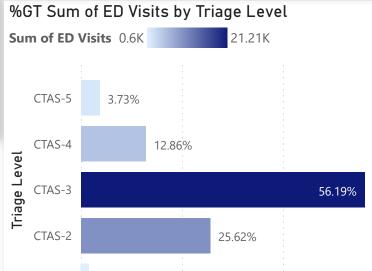


Region	Sum of ED Visits ▼
KW4	33804
Non KW4	3523
Unknown	427
Total	37754



20%

%GT Sum of ED Visits

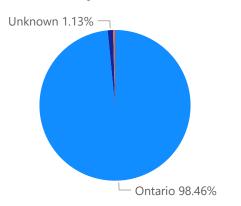
CTAS-1 1.60%

0%

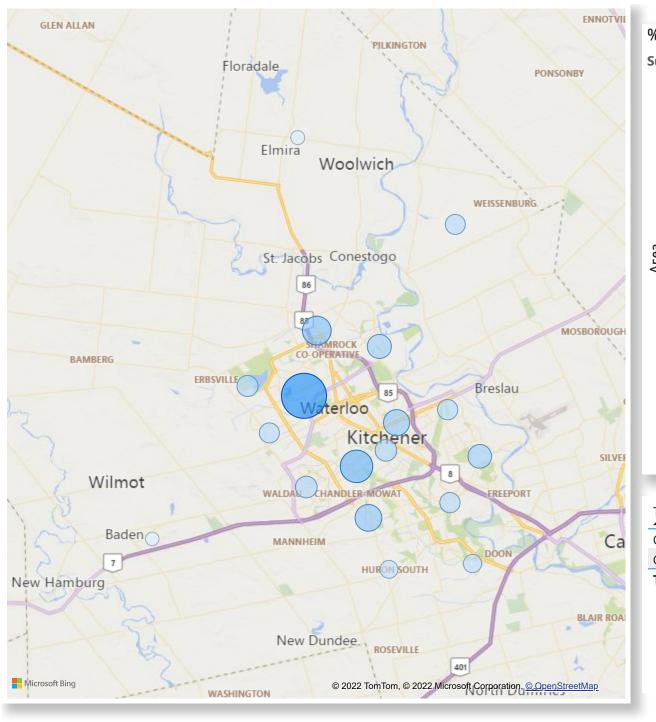
Total	37754
CTAS-5	1409
CTAS-4	4856
CTAS-3	21214
CTAS-2	9671
CTAS-1	604
Triage Level	Sum of ED Visits

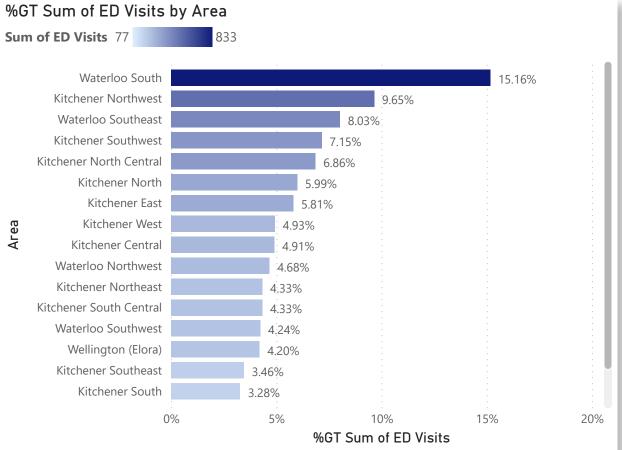
60%

Sum of ED Visits by Province



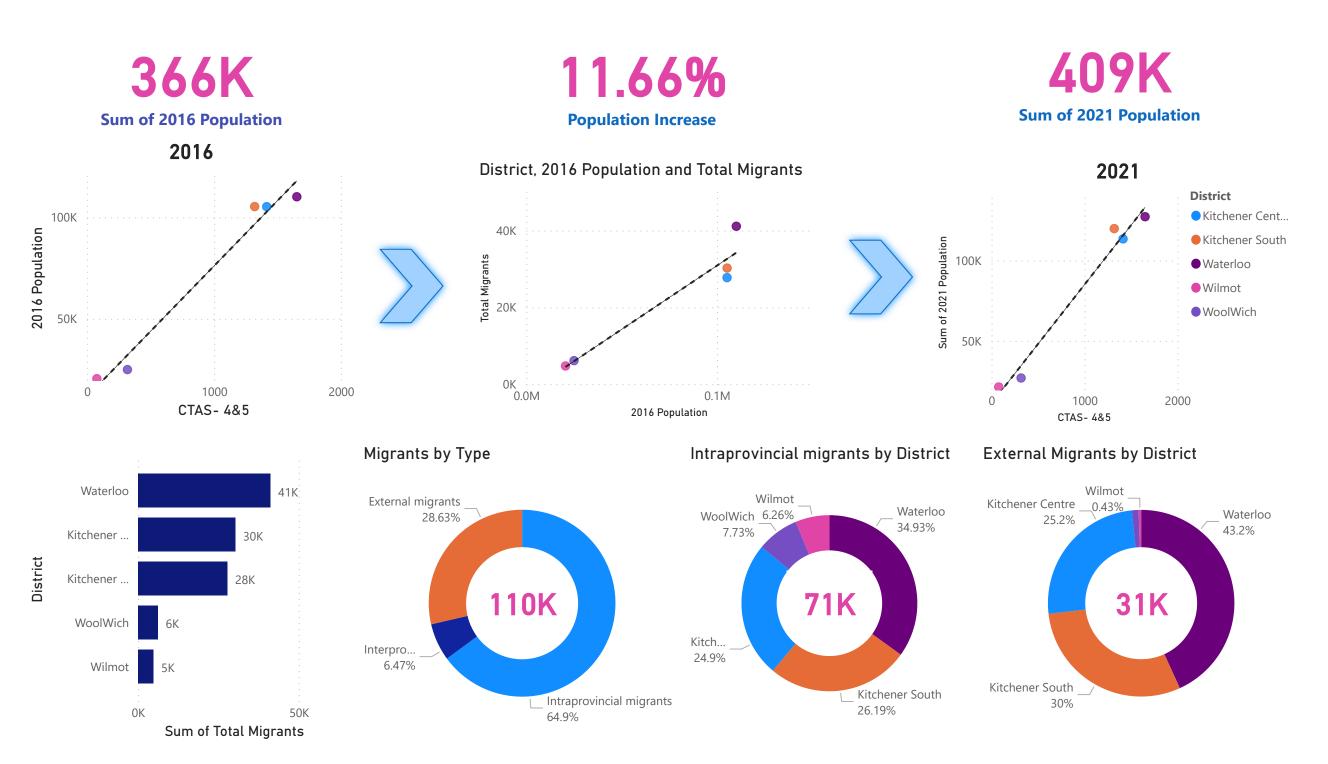
Total	37754
Unknown	427
Ontario	37171
Non Ontario	156
Province	Sum of ED Visits

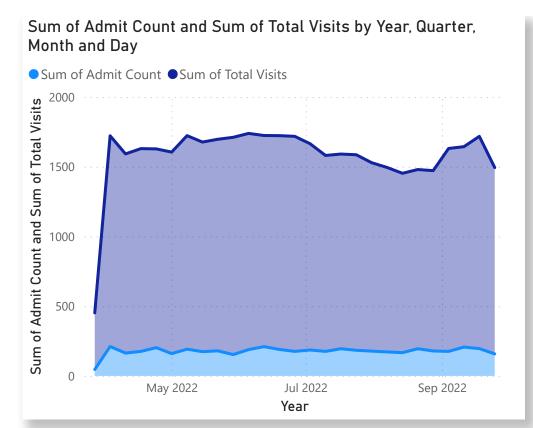


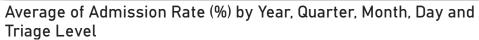


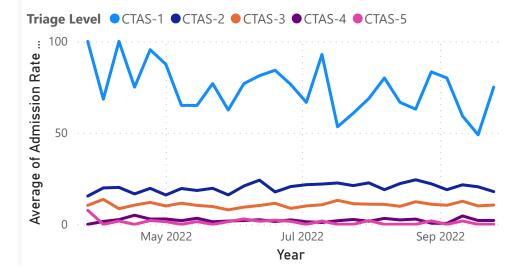
Total	5494	100.00%
CTAS-5	1225	22.30%
CTAS-4	4269	77.70%
Triage Level	Sum of ED Visits	%GT Sum of ED Visits

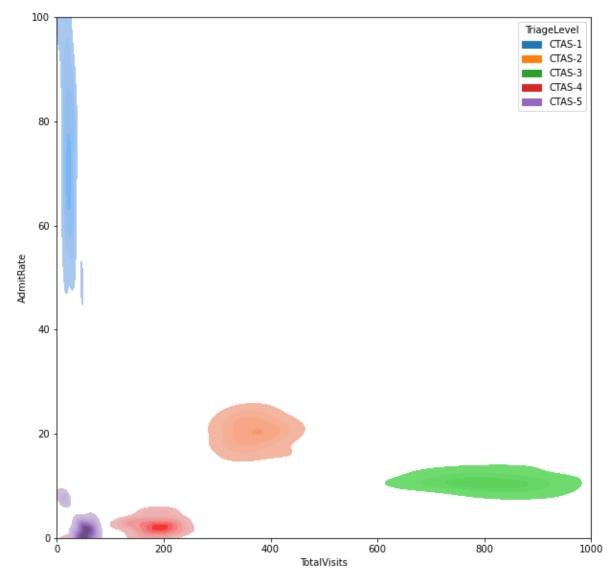
Area	Sum of ED Visits ▼
Waterloo South	833
Kitchener Northwest	530
Waterloo Southeast	441
Kitchener Southwest	393
Kitchener North Central	377
Kitchener North	329
Kitchener East	319
Kitchener West	271
Total	5494







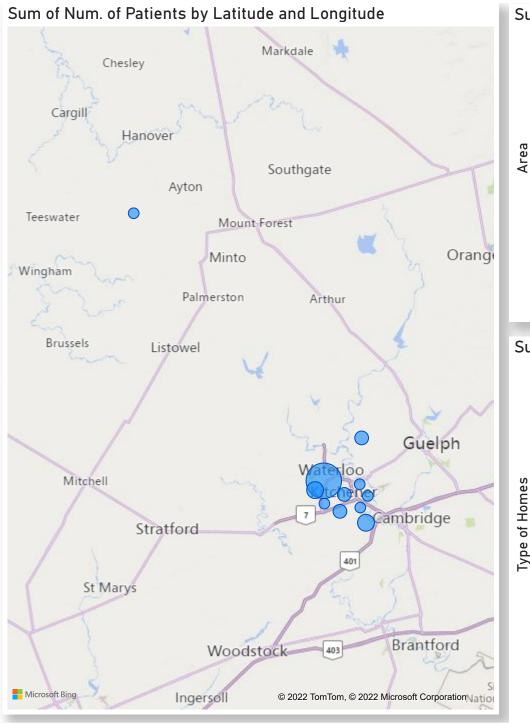


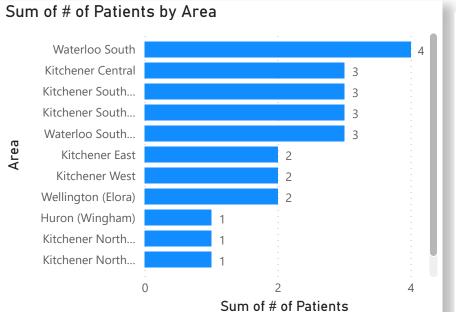


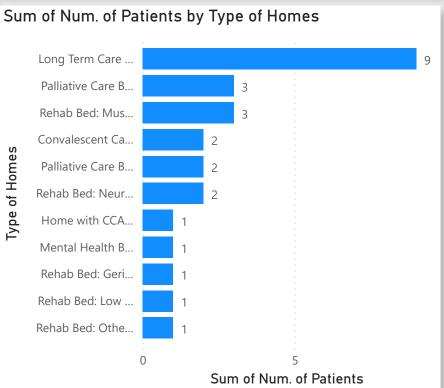
Triage Level	Average of Admission Rate (%)
CTAS-1	74.56
CTAS-2	20.07
CTAS-3	10.68
CTAS-4	2.19
CTAS-5	1.19

Correlation Coefficient:

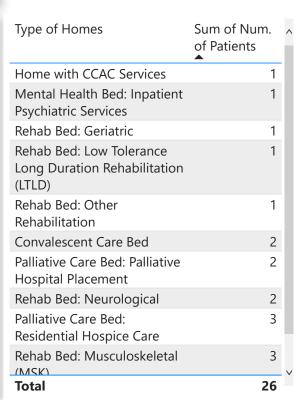
AdmitRate vs Triage Level = -0.8330

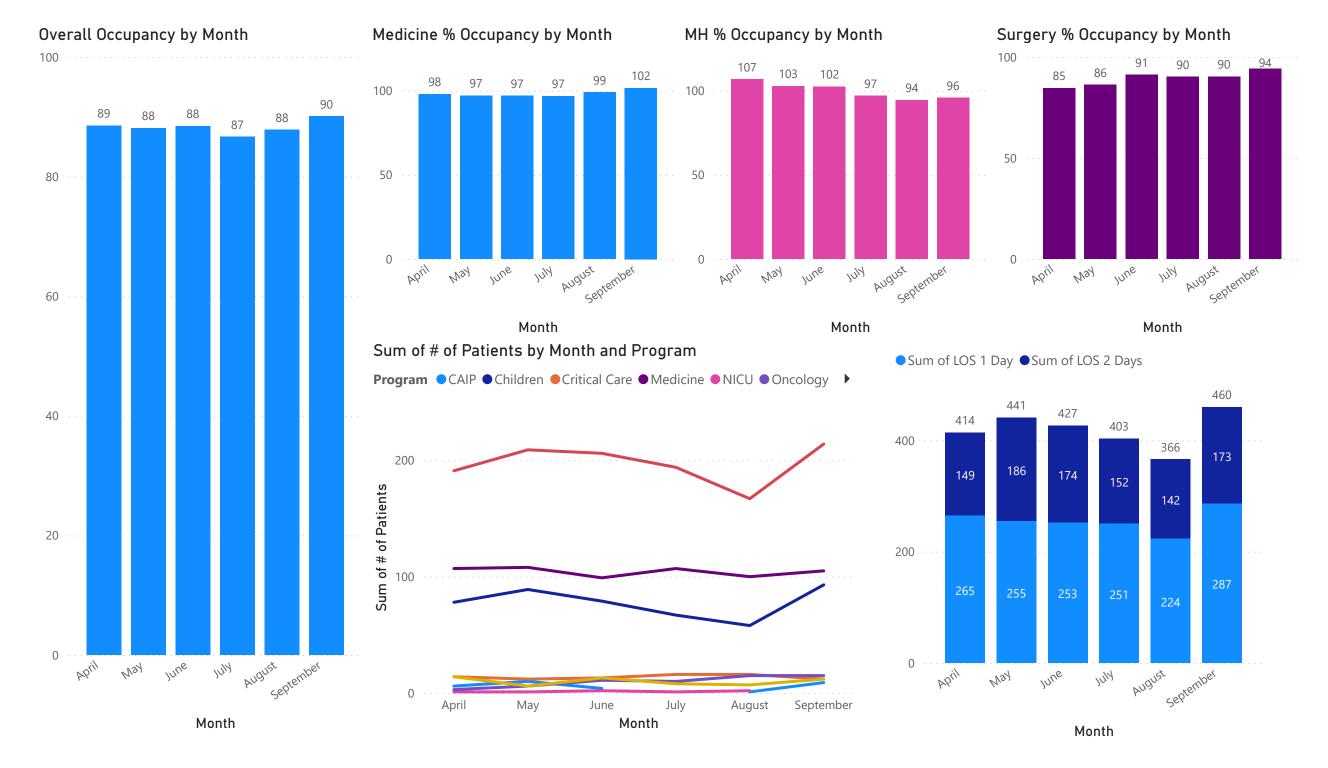






Area	Sum of # of Patients ▼
Waterloo South	4
Kitchener Central	3
Kitchener Southeast	3
Kitchener Southwest	3
Waterloo Southwest	3
Kitchener East	2
Kitchener West	2
Wellington (Elora)	2
Huron (Wingham)	1
Kitchener Northeast	1
Kitchener Northwest	1
Kitchener South Central	1
Total	26





Findings

- 1. Geography: 98.5% are resident in Ontario and 89.5% of them are in KW-4
- 2. Acuity: CTAS-3 take the highest percentage of ED visits, while CTSA-4&5 share 16.6% of the total
- 3. Inside KW4: Waterloo South has the highest ED visit of 11.8% and 15.1% of CTAS-4&5
- 4. Population: Population increase of 11.7% was observed in KW4 between 2016 and 2021. Waterloo city has the highest percentage increase of 15.5%
- 5. **Population:** CTAS-4&5 visits are highly correlated with the 2021 population which indicates that the ED visits figures are representative of the population
- 6. Immigration: Waterloo City has the highest immigration count in the last 5 years- 41k representing 37.4% of the total
- 7. **Immigrants Correlation:** Immigration and 2016 population data were found to be highly correlated for the cities and townships except for Waterloo city which has higher five-year immigrants compared to its population in 2016- This variation is attributed to presence of schools in Waterloo city
- 8. **Immigration Types:** Intraprovincial immigrants form the majority of immigration counts into KW-4. 69.4% which are almost evenly shared by Kitchener Centre, Kitchener south and Waterloo
- 9. **External Immigrants:** 43% of external immigrants from outside Canada within the last 5 years settled in Waterloo city. International students most have been the major reason for this.
- 10. **Admission Rate:** The correlation between Admission Rate and ED Visits by CTAS levels is in line with what was found in literature. The KDE plot gives more illustration on the data points clusters
- 11. Occupancy: Surgery monthly occupancy has an increasing trend for the last 6 months, other programs are relatively flat
- 12. **LOS:** LOS<1 and LOS<2 days are considerably flat for the last six months except for August that was low compared to other months.

