



### BACKGROUND

- Saskatchewan (SK) has the highest rates of HIV in Canada, with an epidemic driven largely by injection drug use
- HIV care in Saskatoon is primarily accessed at the Positive Living Program (PLP) at the Royal University Hospital (RUH), a specialized acute care setting, and at the Westside Community Clinic (WSCC), a primary care community-based clinic
- The two clinic sites service to ~2000 persons living with HIV. Complementary, yet different care models, are exemplified in the respective care models
- This analysis provides an insight into the impact of COVID-19 on the two care models to identify gaps and priority areas unique to the HIV population

#### METHODS

- A retrospective chart review was conducted. Variables extracted for analysis include baseline characteristics at diagnosis, demographics, risk factor, laboratory, medication, and appointment data
- HIV clinical data was extracted from the electronic medical records (EMR), sourced from the EMR instances in the WSCC and the Positive Living Program (PLP) in the Division of Infectious Diseases, RUH
- Data time point period defined: 2019: May 1, 2019 April 30, 2020; 2020: May 1, 2020 – April 20, 2021; 2021: May 1, 2021 – April 15, 2022
- Inclusion criteria: 'Active' patients (have received at least one clinic visit with the data time point period); HIV diagnosis confirmed by Western blot; have received clinical care from care provider at either PLP or WSCC
- A descriptive analysis was conducted on 1987 cases, inclusive of 'Active', 'Inactive' and 'Deceased' patients
- Definitions of 'Cascade of Care': 'Total' = Number of active cases for time period; 'Diagnosis': Diagnosis date available; 'Engaged in Care': HIV-related appointment within calendar year; 'On ARVs': HIV medication prescribed within calendar year; 'Viral Suppression': Most recent viral load within time period between <200 copies/ml -> undetectable

# The Care Continuum Across HIV Clinics in Saskatoon, SK: Insights, Impacts, and Opportunities of the COVID-19 Pandemic

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On ARVs

Viral Suppression

### DATA

Figure 1: 2019 HIV Care Cascade (PLP and WSCC)

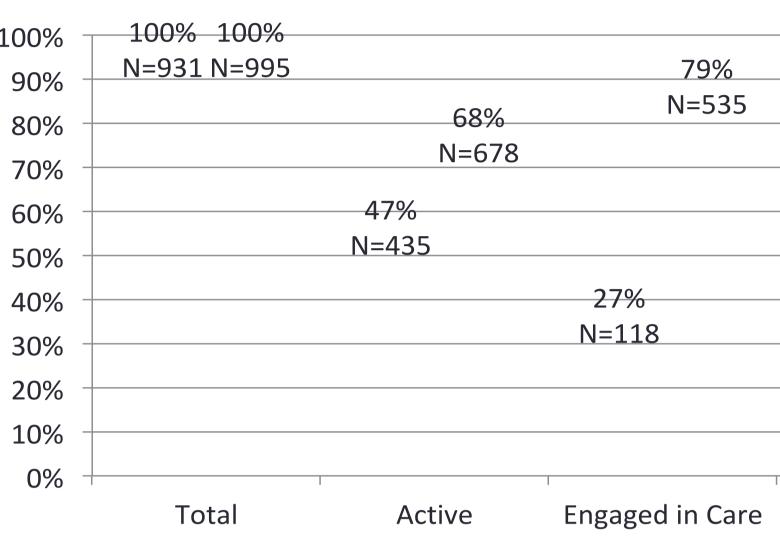
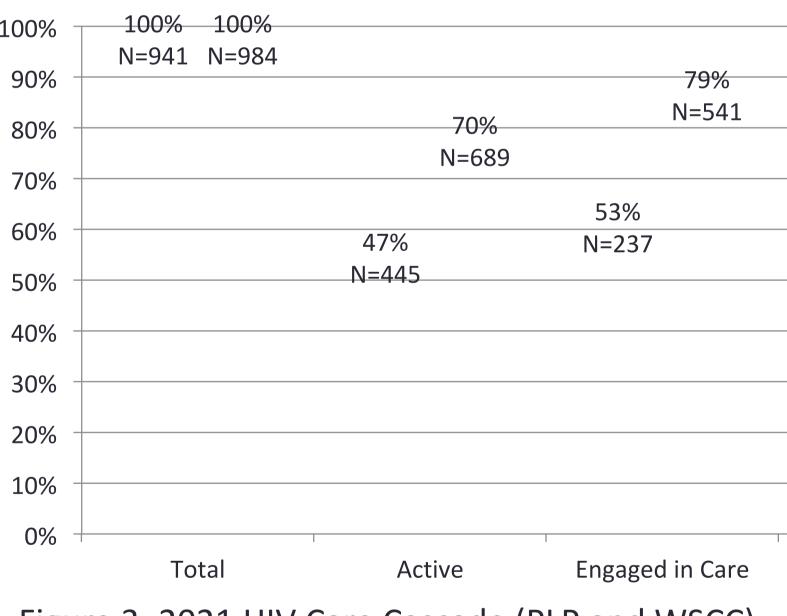
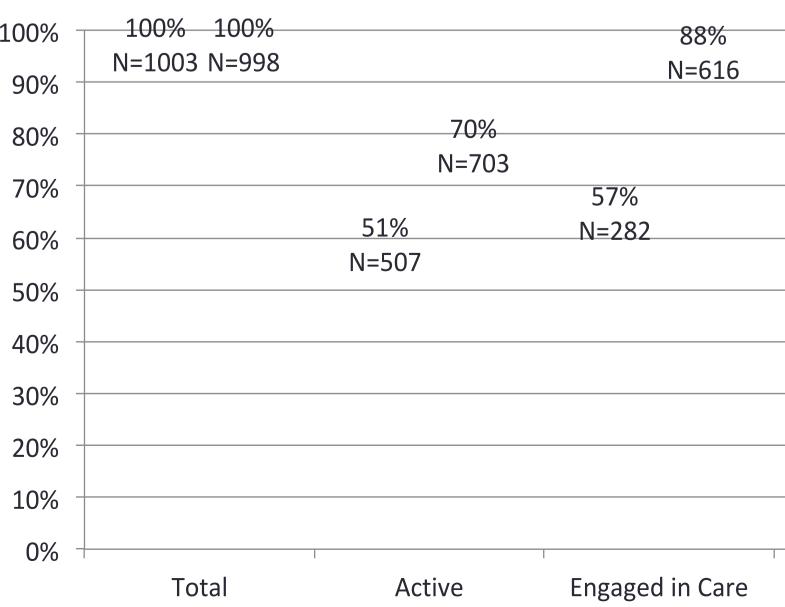


Figure 2: 2020 HIV Care Cascade (PLP and WSCC







## **CLINIC DEMOGRAPHICS**

#### Figure 4: PLP HIV Patient Dem

5	67% N=291 N=424	52% 47% N=354 N=205	PLP WSCC 40% 35%	35% N=182 65% N=339 Figure 5: PLP HIV Risk Factor x Ge
ire C)	On ARVs	Viral Suppression	30% 25% 20% 15% 10% 5% 0%	27% 19% 19% 16% 11% 8% 6% 0.3% 0.3%0.7% 0.3 Blood Endemic Hetero IDU MSM MTCT C
re	66% N=454 56% N=251	46% N=337 N=206 Viral Suppression	PLP         WSCC	<ul> <li>FINDINGS</li> <li>The PLP, offering care in an a 67% - 45% during 2019 - 202 47% - 31% during the COVID</li> <li>Offering community-based of 79% - 88% during 2019 - 202 over the same time period</li> <li>Patient population are disting heterosexual risk and IVDU wanaged in by the PLP acute</li> </ul>
C)	73% N=512 45% N=227	50% N=353 31% N=157	PLP WSCC	<ul> <li>Signature, and a daption of the study has been reviewed and approximation.</li> <li>Signature care setting, CO and access to care</li> <li>An evaluation and adaption required to meet the growing an increase in community-back</li> </ul>



nographics			Figure 6: WSCC HIV Patient Demographics							
Male Female							51% N=360		Male Female	
ender		60% 50%	gure	e 7: WS	CC HIV F	Risk Fac	ctor x G	ender		
3‰.3% 0.3% <sup>1.5%</sup>	Male Female	40% 30% 20% 10% 2%	1%	1% 0%	11%		4% 0%	0% 0%	<ul><li>Male</li><li>Female</li></ul>	
Other Unknown		0% + Bloc	od	Endemic	Hetero	IDU	MSM	Other	1	

care in an acute setting, marked a decrease in those on ARVs from 2019 – 2021, corresponding to a decrease in suppression rates from the COVID-19 pandemic

ity-based care, the WSCC increased the engagement in care from 2019 – 2021, with an increase in patients on ARVs from 64% - 73%

are distinct between the two clinic settings, with primarily ind IVDU within the community setting, and a range of risk factors PLP acute and specialized care setting

in access and provision of health care during the COVID-19 nmunity-based model continued to maintain consistent clinical ovide ongoing patient support

setting, COVID-19 caused a significant impact on clinical outcomes

adaption of the HIV care models providing care in Saskatoon is the growing needs and demands of the HIV population, including munity-based services and outreach supports

reviewed and approved by the University of Saskatchewan Research Ethnic Board (Bio 3224)