

MEMORANDUM

PHD-C 7-2020

Subject: COVID-19 Response and Business Continuity in Public Health & Emergency Services (September 2020)

Date: September 8, 2020

To: Public Health & Social Services Committee

From: M. Mustafa Hirji, Medical Officer of Health & Commissioner (Acting)

Current Status as of August 27, 2020

- The latest updates including statistics can be found at <https://niagararegion.ca/covid19>
- After the increase of cases beginning in mid-July whereby cases increased from approximately 2 cases per day to 5 cases per day, cases stabilized, and have been driven down to 1–2 cases per day. This blunting of a possible surge of infections is likely due to the aggressive case management and contact tracing that Public Health has prioritized since late March, coupled with the ongoing restrictions on business and services that limit interaction, as well as personal behaviours that protect individuals and those around them.
- As we try to find the balance between a reopened economy, ongoing surges of cases of COVID-19 similar to the one seen in late July, followed by attempts to bring them back under control are to be expected.
- Success in bringing future surges under control are not guaranteed. Multiple jurisdictions around the world are struggling with second waves, with countries such as Australia, New Zealand, and China re-imposing shut-downs of businesses and services; South Korea is experiencing a third wave, and a third iteration of shutting down businesses and services. Notably, many countries experiencing second or third waves are in the Northern Hemisphere and in the peak of their summer, highlighting that a second wave can happen *at any time*, and will not wait for the Fall. British Columbia is a prime example of a larger second wave happening in the middle of the summer (Figure 1).
- Until there is broad immunity throughout the population, COVID-19 will circulate more as we open society more. It remains critical to re-emphasize the importance of physical distancing, hand hygiene, wearing face coverings when one cannot keep distance from others, and being very mindful of one's own

health so one can get tested if any symptoms develop. All of these measures protect a person, and the community more widely. And all of these measures must be practiced now, and not only once the Fall arrives.

- Outbreaks in long term care homes and retirement homes continue to be few in number with few cases. Simulations of outbreaks are now being run with these homes to stress test their outbreak practices and help them prepare for the eventuality of a future outbreak.
- With the impending re-opening of schools, there is a particular focus in Public Health to support school re-opening. Due to Provincial direction and the promise of new funding, an additional 16 school health nurses are being hired to support schools through the pandemic. Existing school health nurses who had been redeployed to support COVID-19 response, are returning to the School Health program to resume supporting schools, their students, their parents, and their teachers.
- A dedicated call centre line has now been created to support schools and child care centres with their reopening's.
- More generally, as businesses resume operations, Public Health is looking to resume operations of many services where staff were redeployed to support the COVID-19 response. In order to support the ongoing pandemic response at the same time as resuming services, the Ministry of Health is funding the incremental costs of increased staff to fulfill both mandates.
- Nonetheless, other Boards of Health in Ontario are also reinvesting further into Public Health to ensure a strong pandemic responses, as well as the continuation of robust program to support the health of the public from all other health issues which have been exacerbated by the Pandemic. Hamilton's Board of Health, for example, has authorized an additional 92 staff be hired in Public Health temporarily. York Region has authorized the hiring of 172 additional Public Health staff for 2 years, as well as 8 new permanent staff. Many other local public health agencies are also increasing staffing (e.g. Ottawa, Halton Region, Waterloo Region, Peel Region) with some adding additional permanent staff to complement (e.g. Toronto). Niagara Region Public Health is at risk of struggling to recruit quality staff relative to local public health agencies who are hiring permanent positions, given the intense competition to hire staff currently. The impact of this could be exacerbation of health problems in Niagara relative to our peers.
- In Emergency Services, call volumes for EMS have largely returned to normal levels business and life resumes.

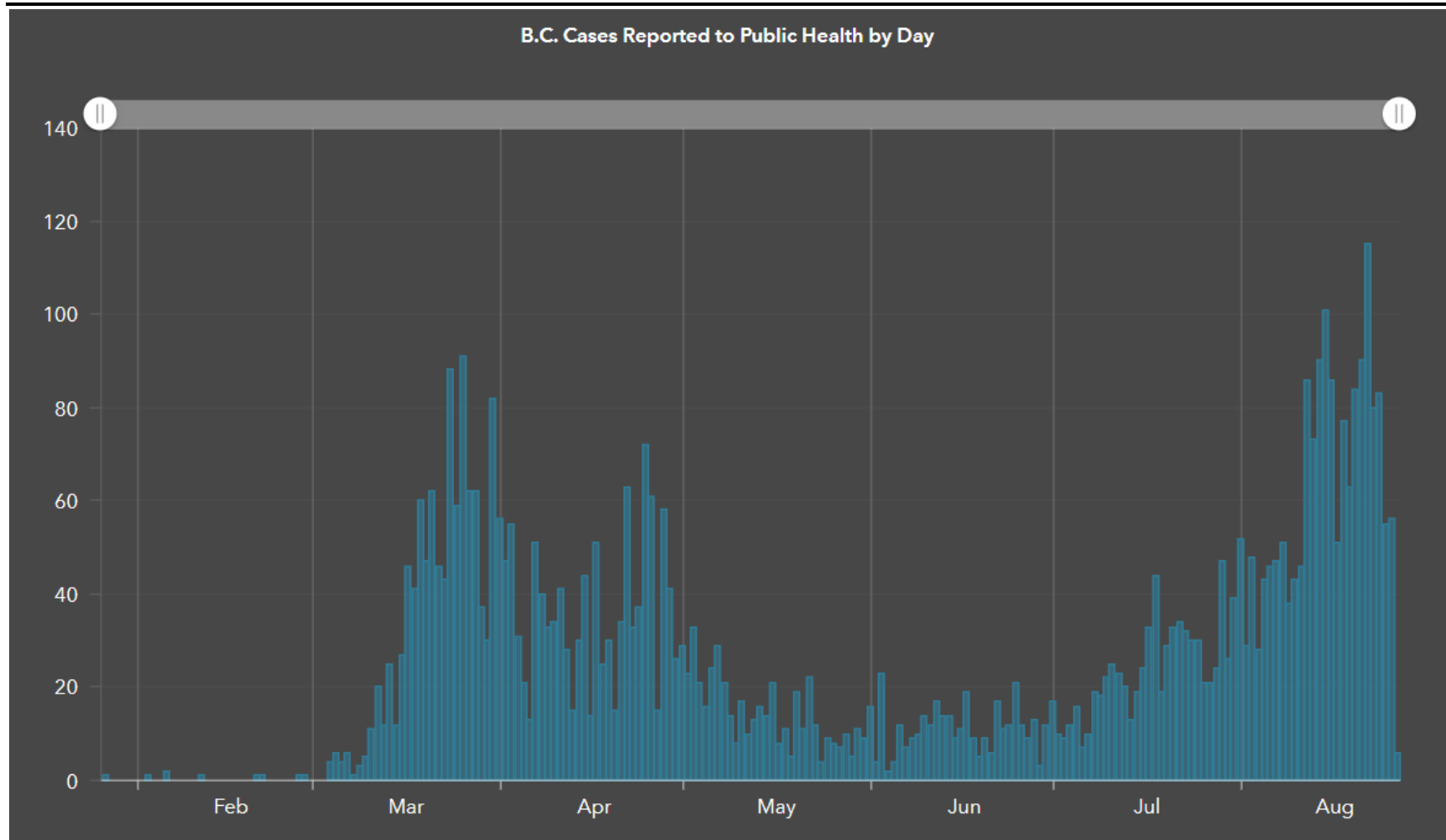


Figure 1. Daily cases of COVID-19 since January 1, 2020 in British Columbia. British Columbia Centre for Disease Control. <https://experience.arcgis.com/experience/a6f23959a8b14bfa989e3cda29297ded> (August 27, 2020)

Previous (August 4) Summary on Business Continuity (Updates Underlined)

Public Health & Emergency Services deliver essential services year-round to impact the health and health equity of Niagara residents, and to pursue Council's strategic goal of building a Healthy and Vibrant Community. During the current pandemic, the department is playing a central role in the response to protect and mitigate the impacts of COVID-19, while also continuing the essential work around all other health issues that continue to affect residents.

While COVID-19 has commanded the primary focus of Public Health and society at large, it is important to remember that most of the pre-existing health issues continue to exist and are responsible for more deaths (4,500 per year in Niagara) than the projected number of deaths from COVID-19 in Niagara (250–1,000 deaths).

Activity in Public Health & Emergency Services reflects focusing on COVID-19 response, while also ensuring ongoing service to protect the health in other essential areas.

Public Health Emergency Operations Centre for COVID-19

Current Status of Operations

Public Health began work in response to COVID-19 on January 8, 2020. As volume of activities grew, the Public Health Emergency Operations Centre was partly activated on January 28, 2020 to ensure coordination of work and central leadership. By March 9, staff had begun to be redeployed from regular duties to supporting the activities of the Emergency Operations Centre, which was fully activated at this time. Currently 112 staff are redeployed to work in COVID-19 emergency response (32% of staff complement in Public Health), as well as an additional 24 staff on contract to support the response.

Significant Initiatives or Actions Taken

There are three principle lines of response to COVID-19:

1. **Case, Contact, and Outbreak Management.** Public Health is following-up with every person diagnosed with COVID-19 to ensure they are isolated and no longer infecting others. Public Health identifies all contacts of that person who may also have been infected, and arranges for those contacts to be isolated as well. That way, if they develop illness, they cannot have exposed anyone. By

isolating all persons who may be infected with COVID-19, the chain of transmission can be broken. Case and contact management will be critical to ensuring ongoing control of COVID-19 transmission if and when physical distancing measures are relaxed.

A critical subset of this work is advising and supporting the management of outbreaks in long term care homes, retirement homes, and other health care facilities. We have seen that most cases and deaths in Niagara, Ontario, and Canada as a whole have occurred in these settings. Better protecting them and supporting these facilities to manage outbreaks are our top priority.

Public Health usually has 12 staff working on case, contact, and outbreak management year-round for 75 diseases of public health significance (e.g. measles, influenza, salmonella, HIV). Within the Emergency Operations Centre, this has been scaled-up to 52 front line FTE as well as 10 FTE of support staff and 9 supervisory/leadership staff trained to support this, as needed. An additional 44 staff are trained to support case & contact management, but have been deployed back to their home programs given the lower number of cases currently being identified. In addition, Public Health is further expanding its capacity by “out sourcing” some of this work to staff offered by the Public Health Agency of Canada and to medical students. With Council’s approval received on August 13, 2020, there is now the ability to enter into assistance agreements with other local public health agencies to further expand capacity if needed. The case/contact/outbreak management operation now works 7 days a week, 08:00 to 20:00.

- 2. Supporting Health Care & Social Services Sector.** The health care and social services sectors play an essential role in supporting those most vulnerable, including diagnosing and caring for those who contract COVID-19. Public Health has been working with the sector to advise and support protocols that will minimize risk of infection to both clients and staff. We are also helping health care providers acquire personal protective equipment and testing materials.

An additional role around supporting the health care system has been to enable Niagara Health to maximize the capacity of its COVID-19 assessment centres. Public Health has been temporarily assessing and prioritizing persons concerned about COVID-19 for testing at the assessment centres. Public Health is in the process of transitioning this effort to primary care providers so that Public Health staff can shift to focus even more on other elements of COVID-19 response. A

dedicated health care provider phone line supports health care providers in providing advice and latest recommendations around COVID-19.

Approximately 43 FTE currently support the health care and social services sector within the Emergency Operations Centre, all redeployed from normal public health work.

3. **Supporting Schools & Child Care.** A new call line has been created to support schools, teachers, staff, and child care operators with keeping children safe in their reopening's. Supporting these sectors is a priority in terms of protecting vulnerable children as well as older staff who may work in these settings and are at risk of severe illness. However, it is also a priority given the potential for children to spread infections through families and through the large populations in schools which could trigger a second wave. As well, successful reopening of schools and child care is critical for our economic recovery to enable parents to return to work. This is a particular equity issue for women given the disproportionate role women play in child care. Currently 4 FTE support this new call line, but a total of at least 35 staff, including the 16 new hires, will be supporting schools and child care within a few weeks.

4. **Public Messaging.** Given the rapidly changing landscape of COVID-19. Public Health seeks to provide the public with the information to address their fears and concerns, as well as to understand their risk and how to protect themselves. These efforts include a comprehensive web site library of frequently asked questions, an information phone line to speak to a health professional that operates 09:15 to 20:30 on weekdays and 09:15 on 16:15 on weekends, an online chat service with health professionals that operates during the same hours, social media, and approximately 15 media requests per week. Daily, Public Health has over 20,000 interactions with the public across all channels.

Approximately 10 staff have been redeployed from usual public health operations to support the Emergency Operations Centre with public messaging.

In addition to these lines of work, there is significant work around data entry, customizing data systems and process management to make the above three lines of work as efficient and effective as possible. As well, there are comprehensive planning teams, logistics teams, a finance and administration team, and liaison activities. Approximately 45 staff have been reallocated to these activities.

Finally, existing mass immunization plans are being updated and preparedness is underway for if and when a COVID-19 vaccination is available.

Operational Outlook

1 month

- Case & Contact Management capacity readied for deployment as cases increase with increased economic and social interactions

3 months

- Assistance agreements may be entered into with other local public health agencies to prepare for managing the risk of a local surge of COVID-19 cases.

3 months to 6 months

- Projections on operations in the future will depend on Provincial government policy decisions around COVID-19 response. The expectation is that current emergency operations would continue with emphasis shifting based on provincial response.

Clinical Services Division (Excluding Mental Health)

Current State of Operations

Most efforts in this area normally focus on infectious disease prevention. Many staff (37 FTE of 84 total) have been reallocated to the Emergency Operations Centre for COVID-19 response. This number has been scaled back as sexual health services as well as vaccination cold chain inspections have been scaled up, the latter in preparation for vaccination against influenza. Current operations are focused on

- case and contact management of sexually transmitted infections
- case and contact management of significant infectious diseases (e.g. tuberculosis, measles)
- distributing provincial vaccination stockpiles to primary care
- inspection primary care for appropriate cold chain with respect to vaccinations
- advising primary care around complex immunization scenarios
- emergency contraception

- outreach to marginalized populations around vaccination and sexual health

Services/Operational Changes

- Cessation of immunization clinics
- Cessation of school vaccinations
- Cessation of enforcing the *Immunization of School Pupils Act*
- Cessation of supplying the public with immunization records
- Cessation of sexual health clinics
- Cessation of health promotion around vaccinations
- Cessation of health promotion around healthy sexuality

It is a priority in the coming weeks to develop a plan to resume school vaccinations and enforcement of the *Immunization of School Pupils Act*.

Operational Outlook

1 month & 3 months

- Return of staff to vaccination and sexual health programs to scale up operations in these areas.
- Resume school-based vaccinations.
- Plan for enforcement of the *Immunization of School Pupil's Act*.

Mental Health

Current State of Operations

Mental Health supports clients in the community who would often otherwise need to be hospitalized. This work is critical to keep people out of the hospital and ensure health system capacity for those with COVID-19. As well, given current challenges around loss of employment, anxiety, and social isolation, delivery of mental health services is more important than ever. All 65 staff have been returned to their role with Mental Health.

Services/Operational Changes

- Shift of some in-person clinics to remote delivery
- Reduction in some volume of work to shift 6 FTE to Emergency Operations and to provide mental health case management in shelters.

Operational Outlook

- 2 staff have returned to Mental Health from emergency operations. Anticipate no changes to current operations over the next 6 months.

Environmental Health

Current State of Operations

Several lines of inspection that were discontinued due to closures of certain sectors (e.g. food services, personal services, recreational pools) have resumed as those sectors reopen. In addition, other sectors of inspection remain more important than ever (e.g. infection control inspections of long term care homes and retirement homes). No staff remain completely deployed to support Emergency Operations. However, almost all staff are supporting emergency operations in their home program by inspecting COVID-19 prevention measures as part of their normal inspection work, or taking on roles around non-COVID-19 infection prevention normally done by staff redeployed to Emergency Operations. Currently staff focus upon

- Investigation of animal bites for rabies prevention
- Investigation of health hazards
- Foodborne illness complaints
- Food premises complaints
- Infection prevention and control lapse investigations
- Inspection of reopened food premises
- Inspection of housing and infection prevention amongst temporary foreign workers
- Support and advice to private drinking water and small drinking water system operators
- Inspection of reopened recreational water establishments
- Inspection of reopened personal services settings
- Surveillance and prevention of West Nile Virus, Lyme Disease, and other vector born diseases
- Investigation of adverse water quality
- Supporting businesses and other partners with infection prevention and control, especially as many businesses move to re-open
- Supporting operators with other unique health risks from resuming after a period of extended closure, such as flushing and managing stale water in pipes

Services/Operational Changes

- Increase of infection control investigations of long term care facilities and retirement homes
- Simulations of outbreaks with long term care facilities and retirement homes to increase their preparedness for outbreaks
- Refocusing infection control investigations of day cares to focus on very frequent inspection of those that remain operational

Operational Outlook

1 month

- Continuing with intense inspections of long term care facilities and retirement homes, as well as other congregate living locations (e.g. group homes)
- Additional inspections of local farms and workplaces where transmission is likely.
- Loosening of social restrictions has necessitated resumption of inspections of food services, personal services, beaches, and other areas, and this will only increase.

3 month & 6 month

- Projections on operations in the future will depend on Provincial government policy decisions around COVID-19 response.

Chronic Disease & Injury Prevention

Current State of Operations

Chronic illnesses are responsible for 70% of ill health and lead to more deaths (75,000 deaths per year in Ontario) than are likely to be caused by COVID-10 (Ontario government projects 3,000 to 15,000 deaths from COVID-19). Chronic diseases are likely to be exacerbated during this period of social restrictions. As well, since chronic disease make one more likely to suffer severe illness from COVID-19, mitigating chronic diseases remains a high priority.

Efforts are being consolidated around three areas:

1. Mental health promotion. This reflects the greater risk of persons suffering mental health challenges including suicide during this time.
2. Substance use prevention. This reflects the risk of greater substance use while people are unemployed and lack other means of recreation.
3. Health eating and physical activity. The goal is to ensure physical activity despite current social restrictions, and support healthy eating when mostly fast food is available to purchase for take-out.

The above three priorities align with the underlying causes of most ill health and most deaths in Canada. All 45 staff remain in their role supporting work on these health issues.

Services/Operational Changes

- Consolidation of resources around the previously mentioned three priorities
- Elimination of engagement of populations in-person
- Elimination of activities in schools, workplaces, and other public settings
- Cessation of most cancer prevention work
- Cessation of most healthy aging work
- Cessation of most injury prevention work
- Expansion of role of Tobacco Control Officers to also enforce Provincial emergency orders around physical distancing

Operational Outlook

1 month

- Continuing new initiatives
- Working with partners on new opportunities enabled by the pandemic

3 month & 6 month

- Resumption of workshops for smoking cessation
- Roll-out of major suicide-prevention initiatives
- Projections on operations in the future will depend on Provincial government policy decisions around COVID-19 response. Loosening of social restrictions will enable delivery of programming with more direct engagement.

Family Health

Current State of Operations

There continues to be redeployment of roughly 50 of 121 FTE in Family Health to support Emergency Operations.

Families in Niagara are burdened now more than ever to try to provide safe and healthy care, environments and opportunities for children. The Family Health division continues to provide essential services for families with a small number of staff. Limited services are provided by phone, live chat and virtual access to nurses through **Niagara Parents** where families can seek support with breastfeeding, parenting, pregnancy, postpartum mental health and child health issues.

Efforts are now underway to plan with schools on how school health programming may be delivered this fall. The Healthy Babies Healthy Children program has begun transitioning back to in-person visits with physical distance to better support families, as well as in-person screening in the hospitals. The Nurse Family Partnership has also been able to transition to mostly in-person visits using physical distance having maintained visiting at pre-COVID levels for the prior 3 months with more virtual visits. Figure 1 shows an example of how Family Health has continued to support our most vulnerable clients through the pandemic.

Staff are focusing their efforts on the following areas:

- Prenatal/postnatal support
- Supporting vulnerable families
- Parenting supports
- Providing enrollment and information towards emergency dental care

Home visiting programs for some of our most vulnerable families are also offering virtual support to assist with

- adjusting to life with a new baby,
- addressing parenting concerns,
- promoting healthy child development,
- accessing other supports and services as they are available, and
- assessing for increased risk related to child protection

Services/Operational Changes

- Cessation of dental screening
- Cessation of dental services
- Cessation of breastfeeding clinics
- Cessation of well baby clinics
- ~~Cessation of school health activities~~
- Shifting all prenatal/postnatal support to virtual options from in-person service
- Shifting home visits to remote connections

For the period of March 16, 2020 to August 15, 2020:

- 304 registrants for online prenatal education
- 1,508 HBHC postpartum screens and assessments completed by PHN
- 1,144 HBHC home visits
- 397 Nurse Family Partnership visits
- 223 Infant Child Development service visits
- 422 Breastfeeding outreach visits
- 1,083 interactions with Niagara Parents (phone, live chat, and email)
- 117 moms received support and skill building through our cognitive behavioural therapy post-partum depression group
- 68 families received support and skill building through Triple P Individualized Parent Coaching

Operational Outlook

1 month

- Resume breastfeeding clinics

3 month & 6 month

- Future operations will depend on Provincial policy decisions around COVID-19 response. Loosening of social restrictions will enable delivery of programming with more direct engagement, as well as engagement within schools.
- Resumption of dental clinics and fluoride varnish administration is also being planned for the fall.
- Positive Parenting Program being planned for resumption in the fall. There has been high uptake to virtual class options.

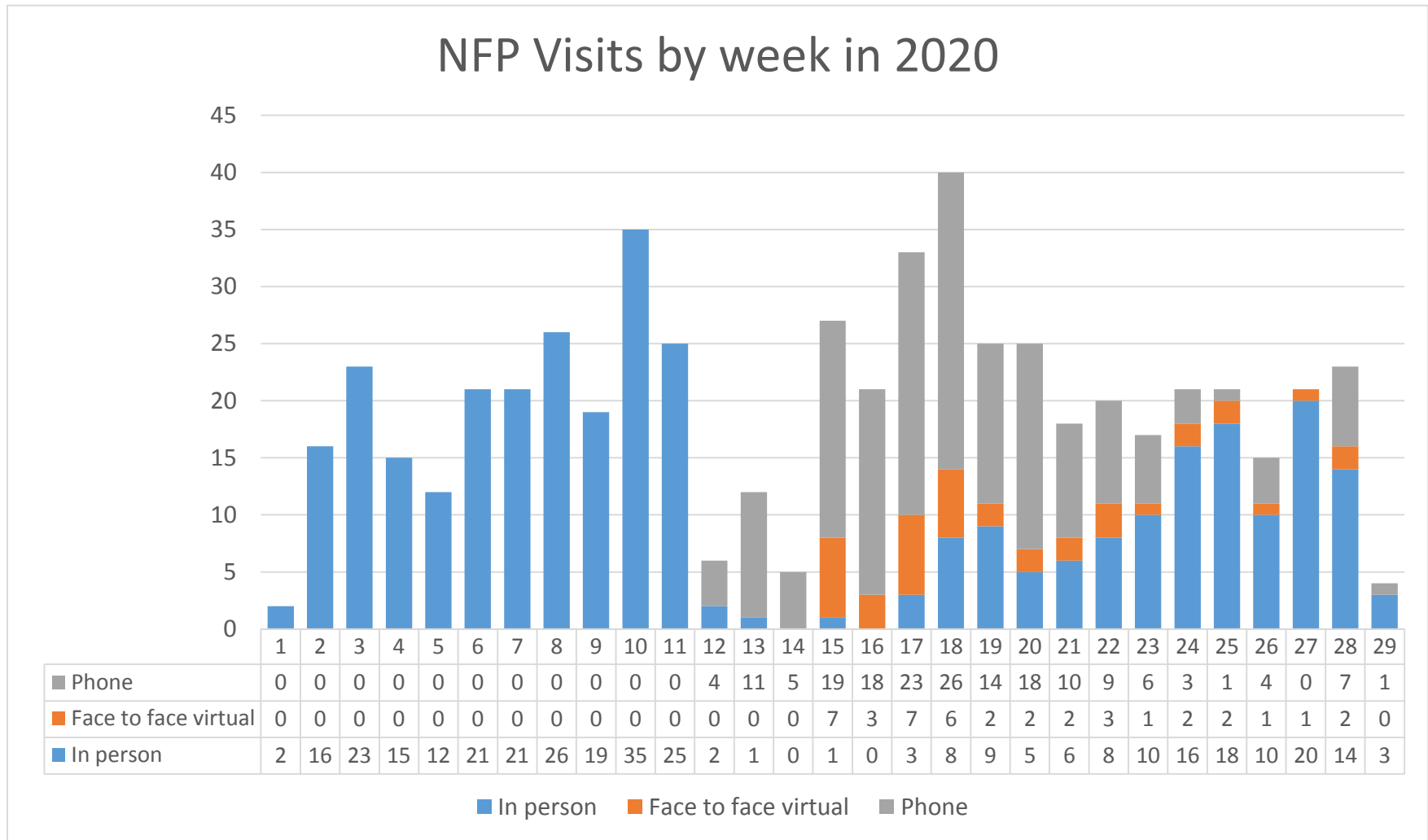


Figure 2. Visits by the Nurse Family Partnership program, according to type of visit. The program was able to maintain service to clients except for a 3 week interruption.

Organizational and Foundational Standards

Current State of Operations

Organizational and Foundational Standards supports the data analytics, program evaluation, quality improvement, professional development, communications, engagement, and customer services activities of Public Health. There has been redeployment of 35 of 39 staff to Emergency Operations. Ongoing activity includes

- Opioid surveillance reporting
- Active screening of staff at Regional buildings
- Managing data governance and privacy issues

Services/Operational Changes

- Cessation of public health surveillance work
- Cessation of most public health communications and engagement work
- Cessation of public health data analytics
- Cessation of expanded implementation of electronic medical record system
- Cessation of all public health quality improvement work
- Cessation of Public health applied research
- Cessation of evaluating public health programs
- Cessation of public reception service in Public Health buildings
- Scaling back data governance initiative

Operational Outlook

- Expectation is that resources will remain reallocated to Emergency Operations for at least 6 months.

Emergency Medical Services

Current State of Operations

Emergency Medical Services (EMS) continues to dispatch land ambulance services to the population calling 911, as well as modified non-ambulance response to 911 calls as appropriate (the System Transformation Project). At present, call volumes are slightly below baseline, and operational response is normal. There are some paramedics who have been exposed to COVID-19 and must be off work to protect their patients and co-

workers. EMS is facing increased pressures around personal protective equipment procurement given global shortages.

Services/Operational Changes

- Providing enhanced community support through COVID-19 specific programs (refer to PHD 05-2020 for additional details)

Operational Outlook

1 month

- The Pandemic Plan for response prioritization remains in place in case there is a resurgence of cases in Niagara. This is a unique plan to Niagara, enabled by Niagara's local control and tight integration of both ambulance dispatch and the land ambulance services.

3 month & 6 month

- Projections on operations in the future will depend on Provincial government policy decisions around COVID-19 response, and the subsequent circulation of COVID-19 in the population. Higher COVID-19 circulation would create demand for more calls to 911 as well as increase risk for EMS staff who must be off work due to COVID-19 infection or exposure. As 911 calls increase and/or staff are unable to work, the Pandemic Plan will prioritize which calls continue to be served, and which 911 calls receive a modified response (e.g. phone call and advice from a nurse) or no response.

Emergency Management

Current State of Operations

Emergency Management is currently fully deployed to supporting the Regional Emergency Operations Centre and advising the Public Health Emergency Operations Centre. Emergency Management is also deeply engaged with supporting emergency operations teams at the local area municipalities, as well as other key stakeholders (e.g. Niagara Regional Police, fire services, Canadian Forces). The CBNRE team has also been supporting emergency operations part time. Paramedics are also assisting with staffing the shelter system.

Services/Operational Changes

- Cessation of preparedness activities to focus fully on current response to COVID-19.

Operational Outlook

Ongoing support of current Emergency Operations Centres and recovery planning efforts. There are some elements of recovery planning that are begin implemented.

Respectfully submitted and signed by

M. Mustafa Hirji, MD MPH FRCPC
Medical Officer of Health & Commissioner (Acting)
Public Health & Emergency Services