

# Week 3

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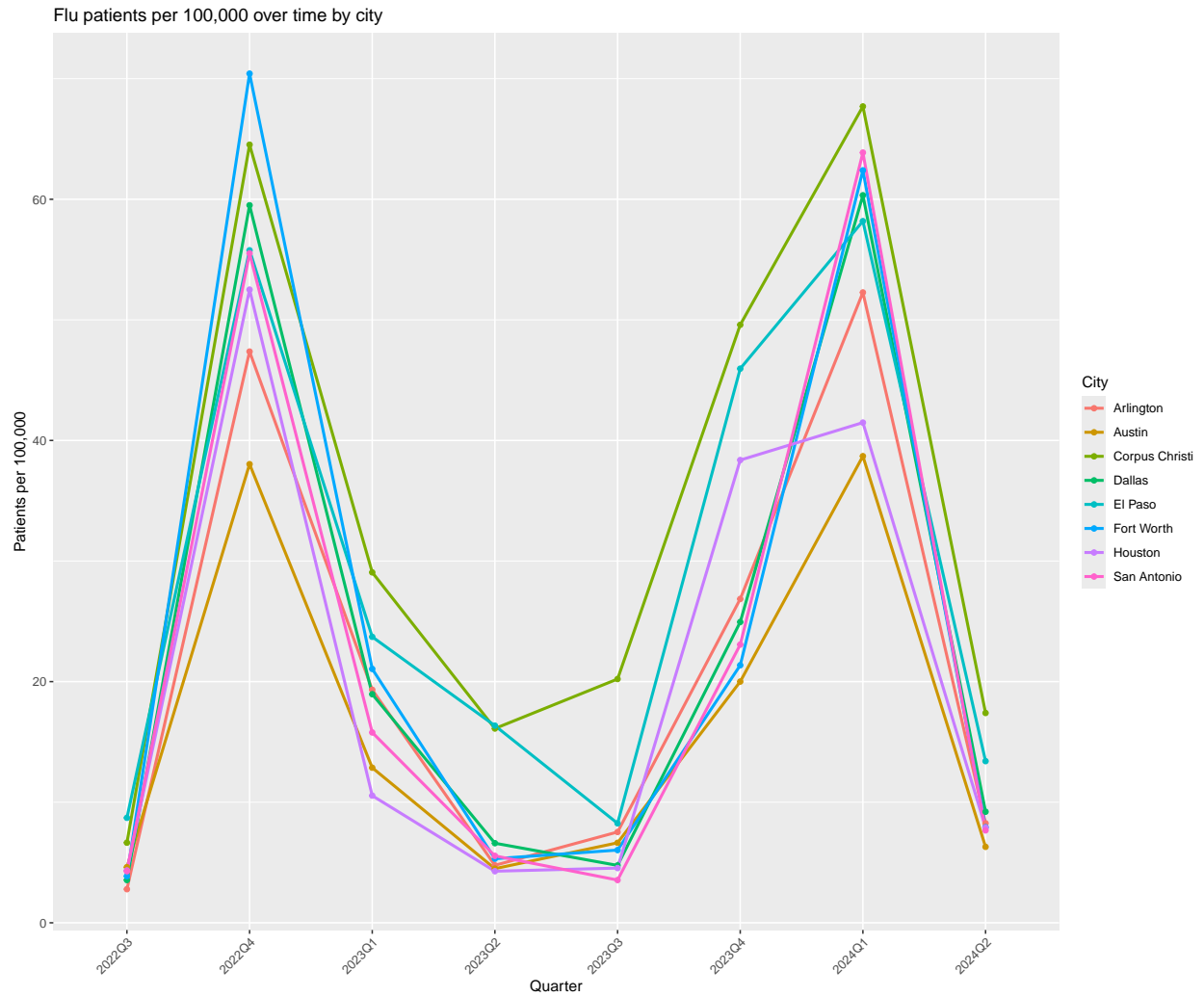
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## Introduction

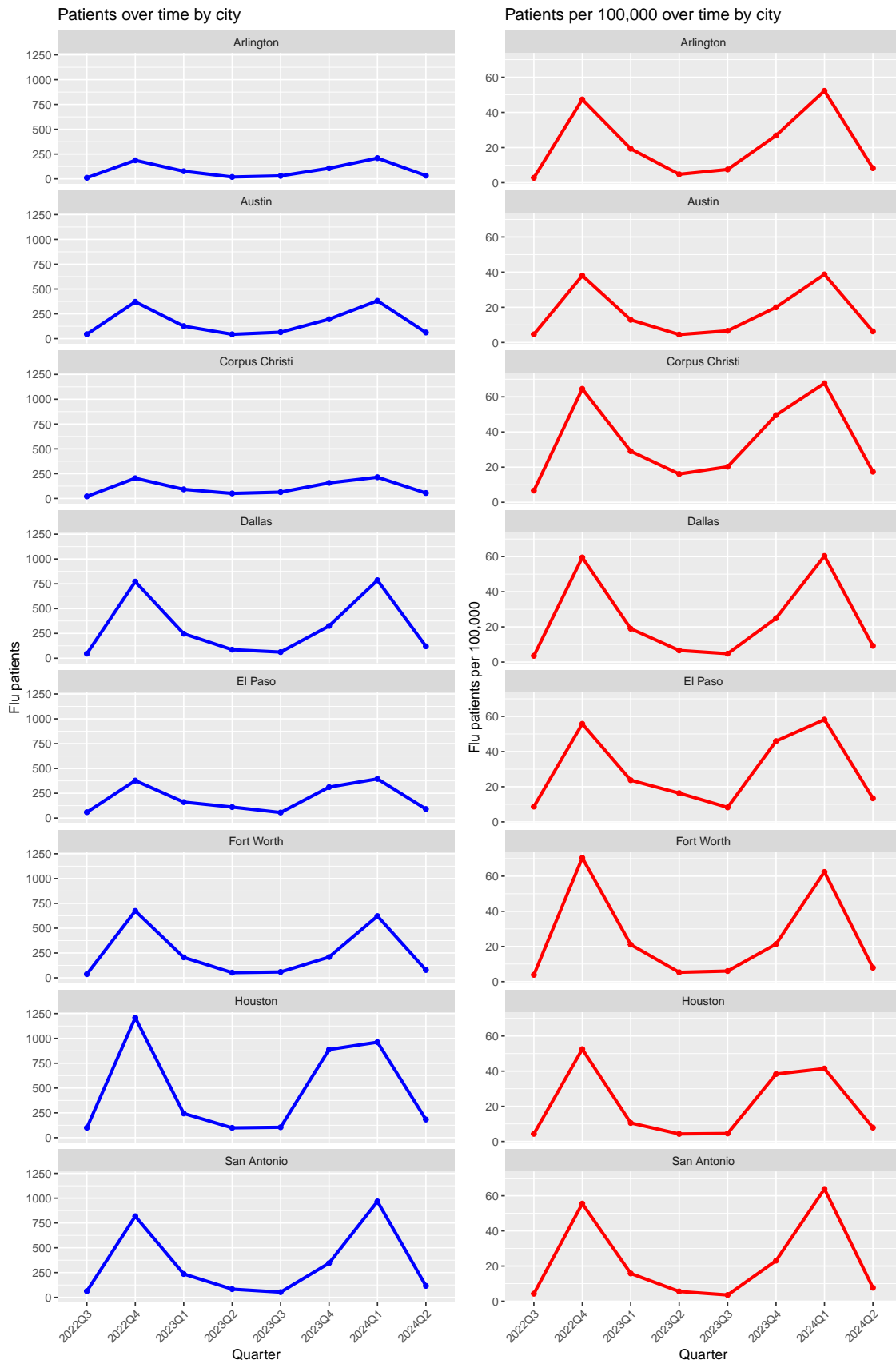
This week, we want to understand disparities in flu patients by city with the help of normalization. From our very helpful population dataset, we'll take a look at major Texas cities and identify any trends. Perhaps, we can investigate flu season by flu season in time-series data as well as looking at qualitative explanations for the rise in flu patients. I'll also look at temperature data and try to graph that data over time and space (<https://www.weather.gov/wrh/climate?wfo=ewx>) and I'll also take a look at healthcare metrics like one from the City Health Dashboard and I also want to maybe find a dataset that holds Texas flu vaccinations by city.

# Normalizing flu data by population

## Analyzing the extreme cities



## Comparing regular counts and normalized counts



# City Health Dashboard

Table 1: Cities by % of Children in Poverty

City	Children in Poverty (%)
Austin	16.1
Arlington	18.4
Fort Worth	19.0
Corpus Christi	25.3
San Antonio	25.9
Dallas	26.2
El Paso	26.3
Houston	30.0

Table 2: Cities by % Uninsured

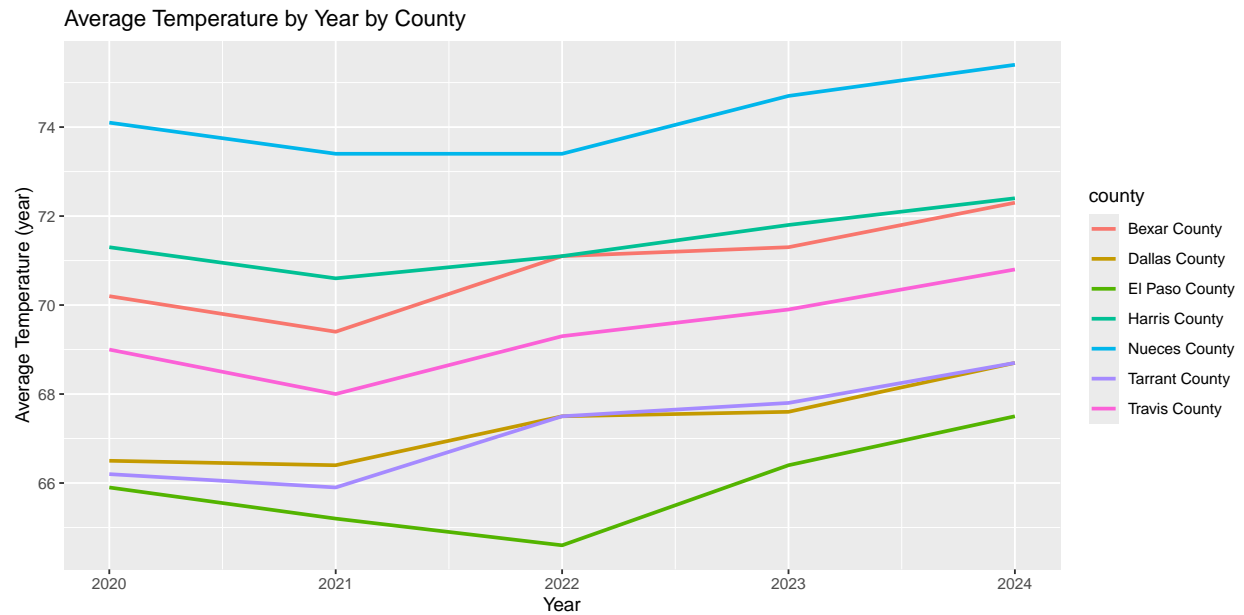
City	Uninsured (%)
Austin	13.9
San Antonio	20.0
Fort Worth	21.0
Corpus Christi	21.2
Arlington	21.6
El Paso	23.8
Dallas	26.1
Houston	26.9

Table 3: Cities by % that get Routine Checkups

City	Routine Checkup (%)
San Antonio	73.5
El Paso	72.9
Arlington	72.8
Corpus Christi	72.5
Houston	72.2
Dallas	71.8
Fort Worth	71.8
Austin	68.5

# Temperature

## Temperature by county



How flu and temperature are related

Flu vaccination rate

Flu legislation?

Qualitative data to explain trends