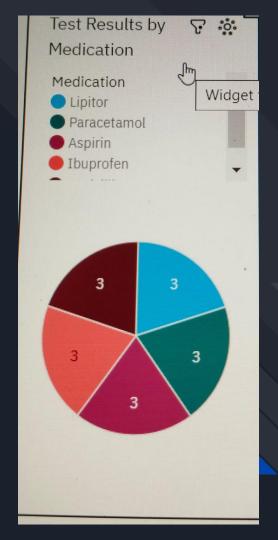# Enhancement Of Patient Care

Using BI COGNOS

BY

SATHYA.V

SAI VARSHIKA.J

RAHITHYA.M

AGENDA FOR THE FOLLOWING
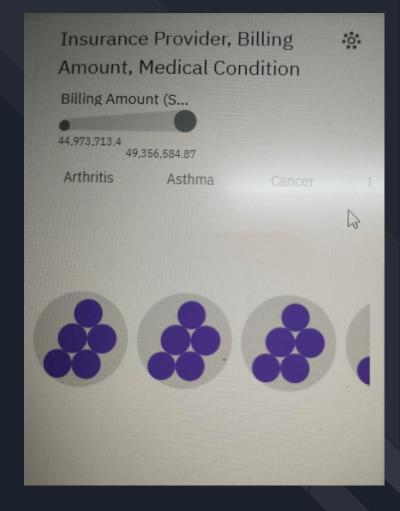
>>>TEST RESULTS BY MEDICATION

>>>INSURANCE PROVIDER, BILLING AMOUNT, MEDICAL CONDITION

>>>AGE COMPARED TO MEDICAL CONDITION FOR MEDICATION

>>>GENDER DIVERSITY

>>>ADMISSION TYPE COLORED BY INSURANCE PROVIDER

>>>BILLING AMOUNT FOR GENDER, INSURANCE PROVIDER AND MEDICAL CONDITION

>>>MEDICAL CONDITION FOR TEST RESULTS

Test Results Distribution by Medication
The pie chart provides a visual representation of test results segmented by different medications. The chart categorizes results for four specific medications: Lipitor, Paracetamol, Aspirin, and Ibuprofen. Each segment is equally distributed, indicating that there are three test results associated with each medication. This visualization helps in understanding the distribution and comparison of test outcomes across these commonly used medications.

Test Results by Medication

Medication
- Lipitor
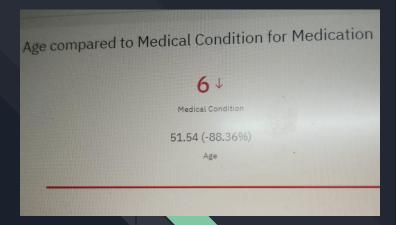- Paracetamol
- Aspirin
- Ibuprofen

Widget

The rising costs of healthcare are a major concern for patients, providers, and insurers alike. Understanding the financial burden associated with various medical conditions is crucial for effective healthcare management and policy development. This dashboard, created using IBM Cognos Analytics, provides a detailed visualization of billing amounts across different medical conditions such as arthritis, asthma, and cancer. By examining the distribution and magnitude of these costs,
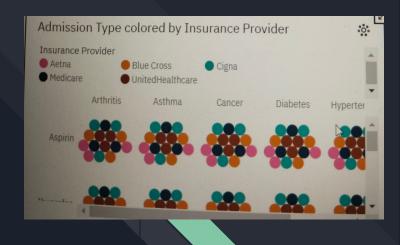
stakeholders can identify key areas where resources are being heavily utilized. This analysis aims to support more informed decision-making processes, ensuring that interventions can be tailored to manage expenses and improve patient care efficiently.

Insurance Provider, Billing Amount, Medical Condition

Billing Amount (S...

44,973,713.4

49,356,584.87

Arthritis   Asthma   Cancer

The image displays a comparative analysis of age and medical condition for medication. It reveals a numerical value of "6" for the medical condition and "51.54" for the age, with a significant decrease indicated by "-88.36%." This suggests a substantial difference or reduction when comparing the medical condition with the age factor, implying a noteworthy disparity that could be relevant for understanding the medication needs based on age.

Age compared to Medical Condition for Medication

6 ↓

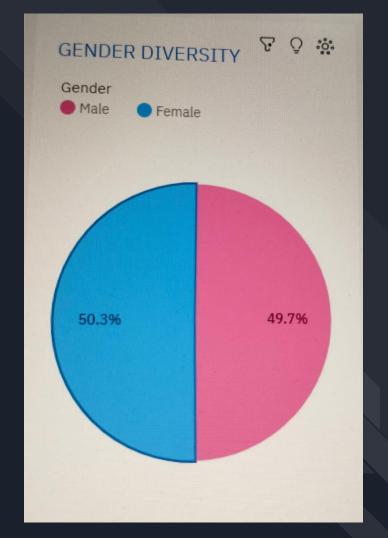Medical Condition

51.54 (-88.36%)

Age

The image displays a visualization of hospital admission types segmented by insurance provider, color-coded for ease of differentiation. The chart features data on various medical conditions—Arthritis, Asthma, Cancer, Diabetes, and Hypertension—and shows the distribution of admissions based on insurance providers such as Aetna, Blue Cross, Cigna, Medicare, and UnitedHealthcare. Each cluster of colored circles represents the proportion of admissions for a particular condition covered by each insurance provider, giving a clear comparative overview of insurance coverage across different health issues.

The balanced gender distribution depicted in the pie chart, with females at 50.3% and males at 49.7%, is a positive indicator for enhancing patient care. This equitable representation ensures that healthcare strategies and interventions can be tailored to meet the needs of both genders effectively. It supports the development of more inclusive and comprehensive care plans, ultimately leading to improved patient outcomes and

satisfaction across the diverse patient population

GENDER DIVERSITY

Gender
● Male   ● Female

50.3%   49.7%

Analysis of Billing Amounts for Gender, Insurance Provider, and Medical Conditions

This table presents a detailed breakdown of medical billing amounts based on gender, insurance provider, and specific medical conditions. The data is segmented by two major insurance providers, Aetna and Blue Cross, and encompasses six medical conditions: Arthritis, Asthma, Cancer, Diabetes, Hypertension, and Obesity. The billing amounts are provided separately for female and male patients, with a summary total for each category and insurance provider. The overall billing totals are also summarized, offering insight into the distribution and scale of healthcare costs associated with these conditions.

Billing Amount for Gender, Insurance Provider and Medical Condition

Billing Amount		Female	Male	Summary
Aetna	Arthritis	23,087,892.1	23,589,551.6	46,677,443.7
	Asthma	21,833,269.46	23,140,443.94	44,973,713.4
	Cancer	22,838,741.14	22,496,942.01	45,335,683.15
	Diabetes	23,009,956.12	24,081,120.64	47,091,076.76
	Hypertension	23,178,629.08	25,402,669.49	48,581,298.57
	Obesity	22,585,765.28	23,618,122.09	46,203,887.37
	Summary	**136,534,253.17**	**142,328,849.77**	**278,863,102.95**
Blue Cross	Arthritis	23,175,140.82	24,593,103.72	47,768,244.54
	Asthma	22,789,806.12	23,345,354.79	46,135,160.91
	Cancer	23,307,880.88	22,074,543.49	45,382,424.37
	Diabetes	24,224,125.74	23,801,162.03	48,025,287.77
	Hypertension	24,026,519.4	22,560,072.34	46,586,591.75
	Obesity	24,318,800.95	25,037,783.92	49,356,584.87
	Summary	**141,842,273.91**	**141,412,020.3**	**283,254,294.21**

Analysis of Medical Condition Test Results
This bar chart displays the test results categorized by medical conditions, highlighting the changes observed. The chart differentiates between increases (green bars) and decreases (red bars) in test results, with a final bar representing the total (purple bar) outcome.
This visualization helps in understanding the overall impact of medical conditions.