

# Bariatric Run Notebook

## An analysis of the MBSA-QIP Dataset

Pranav Kumar Mishra

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The computer's name is pminformatics.rush.edu The current directory has been set to /home/pranav/work/pranavmishra90/courses/by-mishra/research-data-management

Caution: The run directory already exists for Run # 001 A figures directory is already present: /home/pranav/work/pranavmishra90/courses/by-mishra/research-data-management/data/analysis/bariatric/runs/run\_001/figures/ A tables directory is already present: /home/pranav/work/pranavmishra90/courses/by-mishra/research-data-management/data/analysis/bariatric/runs/run\_001/tables/ A notebook directory is already present: /home/pranav/work/pranavmishra90/courses/by-mishra/research-data-management/data/analysis/bariatric/runs/run\_001/notebooks/ A text directory is already present: /home/pranav/work/pranavmishra90/courses/by-mishra/research-data-management/data/analysis/bariatric/runs/run\_001/text/

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 'years': array([2018, 2019, 2020, 2021, 2022]),  
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data-management',  
'notebook_file': './code/jupyter/bariatric.ipynb',  
'image_filetypes_output': ['jpg'],  
'data_source_alpha': 0,  
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'errorbartype': ('ci', 95),  
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'table_filetypes_output': ['parquet', 'csv'],  
'save_tables': True}
```

## **Import Data**

### **Statistics for Main dataframe**

There are 1,021,936 cases with 245 variables (columns).

## **Data Processing**

### **Subset the data**

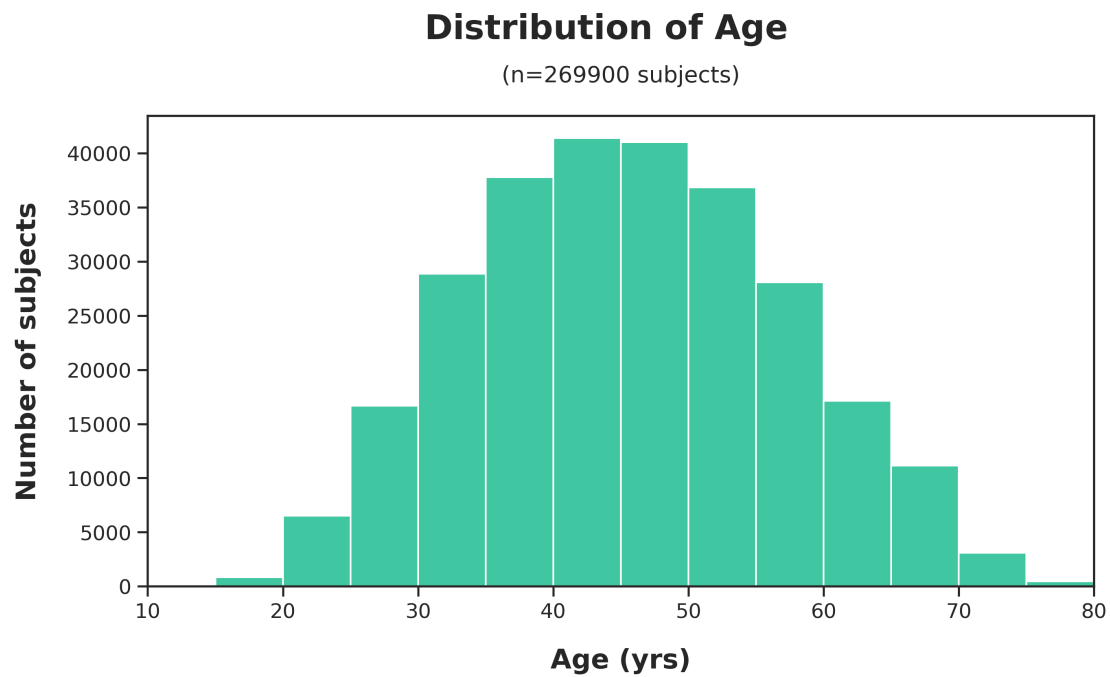
### **Filtering for CPT: ['43644']**

The total MBSA-QIP dataset `mbsa_main_df` has 1,021,936 cases.

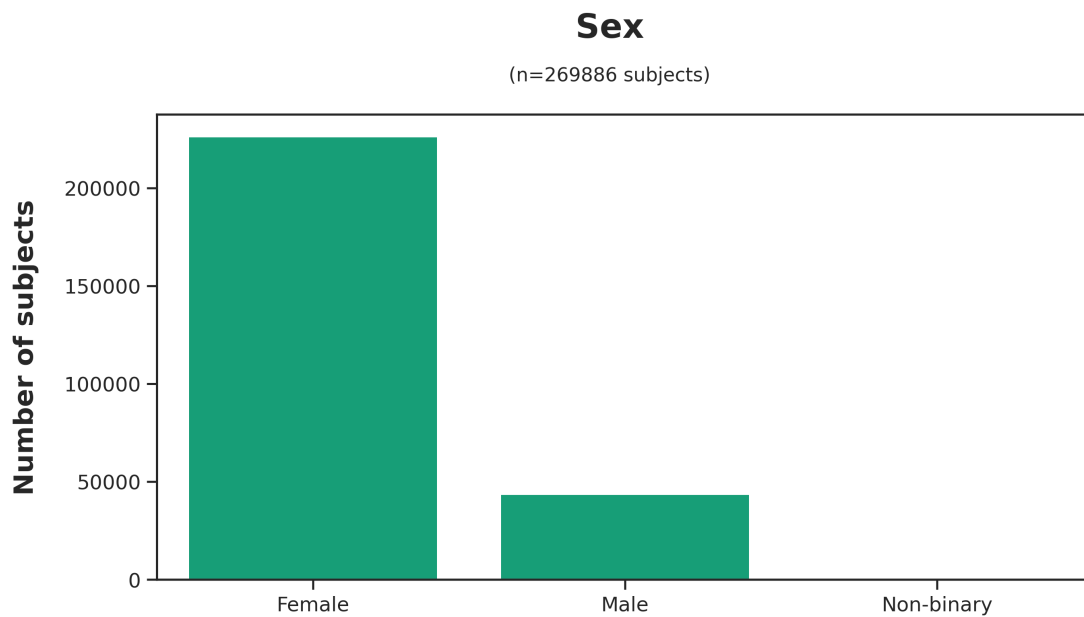
After filtering, 269,926 cases remain in the dataset `mbsa_df`

## **Generate Figures and Tables**

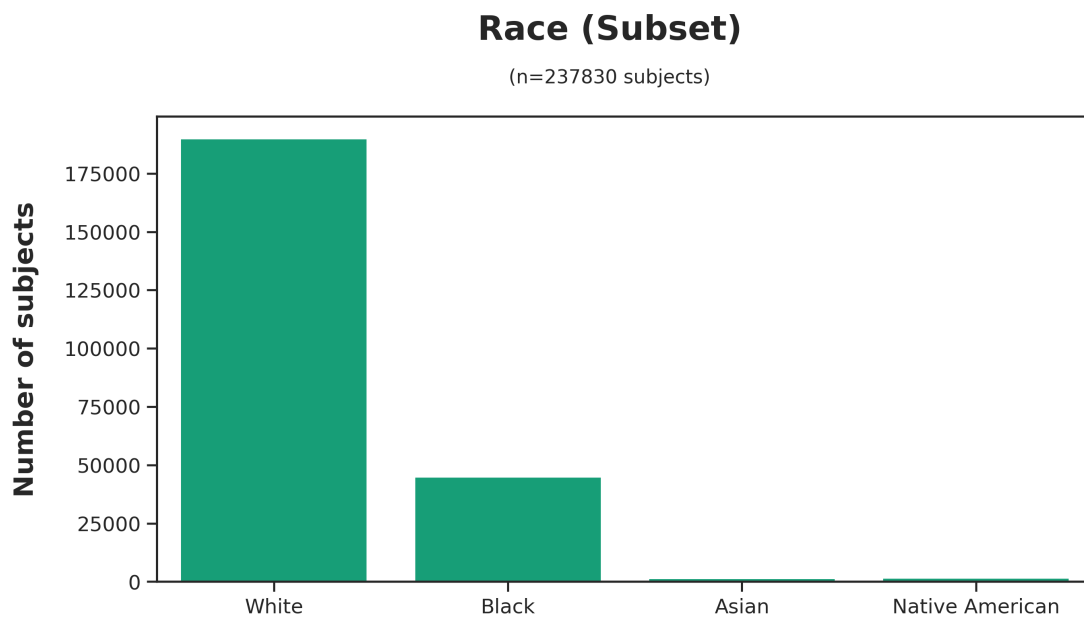
Age



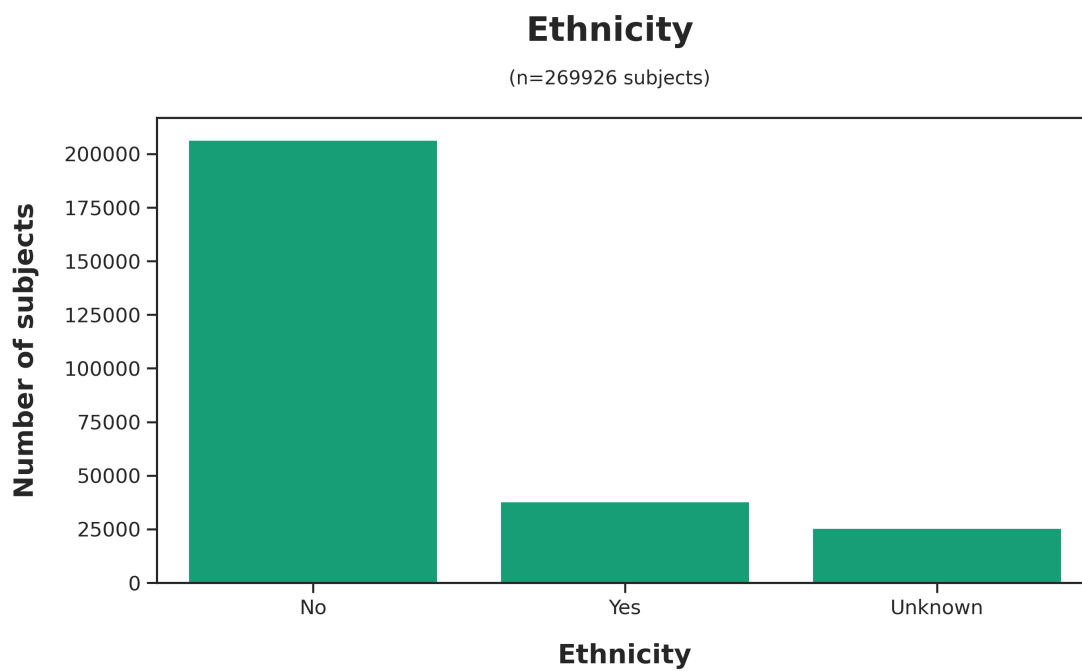
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'Figure saved to /home/pranav/work/pranavmishra90/courses/by-mishra/research-data-management/data/analysis/bariatric/runs/run\_001/figures//demographics/Run001\_DemographicRace.jpg'



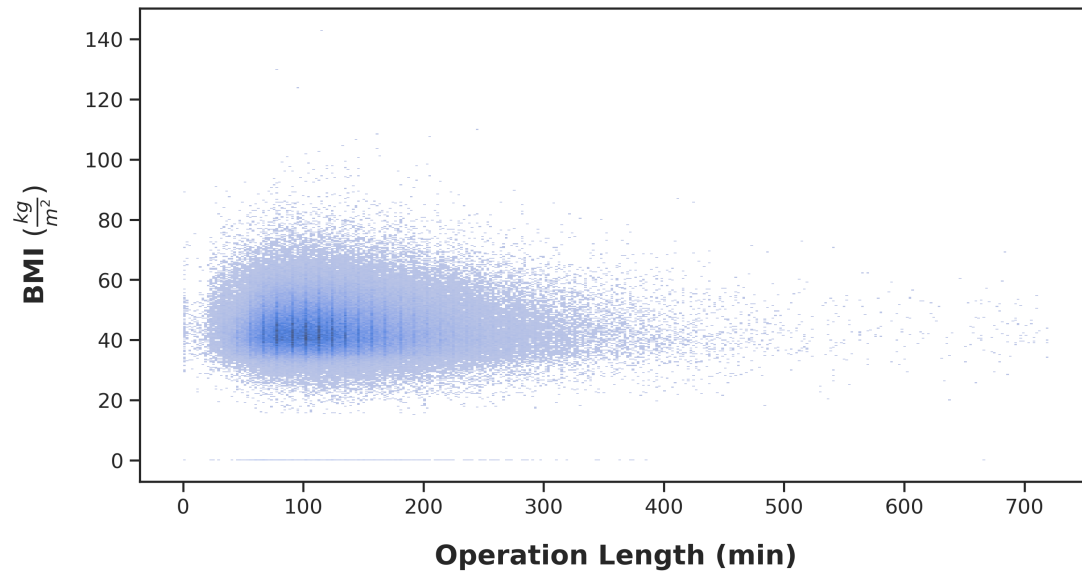
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'Figure saved to /home/pranav/work/pranavmishra90/courses/by-mishra/research-data-management/data/analysis/bariatric/runs/run\_001/figures//surgery/Run001\_Sx-OPLENGTH\_PREVSURG.jpg'

## Operation Length

(n=269926 subjects)



Save the run dataset