

An Island in Crisis: The Relationship Between Community Disasters and Admissions Into A Psychiatric Ward



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Background

1. Criteria for admission:

- Clinician determines psychiatric illness – needs immediate attention
- All other restrictive level of care is inappropriate
- Imminent danger to self or others, or impaired judgement

1. Risk Factors:

- Biophysical (Genetic / Pregnancy)
- Psychosocial (Low Socioeconomic Status / Traumatic Disaster)
- Individual (Childhood Abuse)

Community Crises



2015

Super Typhoon Soudelor



2018

Super Typhoon YUTU



2020

COVID Pandemic

Goals:

Find relationship between psychiatric ward admissions and times of community crises.

- a. Commonwealth Healthcare Center
- b. June 28 - July 20 — Gather Data
- c. July 21 - 28 — Organize Data



Significance



Predictions

Will there be an increase in psychiatric admissions?



Community Outreach

When is a good time for community outreach?



Demographic

Which demographics are most susceptible?

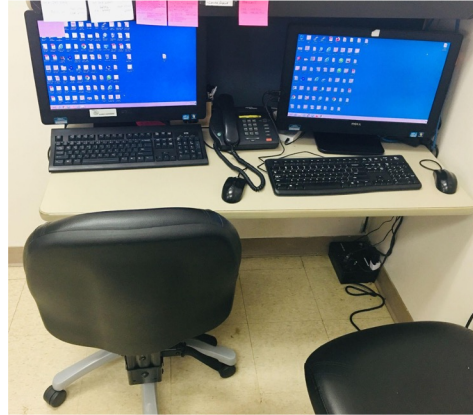


Methods:



Book

Paper admission and discharge records



Records

Digital Records kept by the hospital

Psychosis	Mood Disorder	Homicidal Ideation	Drug Effect	Others	Two or More
15	8	1	0	0	0
10	0	4	5	1	8
35	10	1	1	1	5
26	2	3	1	2	8
11	3	4	1	0	4
18	4	6	0	1	8
28	6	4	3	3	13
8	1	2	0	1	6

Stratify Data

Organization



Name Ryan Kang
Age 18
Sex Male
DOB 02/24/2003

Sample Psychiatry Inpatient Admin Note

ID Data: Ryan, 18 yo male, Korean, full-time student at XYZ high school, 1 sister, lives with mom

CC: Pt admitted for increased stressors: family stress + school stress. Suicidal Ideation

S: Denied medicine compliance. Depression lasts for past two weeks after failing exam. Met today to discuss therapy with counselor. Multiple psychosocial stressor

O: Appearance: Appropriate, groomed

Behavior: Cooperative

Speech: Normal

Mood: Dysphoria

Perception: Normal

Cognition: Alert, oriented

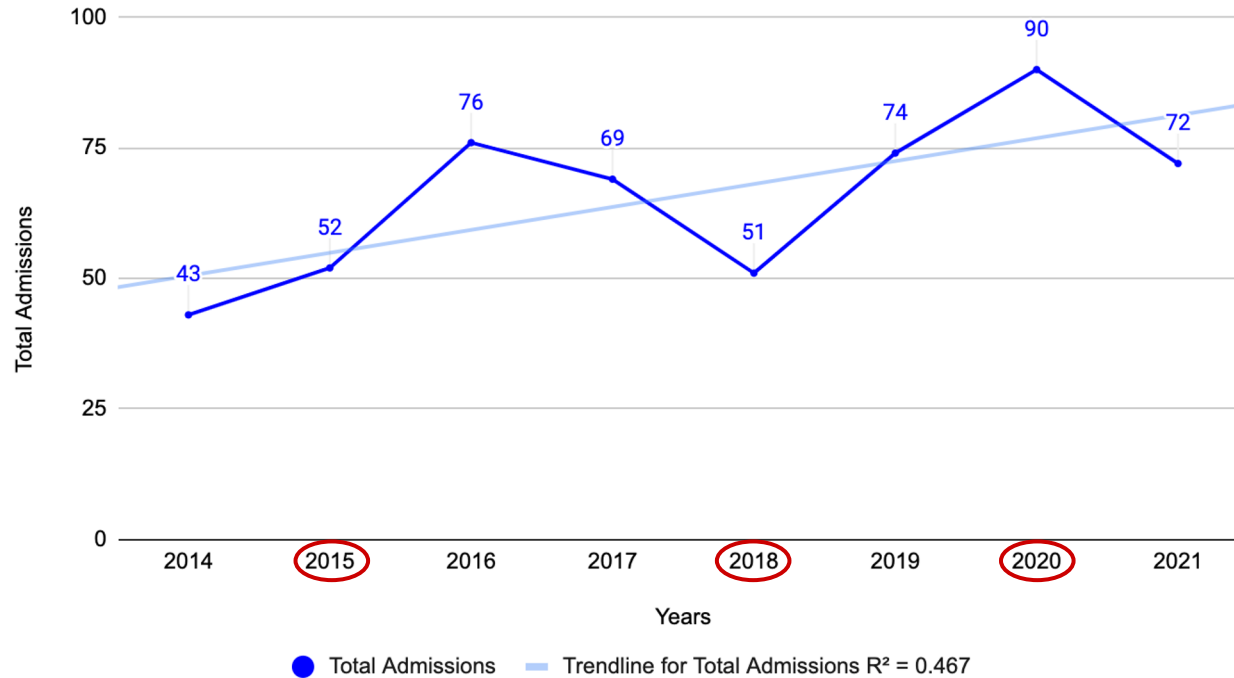
Dx: MDD

A: Ryan, 18, has h/o MDD and admitted inpatient for acute feelings of self harm. Cont. hospitalization for safety + observation

P: Keep under supervision, Start back up on medication XYZ, discharge on future date, f/u next week

Results:

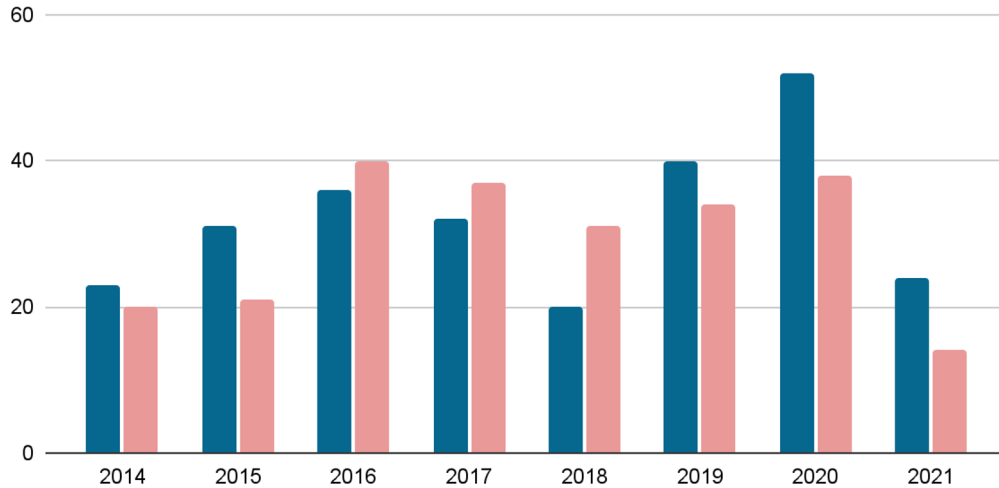
Total Admissions vs. Years



Results - Sex:

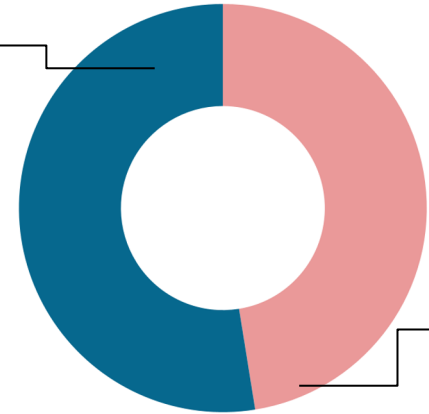
Sex vs. Years

Male Female



Count of Sex

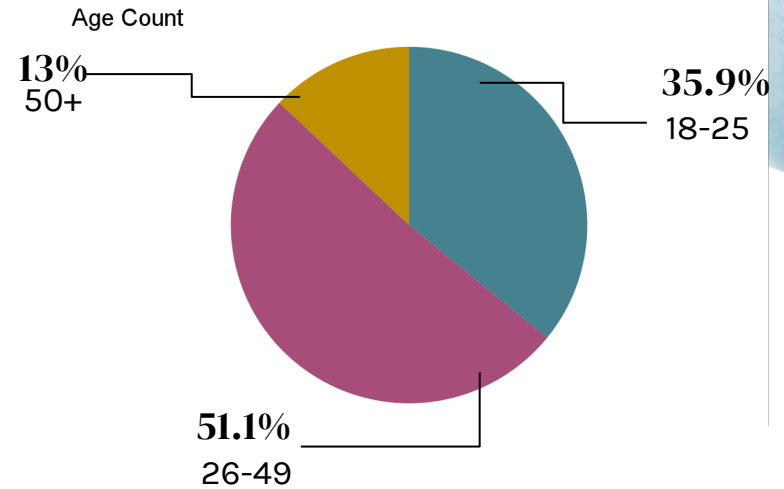
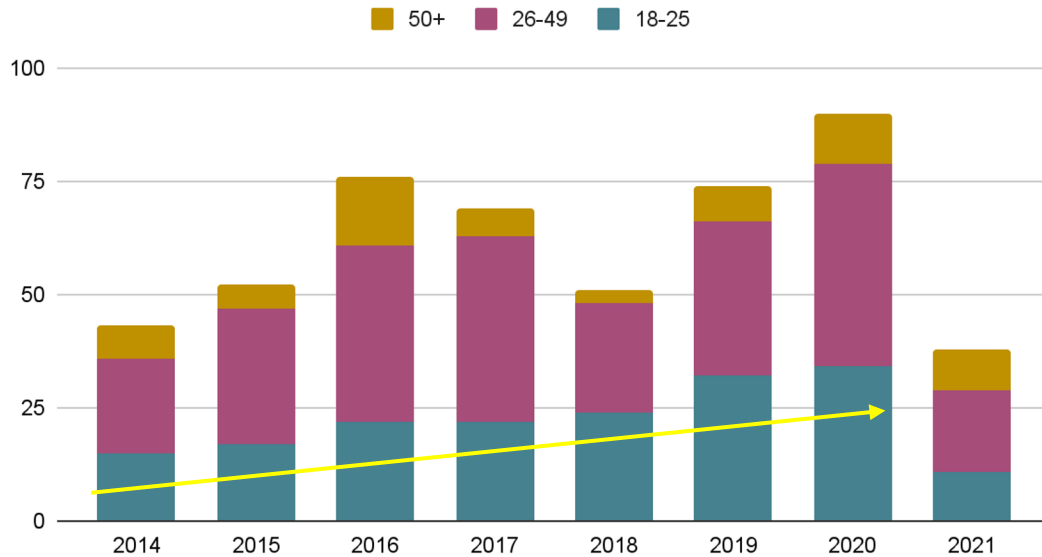
52.5%
Male



47.5%
Female

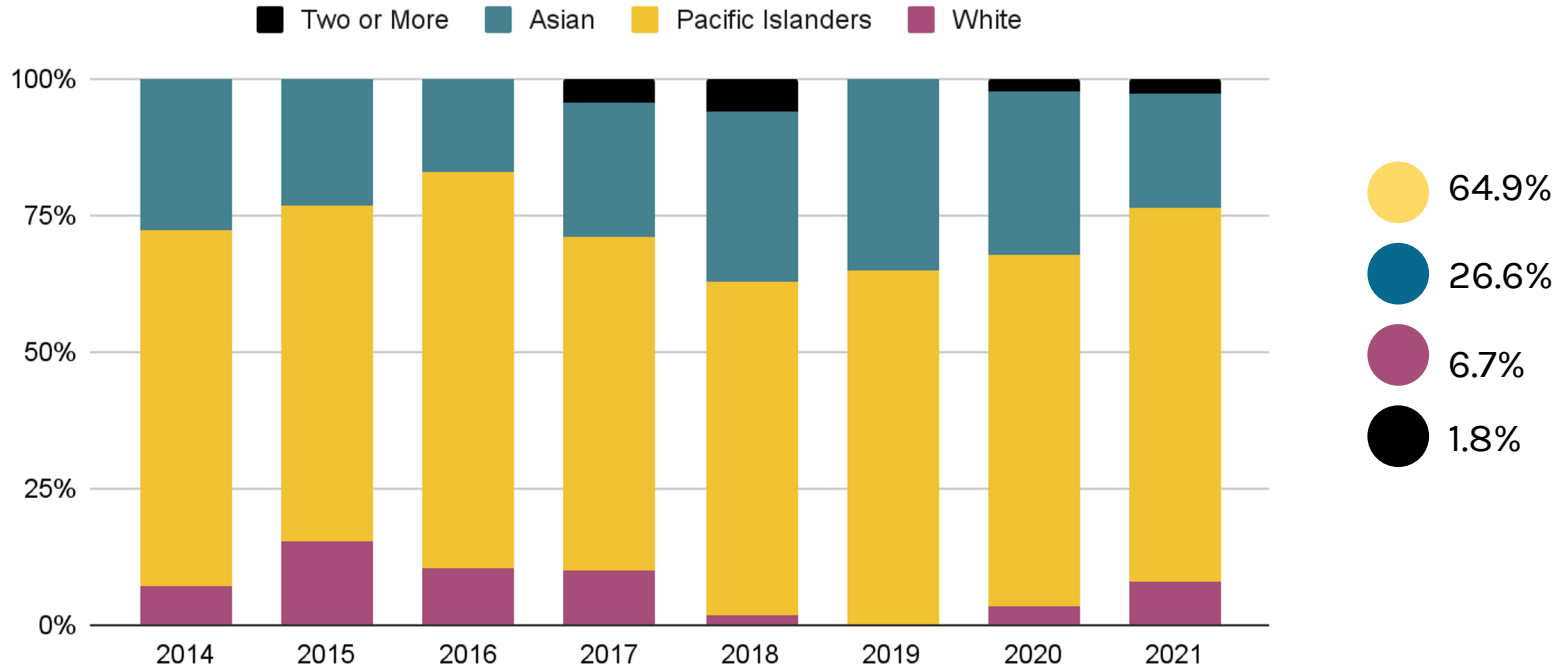
Results - Age:

Years vs Age

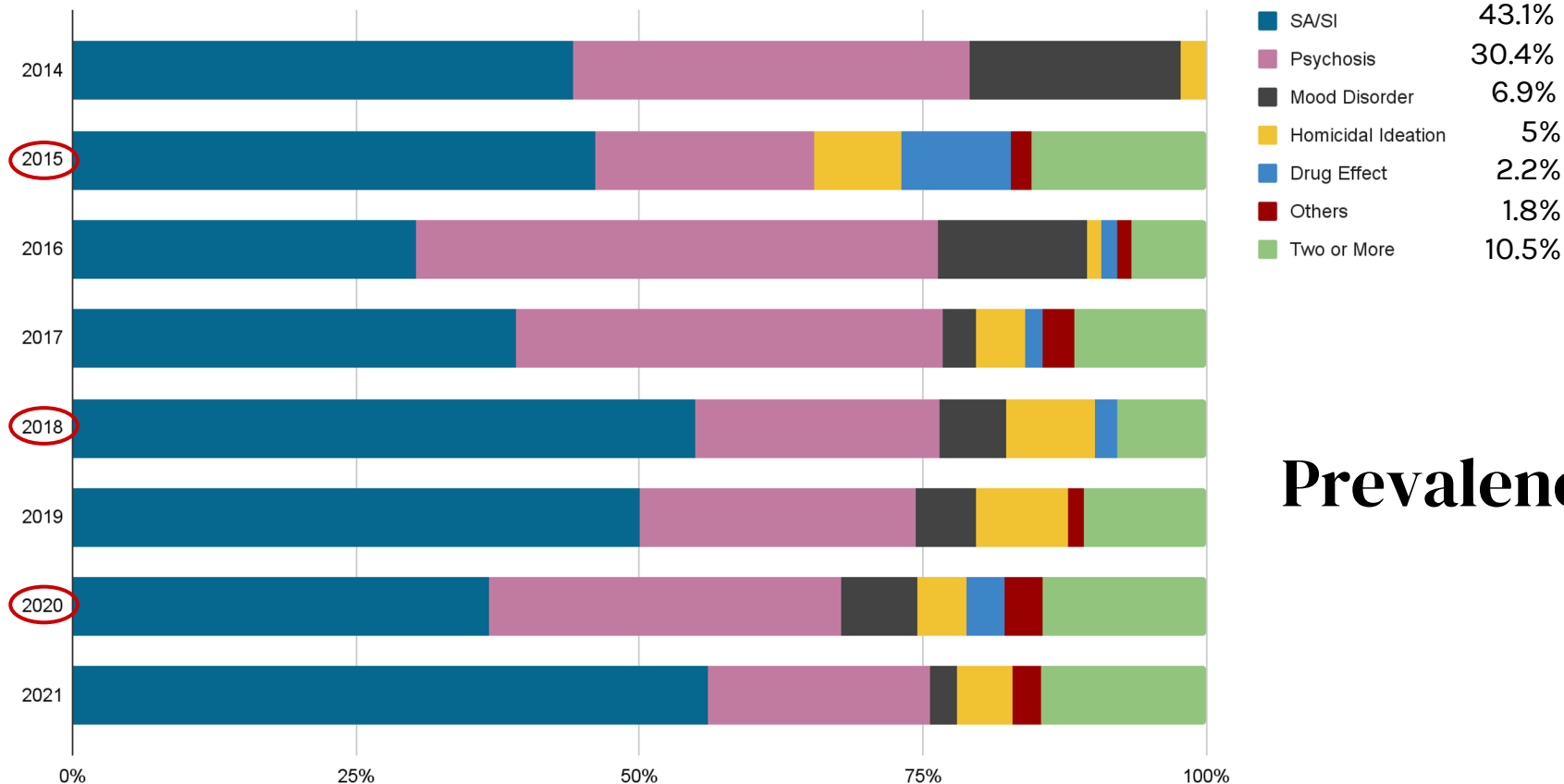


Results - Race:

Race vs Years



Years vs Type of Illness



Prevalence:



Significance:

- Overall slight general increase in admissions
- Peaks in admission will occur typically in the year after a community crisis
- Peaks in years 2016, 2019, and 2021
- Pacific Islanders are susceptible



Notes:

- Crises may only affect certain mental illnesses
 - Demographics may be underrepresented
- 

Future Directions:



Predictions

See if full 2021 data
matches



CGC

Corroborate data with
Community Guidance
Center



Outpatients

See if increase is
similar in outpatients

Sources

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