

| Comprehensive Patient Health and Billing Data - Q3 2024 | | | | | | | | | | | | | | | | |
|---|---------------------|-----|--------|-----------------|-------------------|-------------------|-------------------|----------------|----------------|---------------------|--------------|----------------|----------------------|-------------|----------------|----------------|
| ID | Patient Information | | | Medical History | | | Admission Details | | | Billing & Insurance | | | Treatment & Outcomes | | | |
| | Name | Age | Gender | Blood Type | Medical Condition | Date of Admission | Room Number | Admission Type | Discharge Date | Medication | Test Results | Insurance Type | Room Type | Room Number | Admission Type | Discharge Date |
| 0 | Bobby Jackson | 30 | Male | B- | Cancer | 2024-01-31 | ... | 18856.281306 | 328 | Urgent | 2024-02-02 | Paracetamol | Normal | | | |
| 1 | Leslie Terry | 62 | Male | A+ | Obesity | 2019-08-20 | ... | 33643.327287 | 265 | Emergency | 2019-08-26 | Ibuprofen | Inconclusive | | | |
| 2 | Danny Smith | 76 | Female | A- | Obesity | 2022-09-22 | ... | 27955.096879 | 205 | Emergency | 2022-10-07 | Aspirin | Normal | | | |
| 3 | Andrew Watts | 28 | Female | O+ | Diabetes | 2020-11-18 | ... | 37909.782410 | 450 | Elective | 2020-12-18 | Ibuprofen | Abnormal | | | |
| 4 | Adrienne Bell | 43 | Female | AB+ | Cancer | 2022-09-19 | ... | 14238.317814 | 458 | Urgent | 2022-10-09 | Penicillin | Abnormal | | | |
| 5 | Emily Johnson | 36 | Male | A+ | Asthma | 2023-12-20 | ... | 48145.110951 | 389 | Urgent | 2023-12-24 | Ibuprofen | Normal | | | |
| 6 | Edward Edwards | 21 | Female | AB- | Diabetes | 2020-11-03 | ... | 19580.872345 | 389 | Emergency | 2020-11-15 | Paracetamol | Inconclusive | | | |
| 7 | Christina Martinez | 20 | Female | A+ | Cancer | 2021-12-28 | ... | 45820.462722 | 277 | Emergency | 2022-01-07 | Paracetamol | Inconclusive | | | |
| 8 | Jasmine Aguilar | 82 | Male | AB+ | Asthma | 2020-07-01 | ... | 50119.222792 | 316 | Elective | 2020-07-14 | Aspirin | Abnormal | | | |
| 9 | Christopher Berg | 58 | Female | AB- | Cancer | 2021-05-23 | ... | 19784.631862 | 249 | Elective | 2021-06-22 | Paracetamol | Inconclusive | | | |
| 10 | Michelle Daniels | 72 | Male | O+ | Cancer | 2020-04-19 | ... | 12576.795609 | 394 | Urgent | 2020-04-22 | Paracetamol | Normal | | | |
| 11 | Aaron Martinez | 38 | Female | A- | Hypertension | 2023-08-13 | ... | 7999.586880 | 288 | Urgent | 2023-09-05 | Lipitor | Inconclusive | | | |
| 12 | Connor Hansen | 75 | Female | A+ | Diabetes | 2019-12-12 | ... | 43282.283358 | 134 | Emergency | 2019-12-28 | Penicillin | Abnormal | | | |
| 13 | Robert Bauer | 68 | Female | AB+ | Asthma | 2020-05-22 | ... | 33207.706634 | 309 | Urgent | 2020-06-19 | Lipitor | Normal | | | |
| 14 | Brooke Brady | 44 | Female | AB+ | Cancer | 2021-10-08 | ... | 40701.599227 | 182 | Urgent | 2021-10-13 | Paracetamol | Normal | | | |
| 15 | MS. Natalie Gamble | 46 | Female | AB- | Obesity | 2023-01-01 | ... | 12263.357425 | 465 | Elective | 2023-01-11 | Aspirin | Inconclusive | | | |
| 16 | Haley Perkins | 63 | Female | A+ | Arthritis | 2020-06-23 | ... | 24499.847904 | 114 | Elective | 2020-07-14 | Paracetamol | Normal | | | |
| 17 | MS. Jamie Campbell | 38 | Male | AB- | Obesity | 2020-03-08 | ... | 17440.465444 | 449 | Urgent | 2020-04-02 | Paracetamol | Abnormal | | | |
| 18 | Luke Burgess | 34 | Female | A- | Hypertension | 2021-03-04 | ... | 18843.023018 | 260 | Elective | 2021-03-14 | Aspirin | Abnormal | | | |
| 19 | Daniel Schmidt | 63 | Male | B+ | Asthma | 2022-11-15 | ... | 23762.203579 | 465 | Elective | 2022-11-22 | Penicillin | Normal | | | |
| 20 | Timothy Burns | 67 | Female | A- | Asthma | 2023-06-28 | ... | 42.514589 | 115 | Elective | 2023-07-02 | Aspirin | Normal | | | |
| 21 | Christopher Bright | 48 | Male | B+ | Asthma | 2020-01-21 | ... | 17695.911622 | 295 | Urgent | 2020-02-09 | Lipitor | Normal | | | |
| 22 | Kathryn Stewart | 58 | Female | O+ | Arthritis | 2022-05-12 | ... | 5998.102908 | 327 | Urgent | 2022-06-10 | Lipitor | Inconclusive | | | |
| 23 | Dr. Eileen Thompson | 59 | Male | A+ | Asthma | 2021-08-02 | ... | 25250.052428 | 119 | Urgent | 2021-08-12 | Lipitor | Inconclusive | | | |
| 24 | Paul Henderson | 72 | Female | AB+ | Hypertension | 2020-05-15 | ... | 33211.295419 | 109 | Emergency | 2020-06-08 | Paracetamol | Inconclusive | | | |
| 25 | Peter Fitzgerald | 73 | Male | AB+ | Obesity | 2020-05-15 | ... | 19746.832008 | 162 | Urgent | 2020-05-20 | Aspirin | Abnormal | | | |
| 26 | Cathy Small | 51 | Female | O- | Asthma | 2023-12-23 | ... | 26786.529555 | 401 | Elective | 2024-01-19 | Ibuprofen | Normal | | | |
| 27 | Mr. Kenneth Moore | 34 | Female | A+ | Diabetes | 2022-06-21 | ... | 18834.801341 | 157 | Emergency | 2022-06-30 | Lipitor | Abnormal | | | |
| 28 | Mary Hunter | 38 | Female | O- | Hypertension | 2021-01-03 | ... | 32643.299353 | 223 | Emergency | 2021-01-16 | Penicillin | Normal | | | |
| 29 | Joshua Oliver | 63 | Female | B+ | Hypertension | 2023-10-03 | ... | 5767.011054 | 293 | Elective | 2023-10-12 | Paracetamol | Abnormal | | | |
| 30 | Thomas Martinez | 34 | Male | B- | Asthma | 2019-08-18 | ... | 47909.128810 | 371 | Urgent | 2019-09-01 | Ibuprofen | Inconclusive | | | |
| 31 | James Patterson | 23 | Female | A+ | Arthritis | 2019-11-03 | ... | 25835.323595 | 108 | Urgent | 2019-11-29 | Penicillin | Abnormal | | | |
| 32 | William Cooper | 78 | Male | AB- | Arthritis | 2023-05-18 | ... | 17993.226200 | 245 | Elective | 2023-06-15 | Penicillin | Normal | | | |
| 33 | Erin Ortega | 43 | Male | AB- | Cancer | 2023-05-24 | ... | 21185.953530 | 494 | Elective | 2023-06-03 | Ibuprofen | Normal | | | |
| 34 | Nicole Rodriguez | 30 | Female | AB+ | Diabetes | 2020-01-17 | ... | 8408.949354 | 285 | Emergency | 2020-02-10 | Lipitor | Normal | | | |
| 35 | David Anderson | 25 | Female | AB+ | Asthma | 2021-01-07 | ... | 45453.418546 | 228 | Elective | 2021-01-26 | Lipitor | Abnormal | | | |
| 36 | Denise Torres | 33 | Male | AB+ | Diabetes | 2019-10-14 | ... | 4397.776995 | 481 | Urgent | 2019-10-19 | Paracetamol | Inconclusive | | | |
| 37 | Cassandra Robinson | 26 | Female | B- | Hypertension | 2021-12-19 | ... | 9380.325968 | 212 | Urgent | 2022-01-16 | Ibuprofen | Normal | | | |
| 38 | Nicole Lucero | 70 | Female | O- | Diabetes | 2022-03-12 | ... | 48290.693407 | 113 | Emergency | 2022-03-29 | Lipitor | Abnormal | | | |
| 39 | Pamela Fernandez | 57 | Female | B- | Obesity | 2021-01-17 | ... | 32973.940833 | 272 | Urgent | 2021-01-29 | Penicillin | Abnormal | | | |
| 40 | Christopher Lee | 74 | Female | B- | Hypertension | 2021-09-15 | ... | 49943.278499 | 478 | Emergency | 2021-10-05 | Lipitor | Normal | | | |
| 41 | Thomas Morse | 81 | Male | A+ | Hypertension | 2020-01-27 | ... | 35633.955454 | 196 | Urgent | 2020-02-09 | Aspirin | Normal | | | |
| 42 | Mr. Eric Lane | 49 | Female | A- | Asthma | 2022-06-24 | ... | 25966.328610 | 418 | Elective | 2022-07-18 | Paracetamol | Normal | | | |
| 43 | Katherine Smith | 26 | Female | AB+ | Obesity | 2021-06-09 | ... | 21784.445071 | 410 | Urgent | 2021-07-01 | Paracetamol | Normal | | | |

Visual Studio Code interface showing a Python script named `h1.1.py` and a file named `healthcare_dataset.csv`.

The script performs the following actions:

- Prints the medication distribution: `print("Medication: \n", df["Medication"].value_counts(), "\n")`
- Prints the test results distribution: `print("Test Results: \n", df["Test Results"].value_counts(), "\n")`
- Creates a figure with 2x2 subplots: `fig, axes = plt.subplots(2, 2, figsize=(12, 10))`
- Plot 1: Age Distribution (Histogram) using `sns.histplot` with `bins=15`, `kde=True`, and `color="skyblue"`. The title is "Age Distribution of Patients".
- Plot 2: Gender vs Test Results (Boxplot) using `sns.boxplot` with `palette="pastel"`. The title is "Test Results by Gender".
- Plot 3: Blood Type Distribution (Countplot) using `sns.countplot` with `palette="pastel"`. The title is "Blood Type Distribution".
- Plot 4: Medical Condition by Gender (Countplot) using `sns.countplot` with `hue="Gender"` and `palette="coolwarm"`. The title is "Medical Condition by Gender".

The script concludes with `plt.tight_layout()` and `plt.show()`.

The Explorer sidebar shows the project structure, including files like `h1.1.py`, `healthcare_dataset.csv`, and various data files and scripts.

The bottom status bar indicates the current line is 15, column 1, with 4 spaces, UTF-8 encoding, and CRLF line endings. The Python environment is `venv (3.11.5)`.

Figure 1

