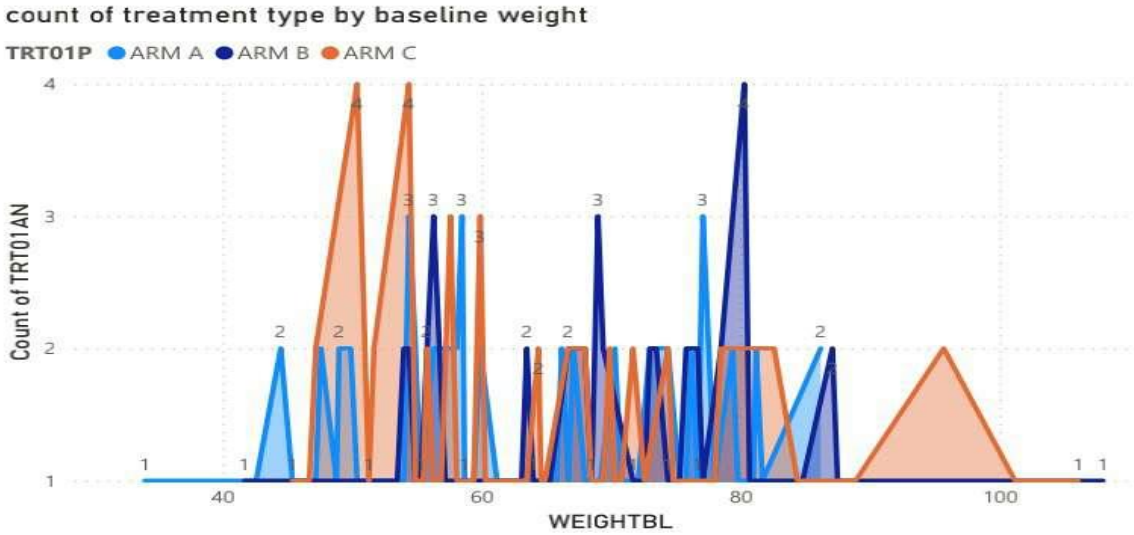
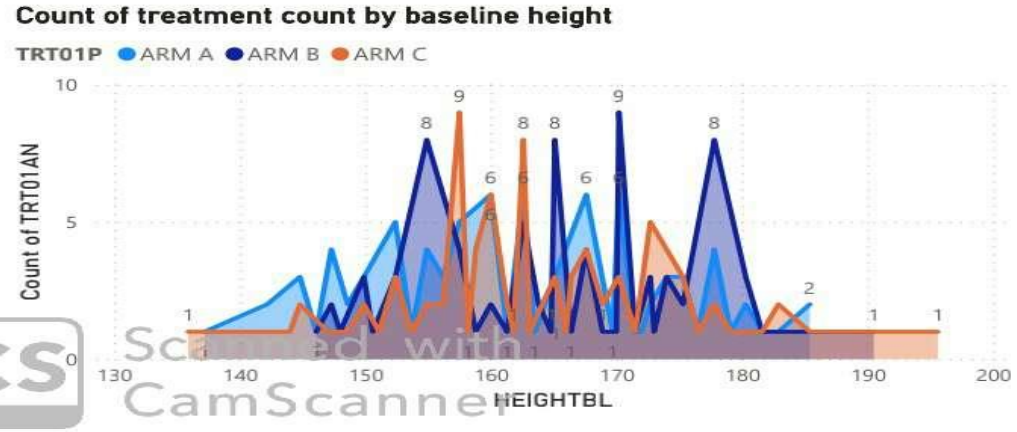
Exploring Baseline characteristics by Treatments







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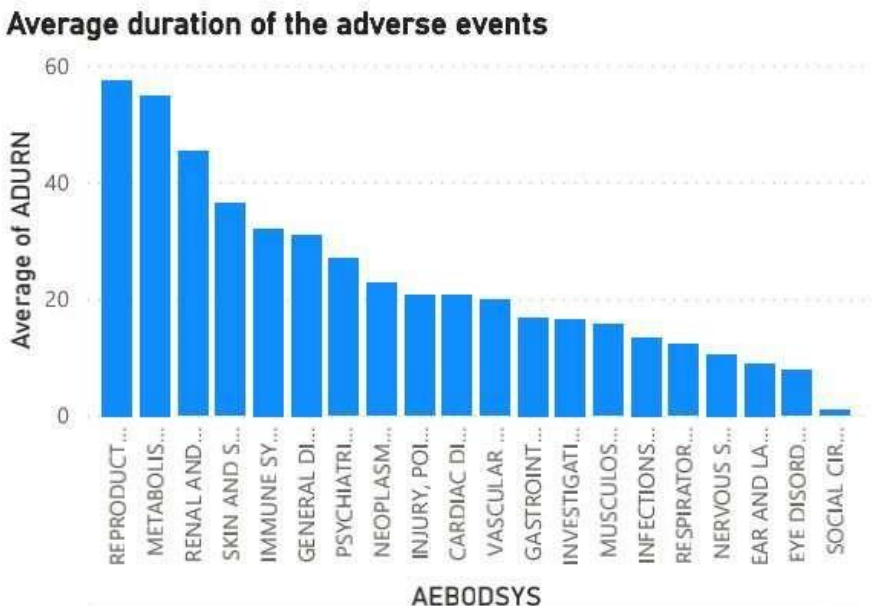
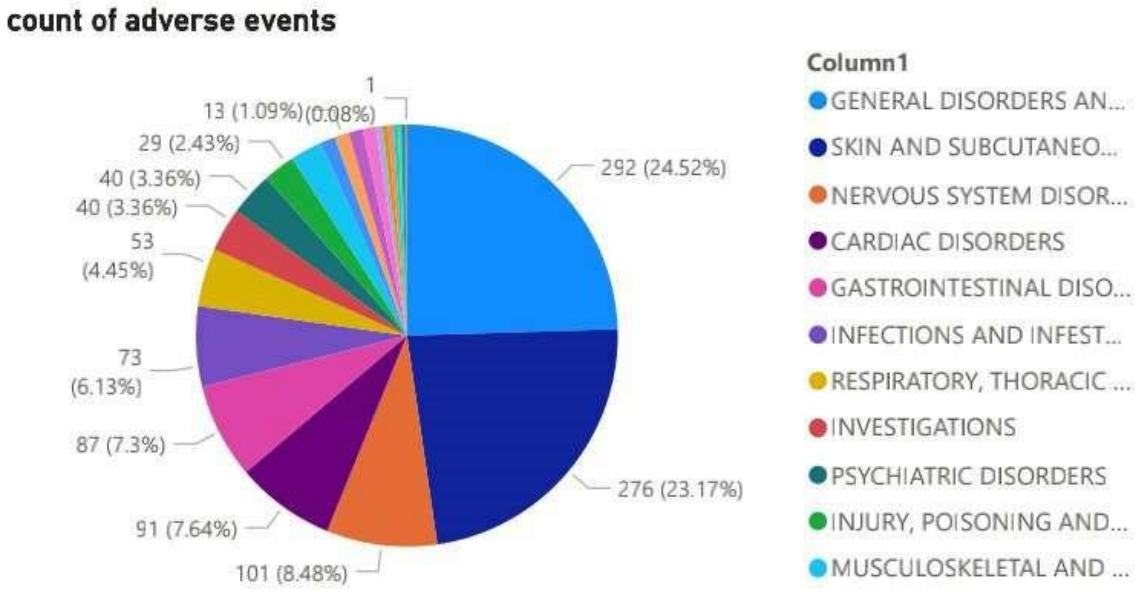
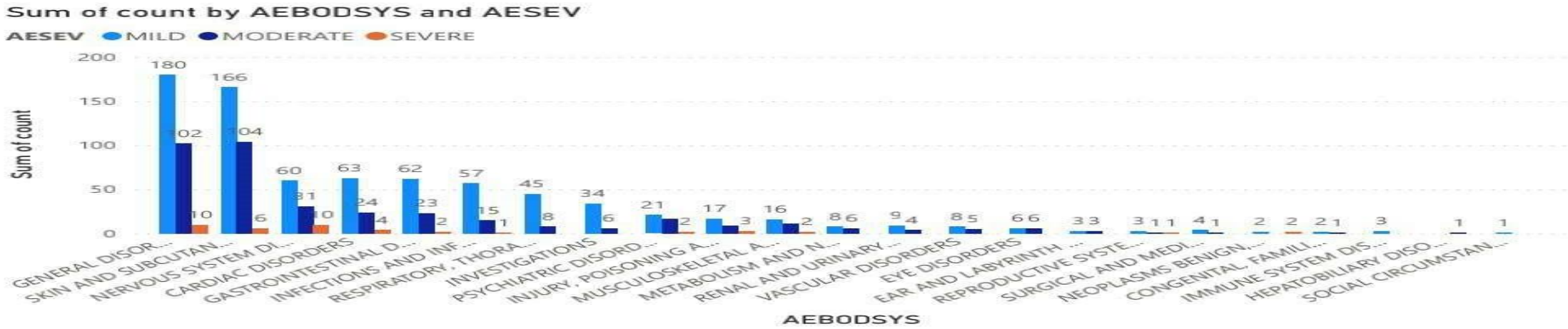
Overview of Treatment emergent Adverse Events



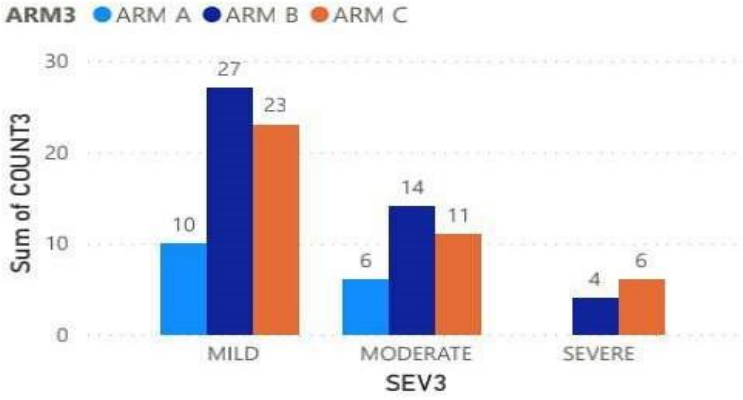




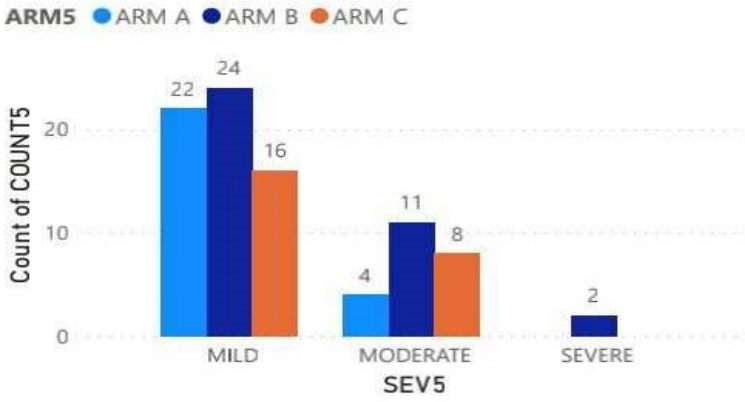
AE during on _ therapy by intensity

GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS

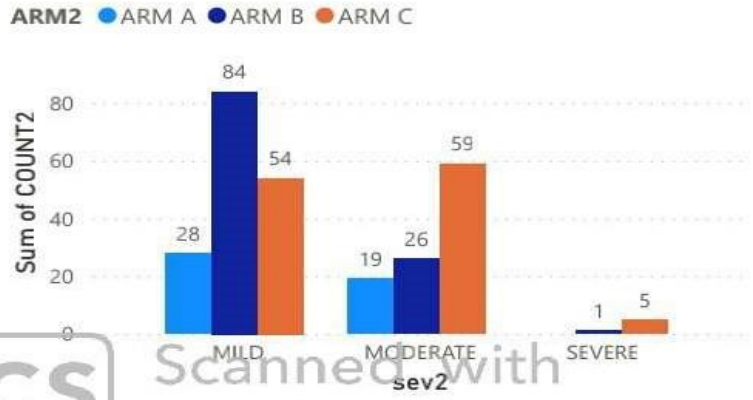
NERVOUS SYSTEM DISORDERS



GASTROINTESTINAL DISORDERS

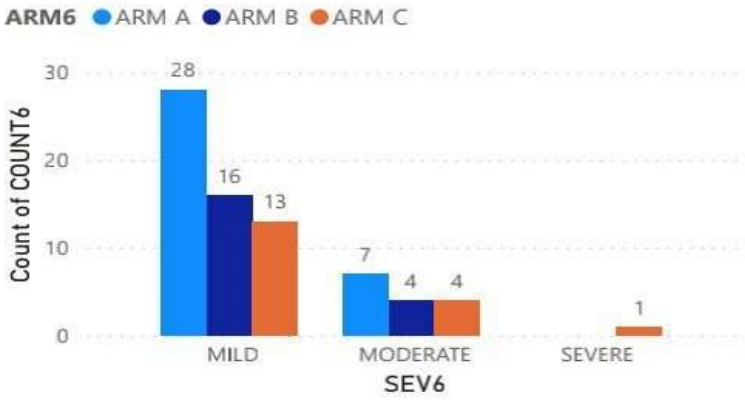


SKIN AND SUBCUTANEOUS TISSUE DISORDERS



CARDIAC DISORDERS

INFECTIONS AND INFESTATIONS



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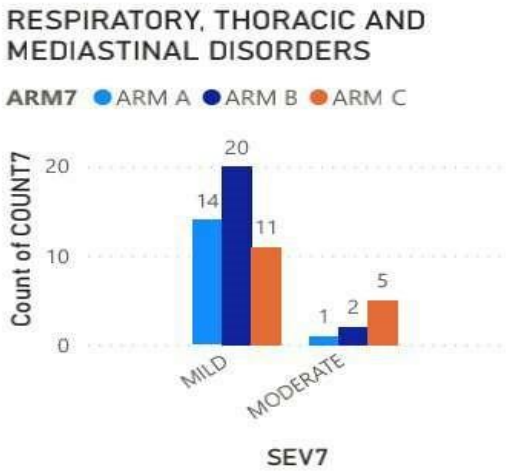
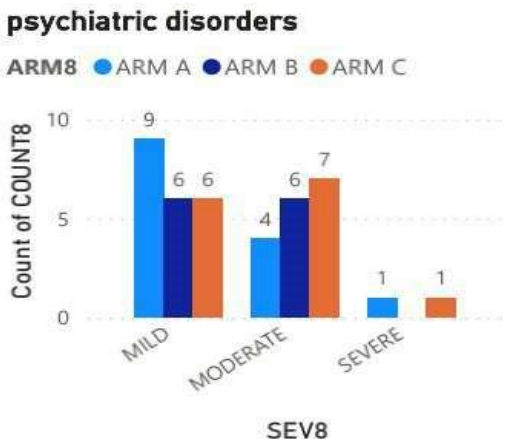
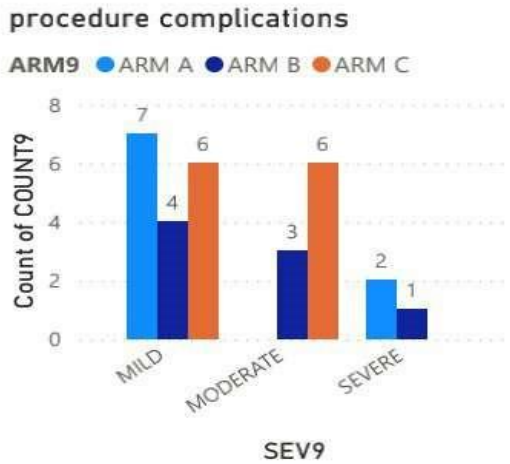
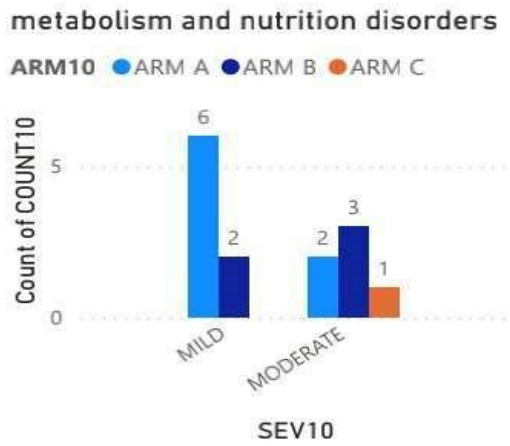
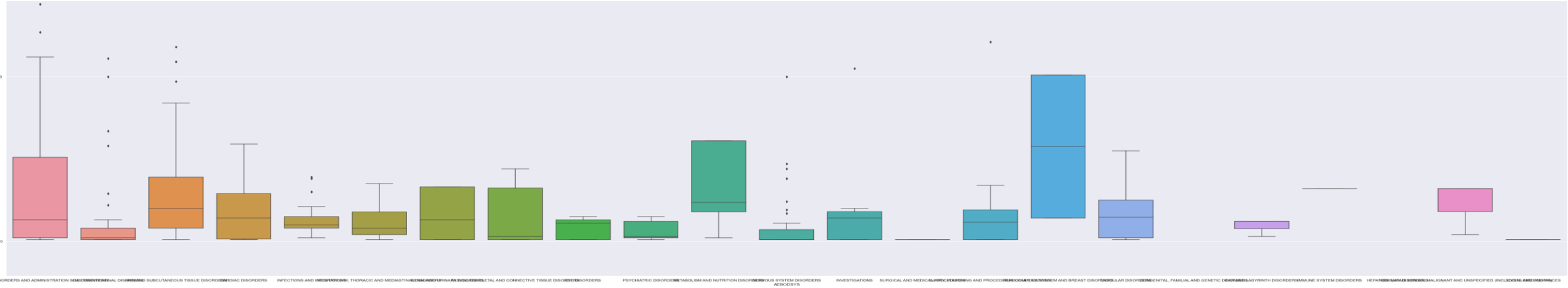

RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS
ARM7 ARM A ARM B ARM C
Count of COUNT7
20
10
0
14
20
11
1
2
5
MILD
MODERATE
SEV7


psychiatric disorders
ARM8 ARM A ARM B ARM C
Count of COUNT8
10
5
0
9
6
6
4
6
7
1
1
MILD
MODERATE
SEVERE
SEV8

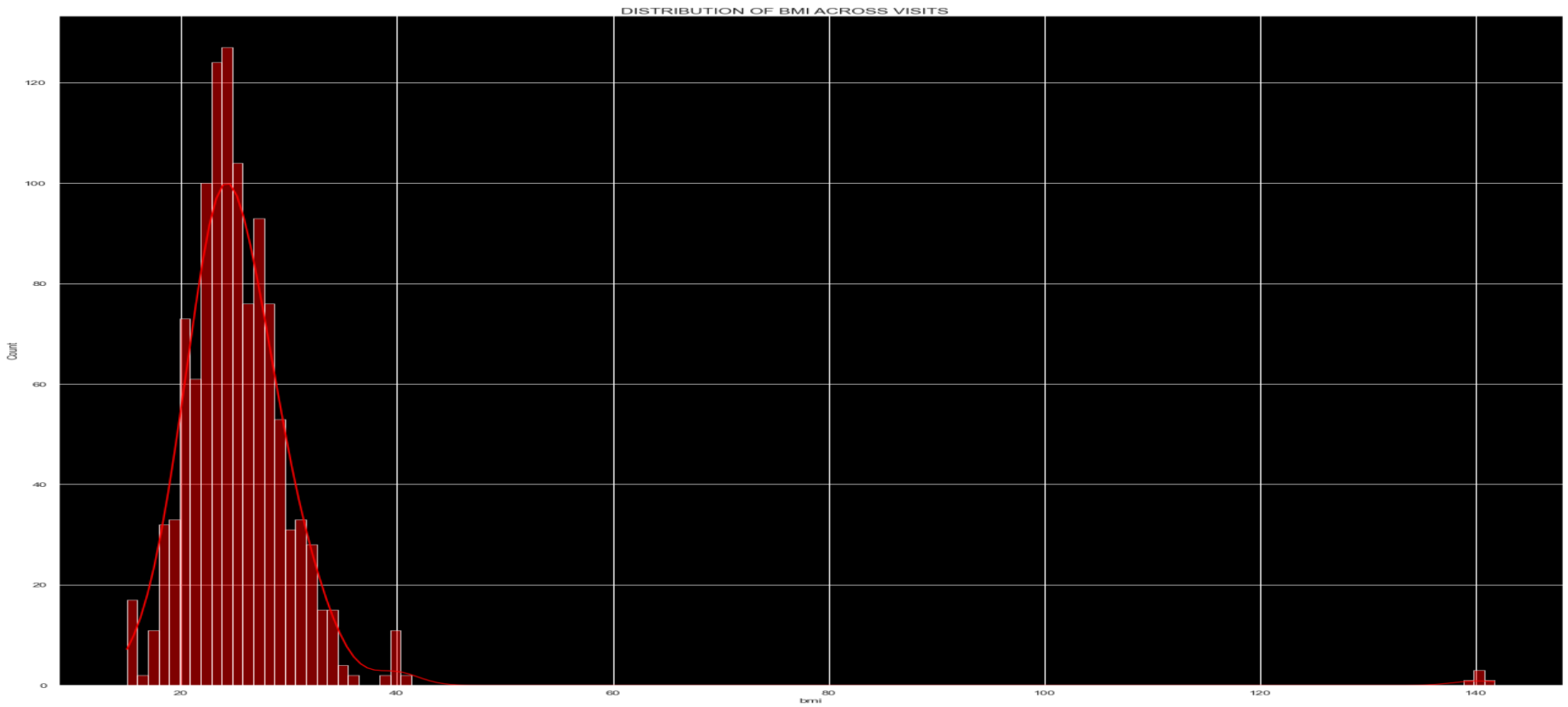

procedure complications
ARM9 ARM A ARM B ARM C
Count of COUNT9
8
6
4
2
0
7
4
6
3
6
2
1
MILD
MODERATE
SEVERE
SEV9

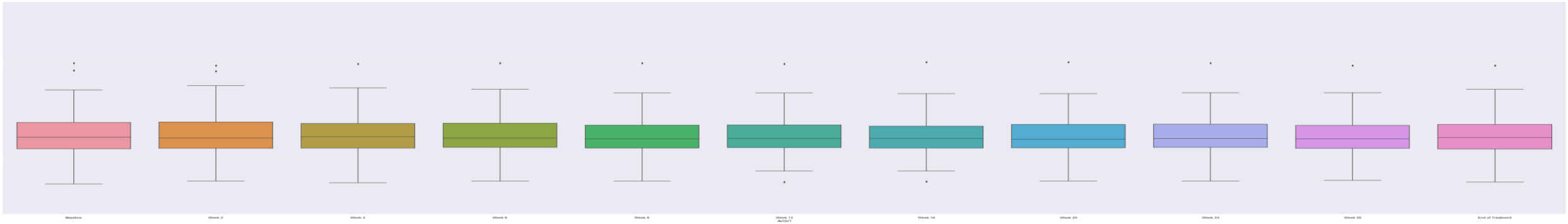

metabolism and nutrition disorders
ARM10 ARM A ARM B ARM C
Count of COUNT10
5
0
6
2
2
3
1
MILD
MODERATE
SEV10

Distribution of days on study to adverse events

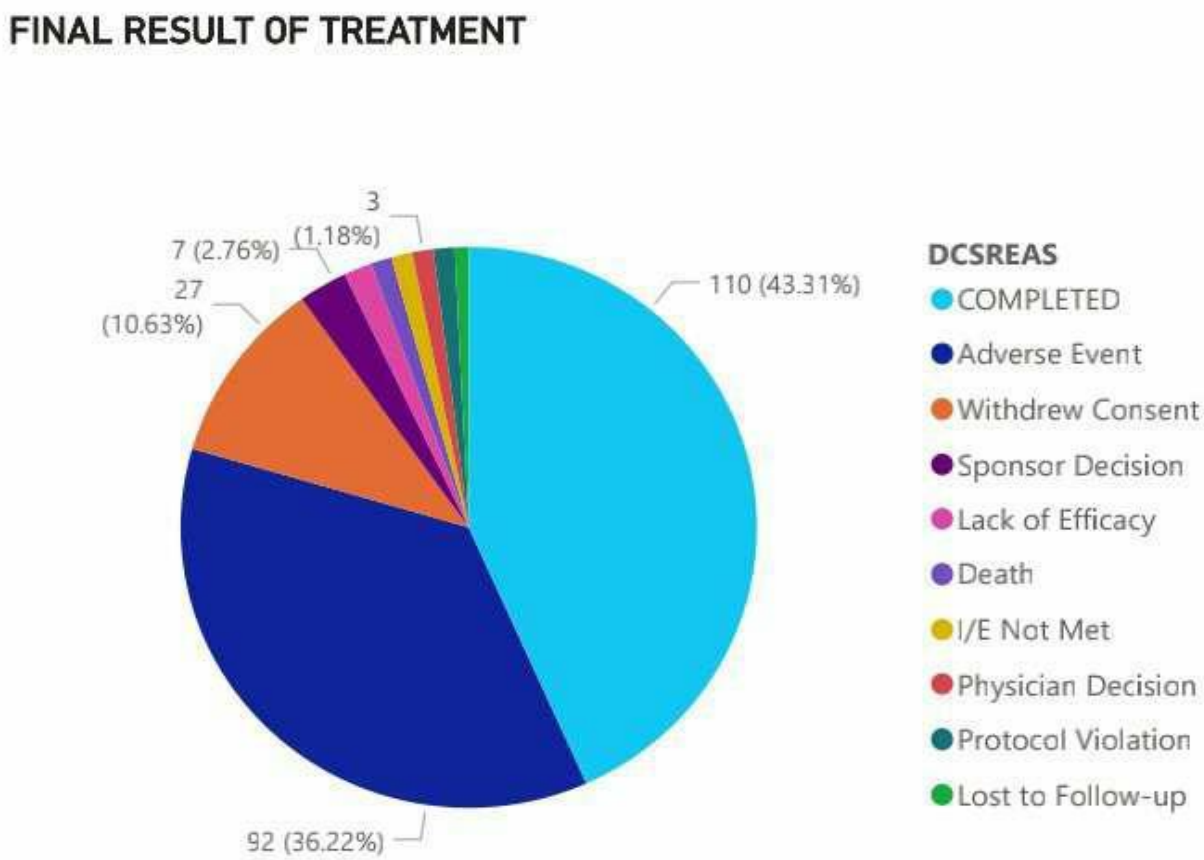


Distribution of BMI across visits

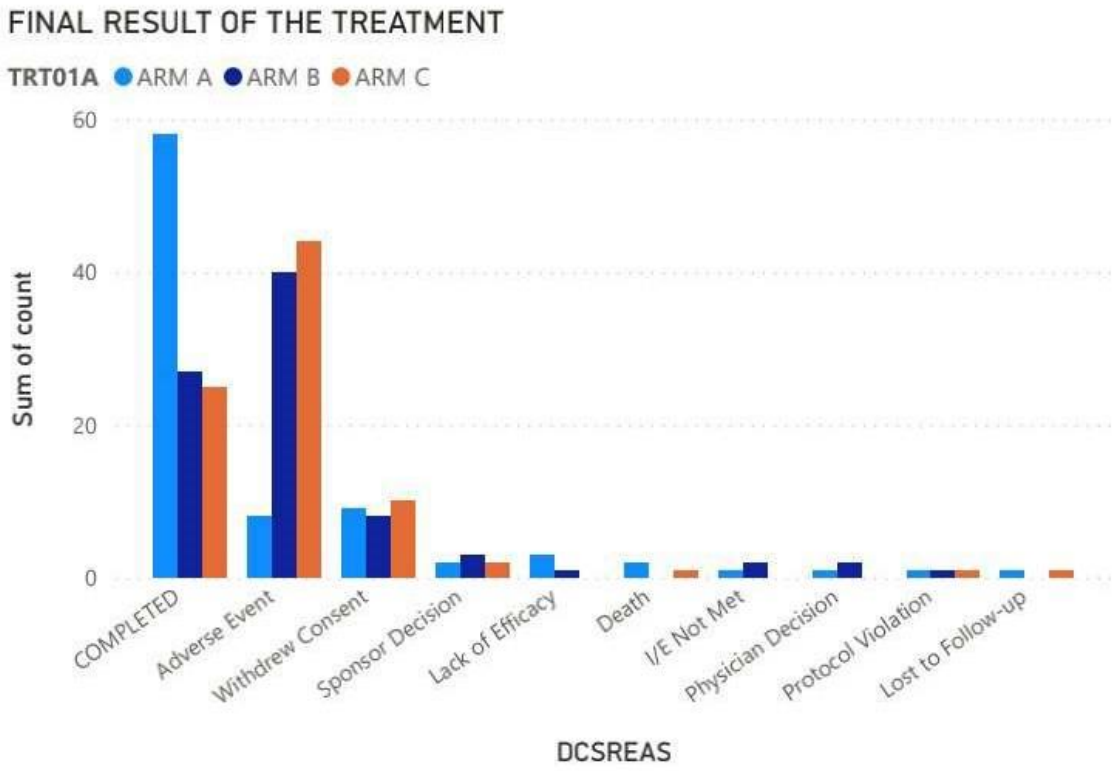


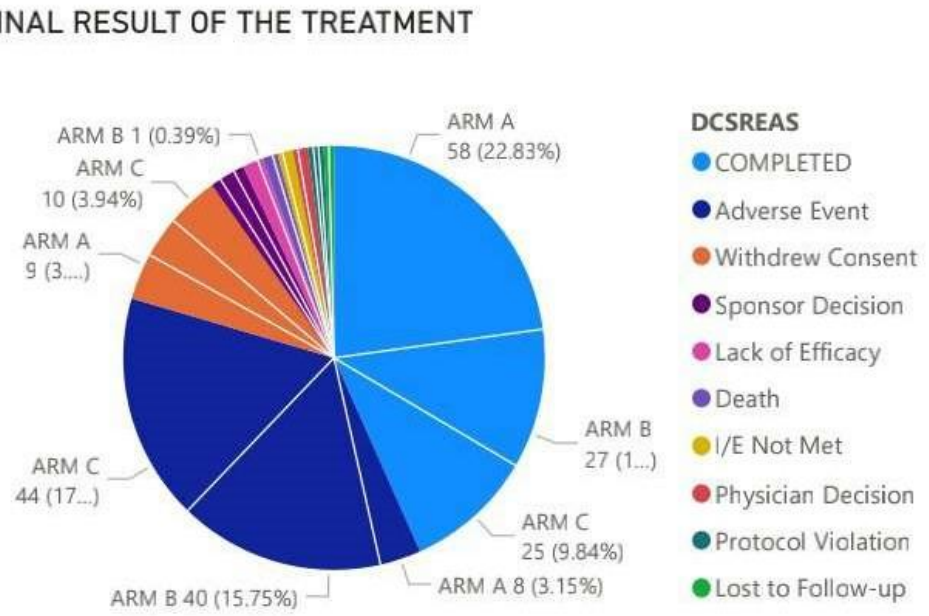


Final result of the treatment



Final result of the treatment





CONCLUSION:

- We have used python and power BI tools to manipulate and explore the data.
- We used plots like barplot, histplot, distplot, BOX-plot, pie chart and Area chart for visualizing the data.
- We found that distribution of BMI across visits follows normal distribution shows there is not much variance in BMI across visits.
- We observed 24 kinds of adverse events occurred during the treatment.
- General disorder adverse event has occurred most with 24.52% among all adverse events followed by skin disorder adverse event with 23%.
- Reproductive system and breast disorders has highest average duration.
- Found severity count for every adverse event.
- We finally observed that 43% of the subjects have completed the treatment

  and remaining percentage of subjects have discontinued because of various reasons
- Like adverse events, physician decescion, death etc.
- The majority of the subjects who received the treatment of ARMA completed the treatment.