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Presenter Disclosure




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Disclosure
None to Disclose




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In the
Corner
with...




Dr. Lynora Saxinger
Co-Chair
Scientific Advisory Group
Alberta Health Services


Risk of COVID-19 amongst HCWs



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Scientific Advisory Group COVID-19 Recommendations

novel coronavirus (COVID-19)

AHS' Scientific Advisory Group is connecting with clinicians, operational leaders, researchers and other experts to review emerging evidence and guidance of national and international bodies to provide information for focused areas of healthcare in relation to COVID-19. These resources are created to provide research informed advice to AHS physicians, staff, patients and families. Reports are updated frequently based on emerging evidence or concerns.

COVID-19 Resources for AHS Staff & Health Professionals

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COVID-19 Scientific Advisory Group Rapid Response Report

Key Research Questions: 1) Among countries who are past their initial peak of COVID-19 cases, what proportion of total cases were in healthcare workers (HCW), and what is the estimated proportion of the total number of HCWs who developed COVID-19 from presumed occupational exposure?
2) Is there any evidence that household members of HCWs are at elevated risk of COVID-19 disease, and if so, are there guidelines for mitigating that risk?



May 4, 2020

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Coronavirus: Doctor death toll in Italy rises to 150

Another physician has died says FNOMCEO



Redazione ANSA

ROME

24 April 2020 18:05 NEWS

- 86% of physicians felt they had a greater than 50% chance of acquiring COVID19 during the coming months*

* Informal social media poll

May 4, 2020

https://www.ansa.it/english/news/2020/04/24/coronavirus-doctor-death-toll-in-italy-rises-to-150_5fc712eb-9b2f-40a0-8434-1105f1ea64ca.html

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	Country/ Region	Total HCW Cases	Total HCWs	General Population Cases	2018 General Population	HCW risk %	General population risk %
High Risk	Italy	15,314	587,211	124,063	59,844,069	2.61%	0.21%
	China (Hubei)	1,809	75,075	65,993	7,480,925	2.41%	0.88%
	Spain	15,433	448,641	94,805	46,275,109	3.44%	0.21%
	Overall high-risk	25,600	1,110,927	284,861	113,600,103	2.93%	0.25%
Low Risk	China (non- Hubei)	246	6,389,978	14,463	1,378,784,022	0.004%	0.001%
	Philippines	501	590,318	2,517	106,061,602	0.085%	0.003%
	Indonesia	23	760,699	1,963	266,902,731	0.003%	0.0007%
	Overall low-risk	770	7,740,996	18,943	1,751,748,354	0.010%	0.001%
	Alberta	137	103,467	4,307	4,287,068	0.13%	0.10%

May 4, 2020

- Source of infection (work, household, community) not reported
- Difficult to determine HCW denominators – hard to determine risk for specific HCW types

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Table 1. Alberta SARS-CoV-2 testing and COVID-19 testing and case data broken down by Alberta Health Services employees, physicians and the general non-healthcare worker population.

Group	Number	# tested	% tested	# (%) of test results positive for SARS-CoV-2	# (%) of test positives from occupational exposure	Occupational risk % (PAR)	Overall risk % (PAR)
Total AHS Employees* (non-physician)	103,467	15,603	15.1%	137 (0.9%)	12 (8.8%)	0.01%	0.13%
AHS Physician	7,408	933	12.6%	22 (2.4%)	N/A **	N/A	0.30%
General Population (non-HCW) ***	4,287,068	122,386	2.9%	4,307 (3.5%)	N/A	N/A	0.10%
Total AB Population	4,397,816	138,922	3.2%	4,469 (3.2%)	N/A	N/A	0.10%

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** 2 cases under investigation. 20 cases linked to single community outbreak

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Key Messages from the Evidence Summary

- Alberta WHS dashboard indicates a current absolute occupational risk of COVID-19 in HCW to be 0.01%, with an overall HCW risk of 0.14% (vs 0.1% risk in the community)
 - May be explained in part by higher rates of testing in the HCW population (15% HCW tested versus 2.9% of the general population tested), and differences in travel patterns amongst HCWs prior to travel restrictions
- There are still no available data on the transmission of COVID-19 from infected HCWs to household members outside case reports
 - Recent publication suggested a household attack rate of 4.7%, supporting prompt household self isolation with any symptoms to further reduce risk (Cheng et al., 2020)

May 4, 2020



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COVID-19 Self-Assessment >

Info for Albertans >

Info for Health Professionals >

Translated Resources >

Clinical Guidance from Leaders

- [Key Research Question: What Is the Evidence For & Risks of Using Hydroxychloroquine \(HQ\) as a Treatment & Prophylaxis for SARS-CoV-2?](#)
- [Response to Media Reports about COVID-19 Virus Being Airborne](#)

Signage & Posters

- [View Full List](#)

Resources

- [COVID-19 FAQs for AHS Staff](#)
- [COVID-19 Guidance Volunteer Resources](#)
- [COVID-19 Public Information](#)
- [COVID-19 Orders & Legislation](#)
- [COVID-19 Research Opportunities -bethecure.ca](#)
- [Healthcare Worker Self-Assessment Tool](#)
 - [Guidance While Waiting for a Return Call](#)
- [Information for Researchers](#)
- [IPC Emerging Issues](#)
- [Scientific Advisory Group Rapid Reviews](#)
- [Testing & Self-Isolation Criteria](#)
- [Triage Screening Criteria](#)

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For more information visit

- <https://www.albertahealthservices.ca/assets/info/ppih/if-ppih-covid-19-hcw-risk-rapid-review.pdf>