Community engagement & Clinical aspects of mpox

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June 23, 2022



I live and work on the traditional territories of the Mississaugas of the Credit, Anishnabeg, Chippewa, Haudenosaunee and Wendat peoples.



Disclosures

- My institution has received research grants for investigator-initiated studies from Abbvie, Gilead, and Viiv Healthcare
- I am a Site PI for clinical trials sponsored by Glaxo Smith Kline
- I receive salary support from the Canada Research Chairs program











Community mobilization





Regional HIV/AIDS Connection













Community education efforts



Monkeypox: What We Know

"Can we say gay?" Silence vs stigma vs community engagement **OTV**NEWS

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HEALTH News

Monkeypox fears could stigmatize LGBTQ2S+ community, expert says



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Community engagement: Support during isolation period



June 6, 2022

The Honourable Jean-Yves Duclos, Minister of Health, Government of Canada House of Commons Ottawa, Ontario K1A 0A6

Re: Emergency supports and services in response to monkeypox infection

Dear Minister Duclos,

The recent transmission of monkeypox in Canada poses an urgent public health threat, and specifically among marginalized communities, including gay, bisexual, and queer men who have sex with men. As of June 3, 2022, there have been 77 confirmed cases in Quebec, Ontario, and Alberta, and the virus appears to be spreading locally within Canada. We are writing to call for the immediate creation of emergency financial and housing supports, as well as wrap-around services (e.g. food and/or medication delivery) for people who need to be isolated for confirmed or suspected monkeypox infection, as part of a comprehensive response by the Government of Canada to this rapidly evolving epidemic.



Le 6 juin 2022

L'honorable Jean-Yves Duclos, ministre de la Santé Chambre des communes Ottawa, Ontario Canada K1A 0A6

Objet : Soutien et services d'urgence en réponse à la propagation de la variole du singe

Monsieur le Ministre Duclos,

L'arrivée récente de la variole du singe au Canada constitue une menace urgente pour la santé publique, et plus particulièrement pour les communautés marginalisées, notamment les hommes gais, bisexuels, queer et d'autres hommes ayant des rapports sexuels avec des hommes. En date du 3 juin 2022, 77 cas ont été confirmés au Québec, en Ontario et en Alberta, et le virus semble se propager localement au Canada. Nous vous écrivons pour vous encourager à mettre en place une aide financière et une aide au logement d'urgence, ainsi que des services d'accompagnement (p. ex. livraison de nourriture ou de médicaments) pour les cas d'infection à la variole du singe, soit confirmés ou présumés, dans le cadre d'une réponse gouvernementale compréhensive pour adresser cette épidémie qui gagne rapidement en ampleur.



FOREIGN PRESS ASSOCIATION, AFRICA

P.O. BOX 8021-00100 NAIROBI, KENYA <u>info@foreignpressafrica.org</u> <u>www.foreignpressafrica.org</u>

May 21, 2022 RE: OUR STATEMENT ON USE OF IMAGES OF BLACK PEOPLE TO DEPICT OUTBREAK OF MONKEYPOX IN EUROPE AND NORTH AMERICA.

The Foreign Press Association, Africa registers its displeasure against media outlets using images of black people alongside stories of the monkeypox outbreak in North America and the United Kingdom.

According to the World Health Organisation Monkeypox is a zoonotic disease caused by



Mpox image atlas in development





Community engagement: Vaccine rollout

- Input into PrEP eligibility
- Acceptability
- Importance of barrier-free access
- Emphasizing equity considerations





Agence de la santé publique du Canada





Clinical Presentation

Traditional teaching on natural history

Stage	Incubation period	Fever stage	Rash stage	Recovery
Timeline	5-21 days	1-4 days	2-4 weeks	Days to weeks
Clinical findings		Enanthem, Lymphadeno- pathy near end	Macule \rightarrow Papule \rightarrow Vesicle \rightarrow Pustule	Crusted and healing
Infectivity	Nil	Low	High	Nil

Rash of Monkeypox





Lesions at site of inoculation





Lesions at site of inoculation



Lesions at site of inoculation





Local lymphadenopathy



Cervical

Inguinal

Disseminated rash – multiple stages at once



Disseminated rash – lesion evolution



Disseminated rash





Involvement of palms and soles



\$ym pto m	Confirmed n (%)	Probable n (%)	Suspect n (%)	Total n (%)
Rash	28 (84.8)	4 (36.4)	9 (26.5)	41 (71.9)
Fever	19 (57.6)	5 (45.5)	6 (17.6)	30 (52.6)
Oral/genital lesions	19 (57.6)	3 (27.3)	3 (8.8)	25 (43.9)
Myalgia	17 (51.5)	3 (27.3)	4 (11.8)	24 (42.1)
Headache	14 (42.4)	4 (36.4)	5 (14.7)	23 (40.4)
Swollen lymph nodes	20 (60.6)	2 (18.2)	3 (8.8)	25 (43.9)
Fatigue	16 (48.5)	3 (27.3)	4 (11.8)	23 (40.4)
Chills	16 (48.5)	2 (18.2)	5 (14.7)	23 (40.4)
Sorethroat	7 (21.2)	2 (18.2)	4 (11.8)	13 (22.8)
Sweating	7 (21.2)	3 (27.3)	2 (5.9)	12 (21.1)
Back pain/back ache	4 (12.1)	3 (27.3)	2 (5.9)	9 (15.8)
Other*	5 (15.2)	2 (18.2)	3 (8.8)	10 (17.5)

Table 2. Predominant symptoms reported by monkeypox cases by case classification

*Note: other symptoms include: prostration (exhaustion), external abscesses, coryza (runny nose), cough, and general malaise.

Differential diagnosis

Genital ulcer disease	Pharyngitis	Systemic manifestations + rash
 Primary syphilis 	 Mononucleosis 	• VZV
 HSV-1 or 2 LGV Chancroid (<i>H. ducreyi</i>) 	 Group A Strep HIV SARS-CoV-2 	 Enterovirus (Hand foot mouth) Disseminated gonococcus HIV

• Consider co-infections: Gonorrhea, chlamydia, syphilis, HIV, hepatitis

Clinical challenges

- Diagnostic delays; empiric Rx
- Serology not available
- Analgesia esp. Proctitis
- Anxiety

Complications

- Sepsis
- Encephalitis
- Keratitis
- Secondary bacterial infection bronchopneumonia
- Myocarditis
- Severe pharyngitis (?esophagitis) impinging on airway, swallowing

- Risk factors for more severe disease?
 - HIV status?
 - Young age
 - Pregnancy



CASE RECORDS of the MASSACHUSETTS GENERAL HOSPITAL

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Case 24-2022: A 31-Year-Old Man with Perianal and Penile Ulcers, Rectal Pain, and Rash

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About

We are an interdisciplinary research team dedicated to bringing together community, academic, clinical, and policy partners to find and implement new and better options for HIV and STI treatment and prevention.



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