# PhaymaCare Analysis

**Business Intelligence Analyst - DART Team** 

**Ministry of Health** 

Competition # 102342

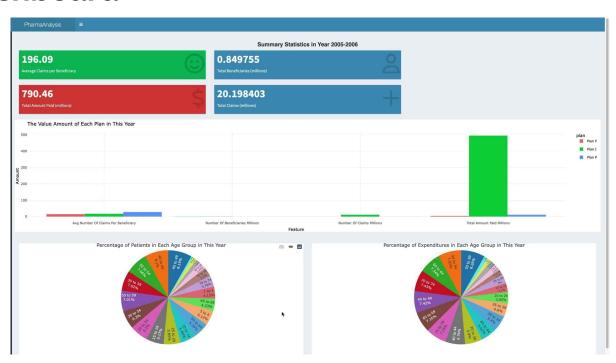
Written Assignment

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Date: July.30, 2023

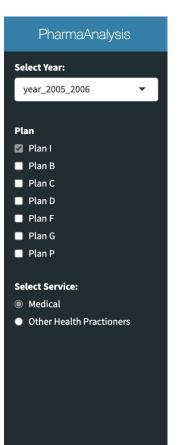
### **PharmaCare Dashboard**

https://eyrexh.shinyapps.io/pharmaanalysis/



#### **Dashboard Introduction - Sidebar Menu**

- 1. Year range from 2005 to 2010
- 2. 7 plans in BC
  - a. Fair PharmaCare (Plan I)
  - b. Permanent Residents of Licensed Residential Care Facilities (Plan B)
  - c. Recipients of B.C. Income Assistance (Plan C)
  - d. Patients Registered with a Provincial Cystic Fibrosis Clinic (Plan D)
  - e. Children Eligible Through the At Home Program of the Ministry of Children and Family Development (Plan F)
  - f. No-Charge Psychiatric Medication Plan (Plan G)
  - g. Palliative Care Drug Plan (Plan P)
- 2 different services
  - a. Medical
  - b. Other Health Practitioners



## **Dashboard Introduction - Summary Statistics Info**

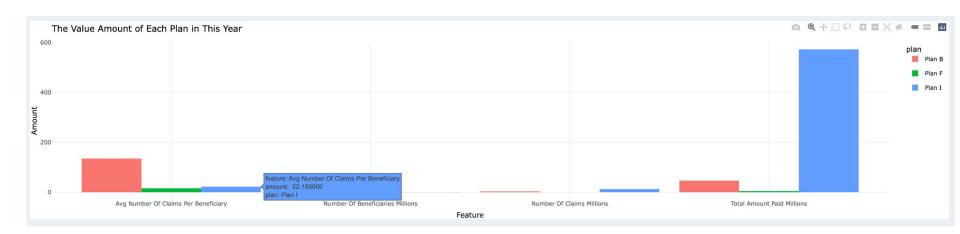
This section displays important statistics for the total amount of all the plans in your chosen year, including:

- Average Claims per Beneficiary
- Total Beneficiaries in millions
- Total Claims in millions
- Total Amount Paid in millions



#### **Dashboard Introduction - Bar Chart**

This chart visualizes the previously mentioned statistics for the chosen year and multiple selected plans. It allows for easy comparison with the total summary statistics info.



#### **Dashboard Introduction - Pie Chart**

There are two pie charts in this section:

- The first pie chart shows the percentage of patients in different age groups for the chosen year and selected service.
- The second pie chart displays the percentage of expenditures in different age groups for the chosen year and selected service.



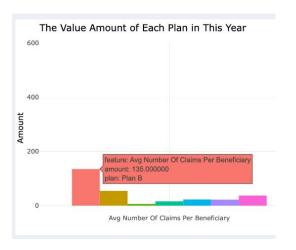
## **Interesting Findings - Yearly Trends**

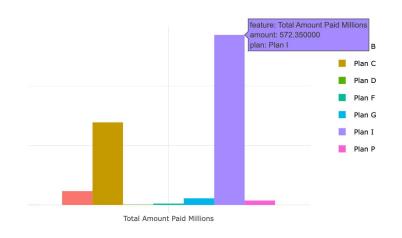
- The total amount of "Average Claims per Beneficiary", "Total Claims" and "Total Amount Paid" increase from 2005 to 2010 yearly.
- 2. However the "Total Beneficiaries" slightly decreases during from 2005 to 2008.
- 3. Same person claim more in these years.



## **Interesting Findings - Plan Comparison**

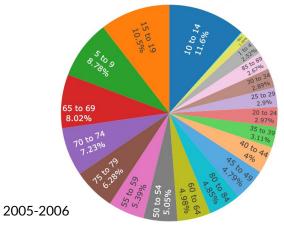
- In the selected year 2009-2010, Fair PharmaCare (Plan I) is the most common plan to be claimed. This plan also costs the most spendings.
- Permanent Residents of Licensed Residential Care Facilities (Plan B) have the highest average number of claims per beneficiary. People in this plan prefer to claim almost double than the other plans.

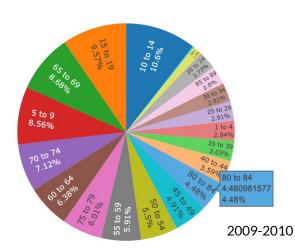




## **Interesting Findings - Age Group Patients**

- In the selected year 2005-2006, the Age group "10-14" and the age group "15-19" are the top two groups claims the PharmaCare. After these two teenage groups are the "5-9" kids group and the "65-69" middle-age group.
- In the selected year 2009-2010, the Age group "10-14" and the age group "15-19" are still the top two groups claims the PharmaCare. The "65-69" middle-age group is 0.12% more than the "5-9" kids group this year.
- The senior's groups are not at the top in these two years.

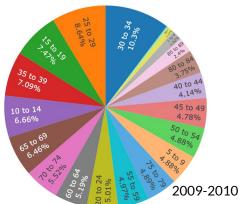




## **Interesting Findings - Age Group Expenditures**

- In the selected year 2005-2006, though "10-14" is the age group claimed most, the teenage group "15-19" spends more expenditure. After these two teenage groups are the "30-34" and "25-29" young adults groups which have very small patients amount but spend a lot.
- In the selected year 2009-2010, the age group "30-34" and the age group "25-29" now become the groups that spend the most expenditures. The "10-14" teenage group is only the fourth this year.
- The young adult groups spend the most expenditures even though they do not have a lot of patients.





2005-2006