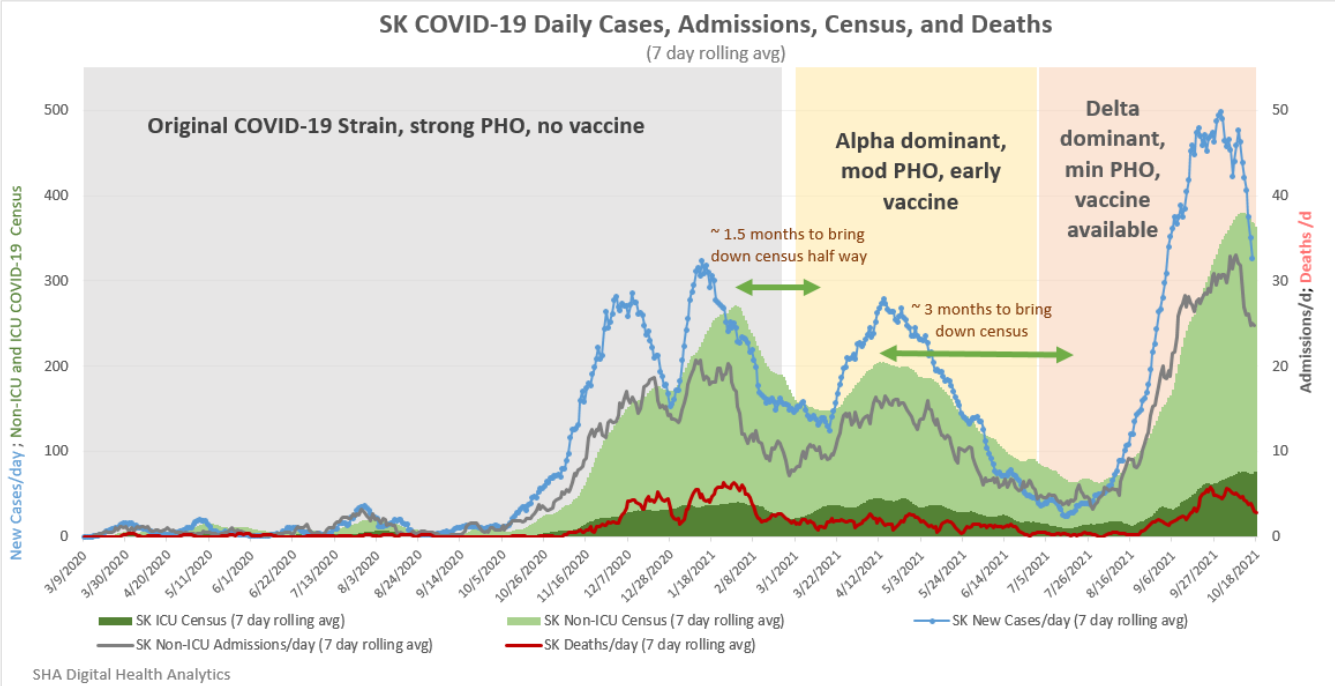


SASKATCHEWAN DATA ANALYTICS AND PROJECTIONS

October 20, 2021

Progression of COVID-19 in Saskatchewan

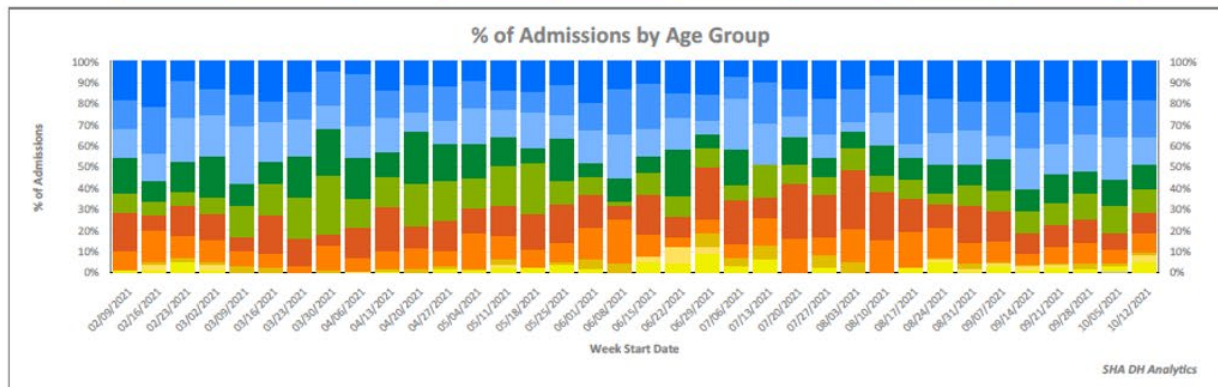
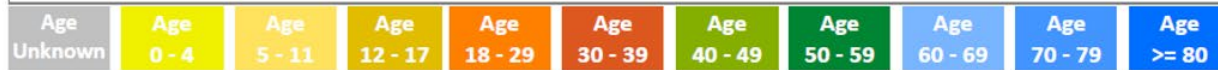
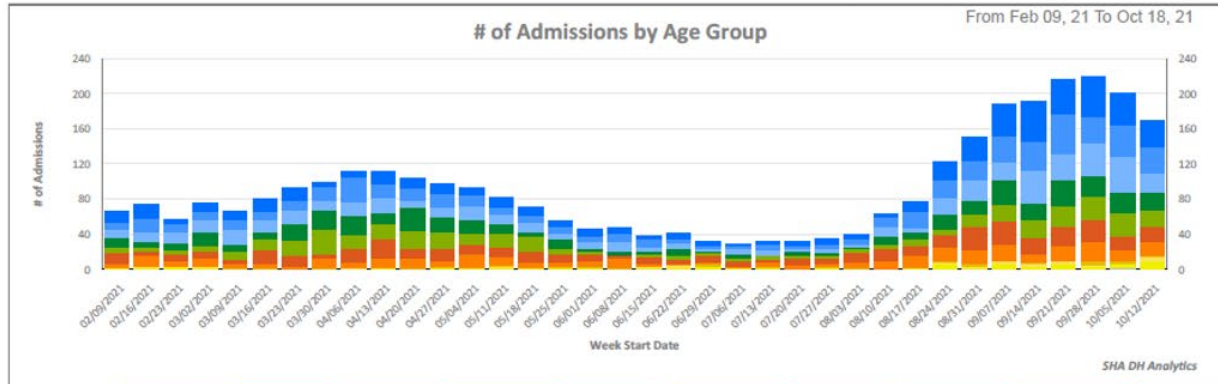


IF this is the worst of it,
IF it is decreasing and
IF it only takes 3 months to bring down current census, we will not be back to “normal” until start of 2022

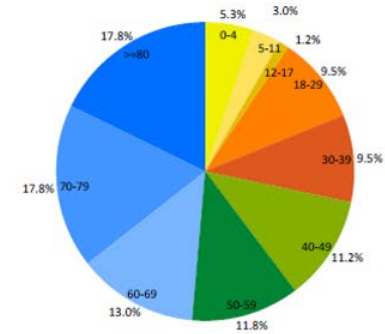
- This translates to:
- ~20,000 surgeries as well as other procedures cancelled
 - Worsening health conditions



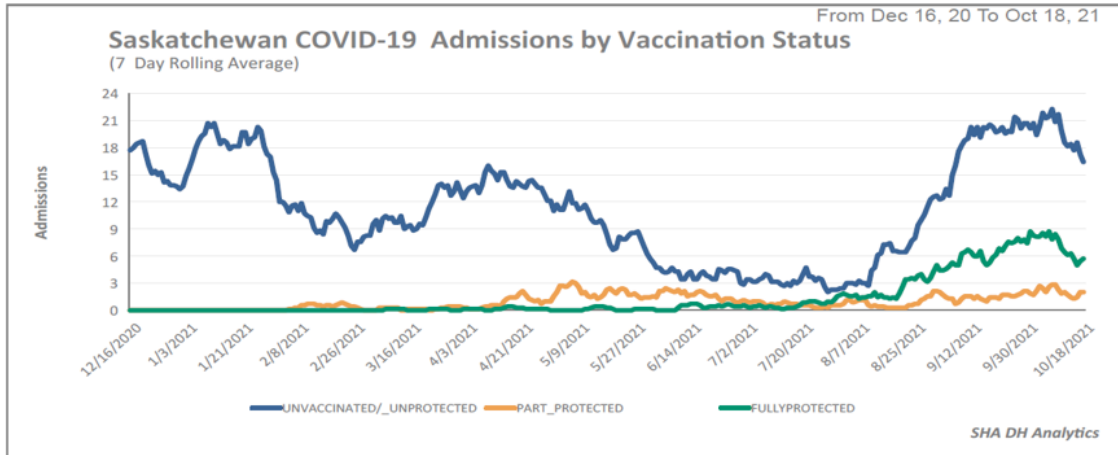
COVID-19 Admissions by Age group



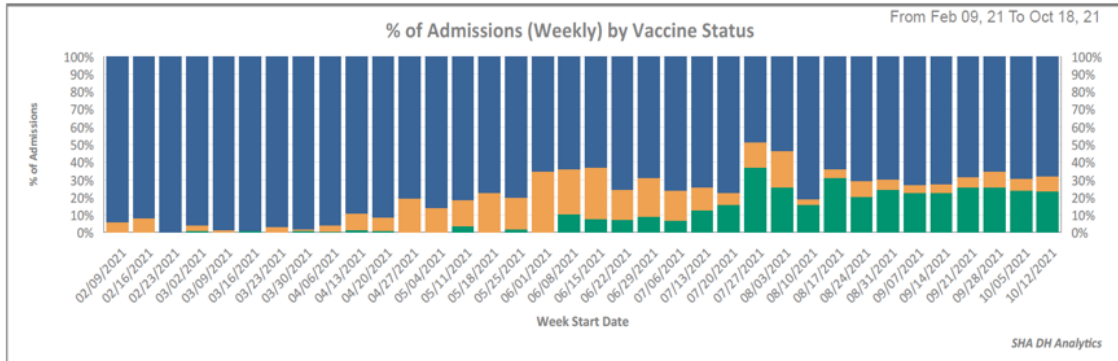
40% admissions < 50 years old



COVID-19 Admissions by Vaccine Status



	Last 7 Days		
	Unvaccinated/ Unprotected RA 7 Days	Partially Protected RA 7 Days	FULLY PROTECTED RA 7 Days
12-Oct-21	18.57	2.00	6.43
13-Oct-21	18.14	1.71	6.14
14-Oct-21	18.43	1.43	6.29
15-Oct-21	17.71	1.29	5.71
16-Oct-21	18.57	1.43	5.00
17-Oct-21	17.29	2.00	5.43
18-Oct-21	16.43	2.00	5.71



Week Start Date	Last 7 Weeks					
	Unvaccinated/ Unprotected		Partially Protected		Fully Protected	
	#	%	#	%	#	%
8/31/2021	105	69.5%	9	6.0%	37	24.5%
9/7/2021	136	72.7%	9	4.8%	42	22.5%
9/14/2021	138	72.3%	10	5.2%	43	22.5%
9/21/2021	148	68.5%	12	5.6%	56	25.9%
9/28/2021	143	65.3%	19	8.7%	57	26.0%
10/5/2021	139	69.5%	13	6.5%	48	24.0%
10/12/2021	115	68.0%	14	8.3%	40	23.7%

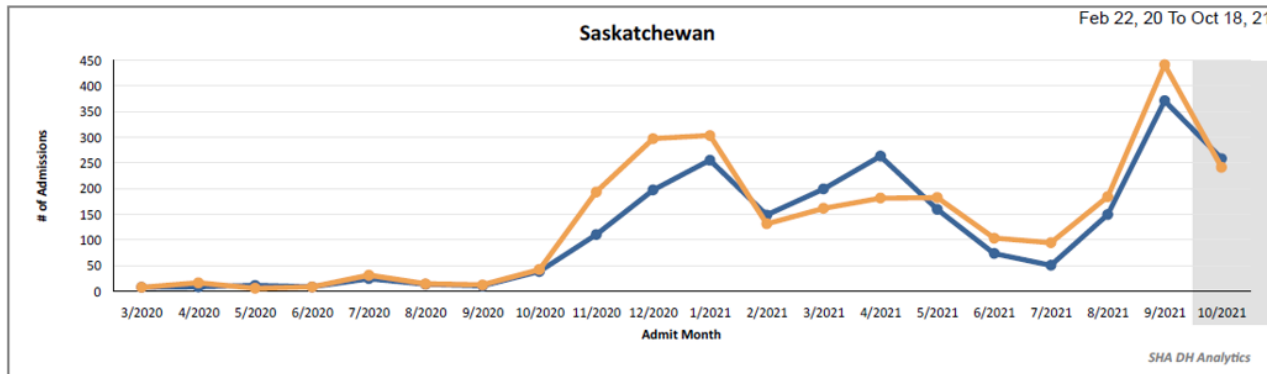
Unvaccinated/ Unprotected

Partially Protected

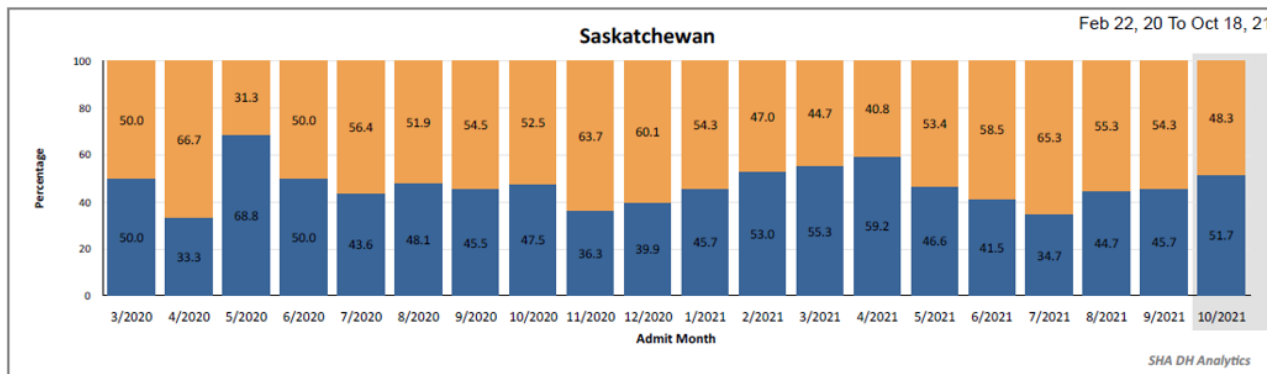
Fully Protected



First Positive COVID-19 Test on Admission to Hospital – Saskatchewan



48.3% of all COVID-19 admissions during October had their first positive COVID-19 test on or after admission to hospital.



Tested Positive ON or AFTER admission

Tested Positive BEFORE admission

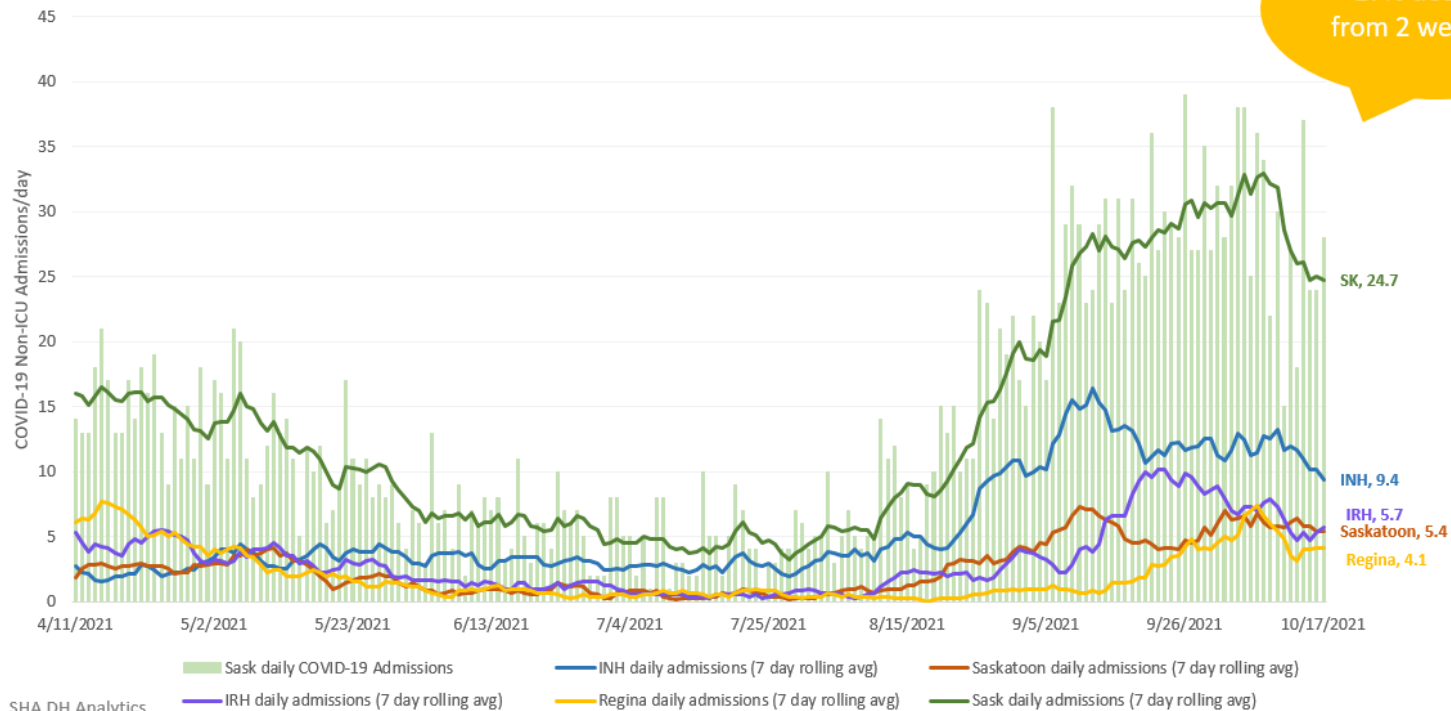
Note: - Shows all EOC (Episode of Care) Admissions before or on/after the 1st date tested positive.

Digital Health Analytics; Data source: RRPL, ADT, Panorama



Daily COVID-19 Hospital Admissions

COVID-19 Non-ICU Admissions per day
(7 day rolling average)



SHA DH Analytics

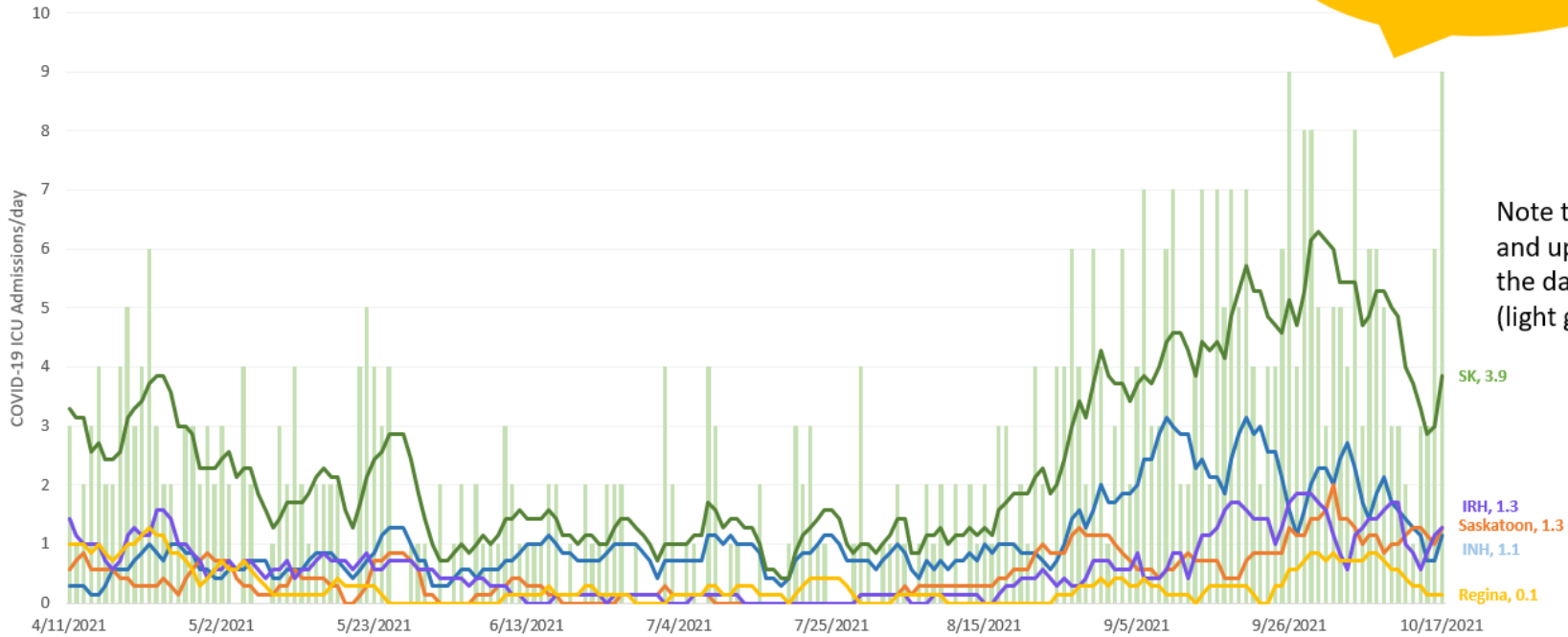
Digital Health Analytics; Data source: RRPL, ADT, Panorama;



Daily COVID-19 ICU Admissions

COVID-19 ICU Admissions per day
(7 day rolling average)

28% decrease
from 2 weeks ago

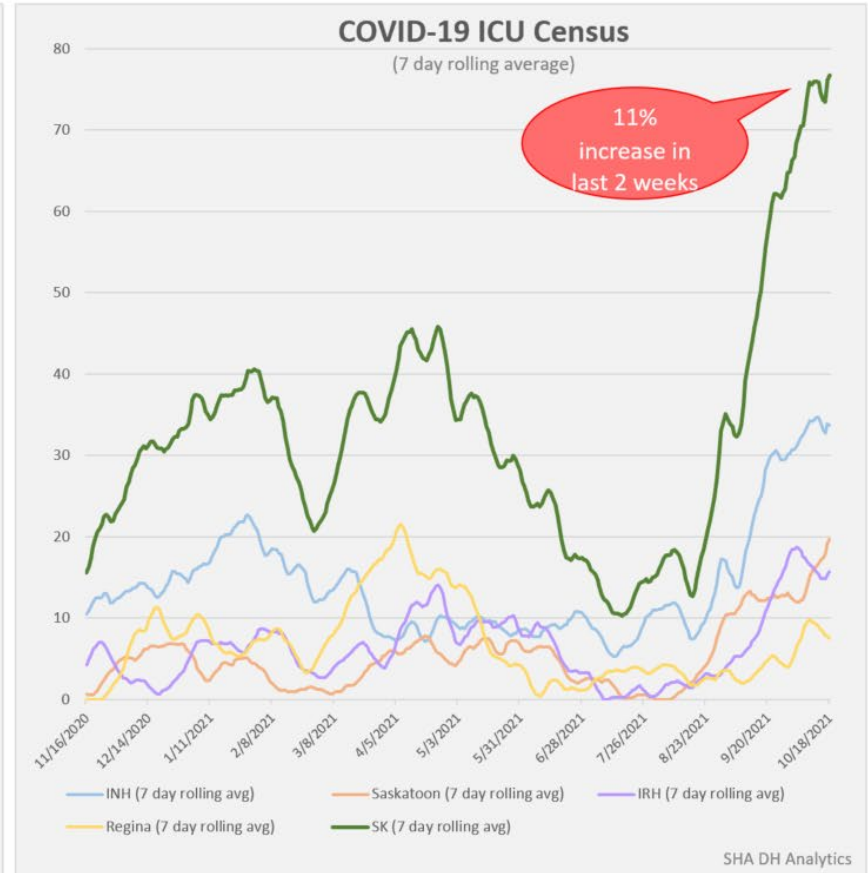
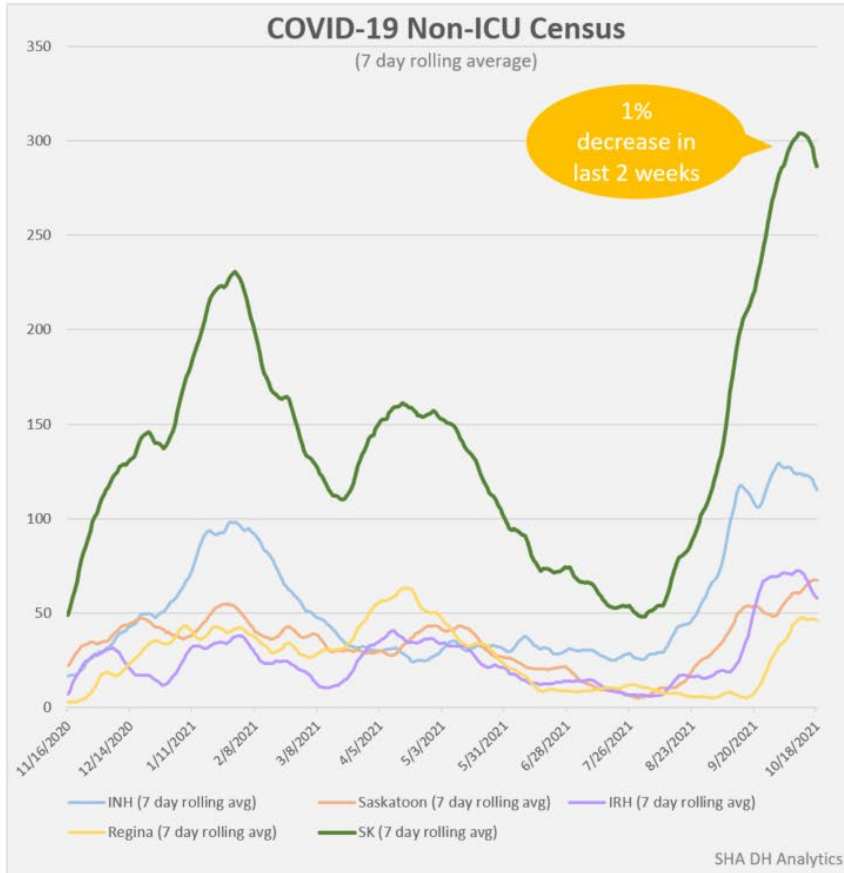


SHA DH Analytics

■ Sask daily COVID-19 Admissions
 — INH daily admissions (7 day rolling avg)
 — Saskatoon daily admissions (7 day rolling avg)
— IRH daily admissions (7 day rolling avg)
— Regina daily admissions (7 day rolling avg)
— Sask daily admissions (7 day rolling avg)



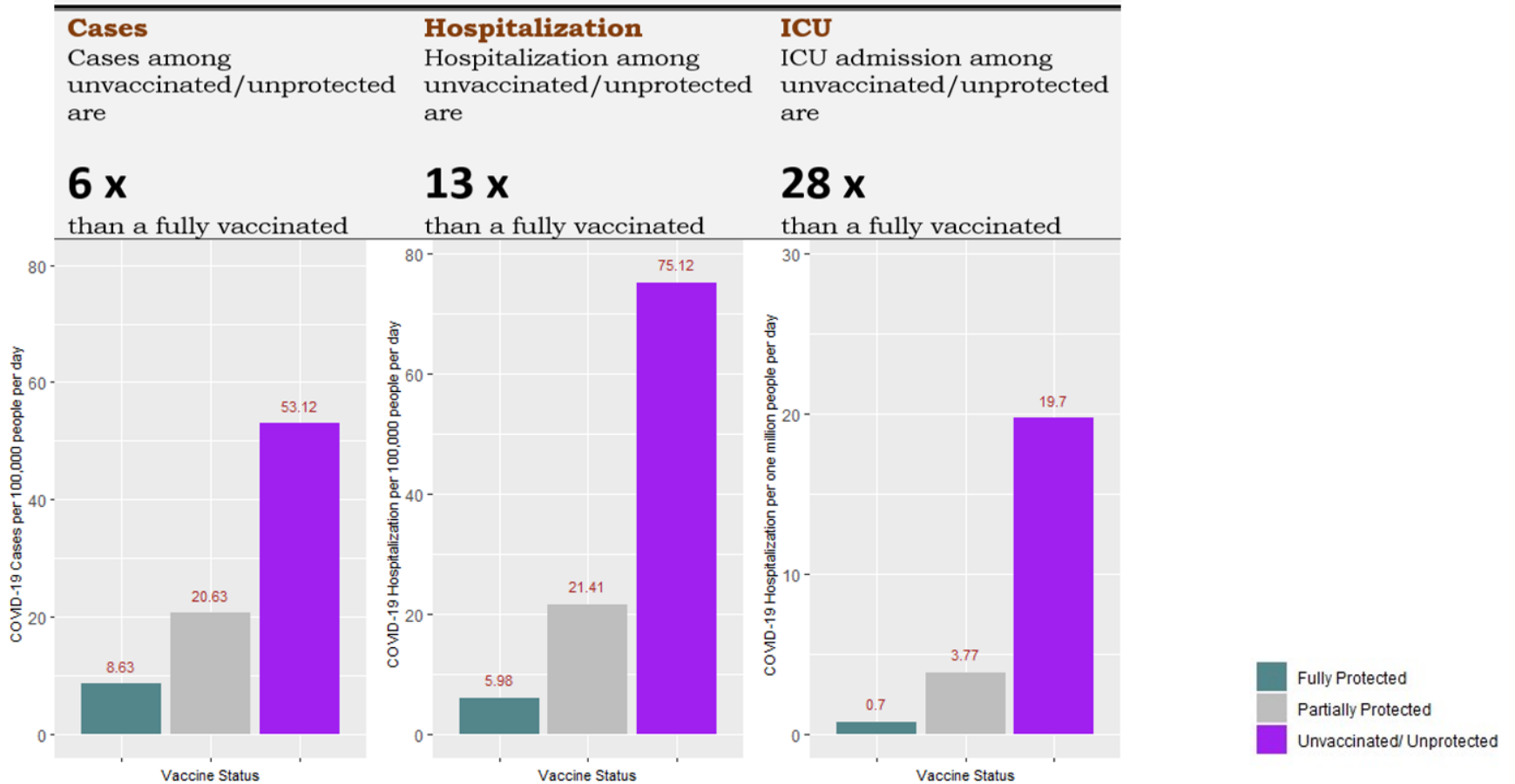
COVID-19 Non-ICU and ICU Census



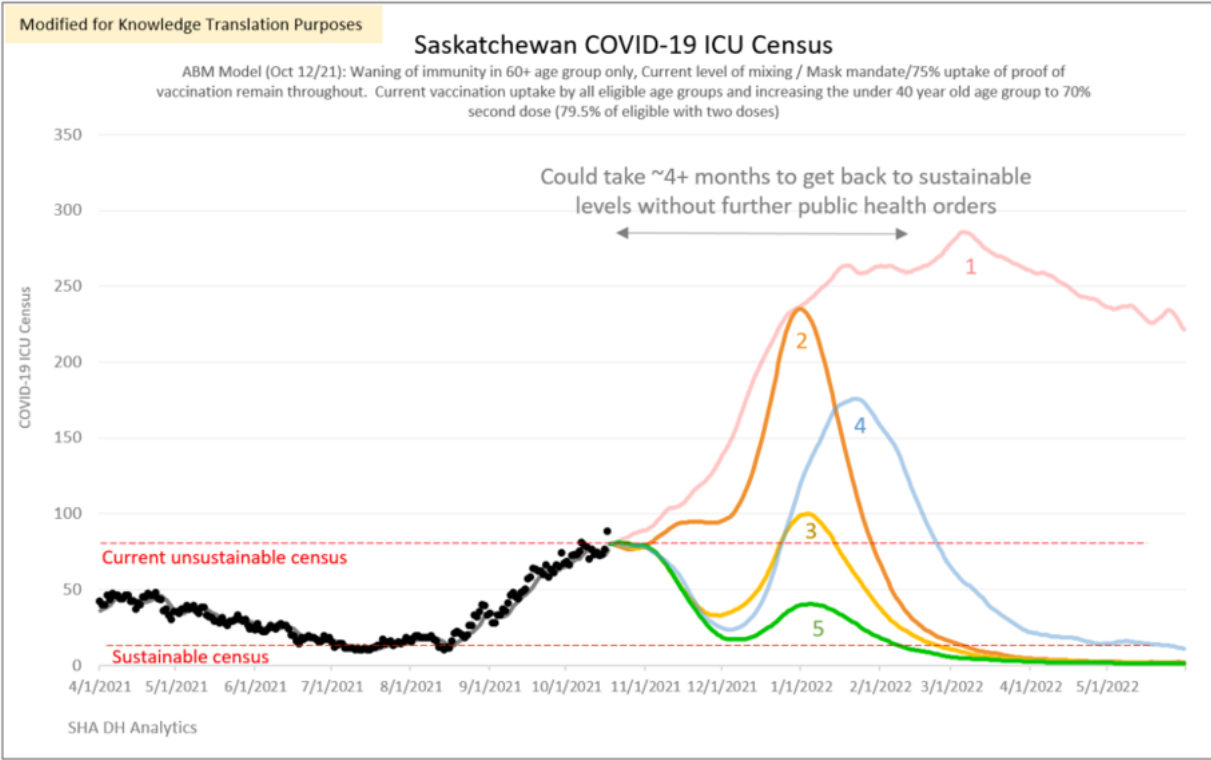
Digital Health Analytics. Data source: ADT, RRPL. Based on where patient resides, not admitted. Census represents all COVID patients on a given day, including admissions and discharges; it is not a point in time census. Out of province patients not included.



Relative Risk with Vaccination – Saskatchewan - Aug13/21 to Sep 13/21



Modelling Scenarios – Saskatchewan



- Scenarios
1. Current behaviour, no boosters (Oct 5 modelling results)
 2. Current behaviour, boosters to 60+ age group (6 months after 2nd dose)
 3. 14 day mixing reduction, boosters to 60+ age group (6 months after 2nd dose)
 4. 28 day mixing reduction, then “normal” mixing after, boosters to 60+ age group (6 months after 2nd dose)
 5. 28 day mixing reduction, boosters to 60+ age group (6 months after 2nd dose)
- Actual daily COVID ICU Census with 7 day rolling average line

Continue current state scenario (#2):

- Current mixing behaviour; Boosters given to 60+ age group

Decreased Population Mixing on Oct 15, 2021 (14 days (#3) vs 28 days (#5))

- Further reduction in how much people are in contact with each other (not a lockdown).
- Could include combination of: private and public gathering limits, capacity limits and work from home.
- Boosters given to 60+ age group

With this level of waning:

- Decreased mixing scenarios, ideally 28 days, brings down census faster (ie: less COVID cases, hospitalizations & deaths) and to sustainable levels earlier (ie: less cancelled surgeries)
 - Note: Benefit is lost if population mixing increases more than current levels after 28 day mixing reduction (# 4)
 - Need to go back to current mixing levels and keep mask mandate and POV after 28 day mixing reduction (#5)
- Rate of waning evidence still evolving with a lot of uncertainty. Modeling scenarios with slower waning has gradual declining, but still requires ~ 4 months to get to sustainable census if no further reduction in mixing.

The actions taken by the people of Saskatchewan collectively will determine the outcomes.

Simple measures reduce the risk of infection:

- **Mask in all public spaces**
- **Reduce close contacts**
- **Outdoors is better than indoors**
- **Wash your hands often**
- **Stay home with even the mildest symptoms and get tested**
- **Get fully vaccinated as soon as you are eligible**

COVID-19 information available at saskatchewan.ca/COVID19