

COVID-19 CADTH REFERENCE LIST

Quick Start: Aerosol Generating Medical Procedures

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Questions or requests for information about this report can be directed to requests@cadth.ca

About This Document

With the speed of information coming out on COVID-19, our customers often need evidence fast. In the interest of supporting urgent customer needs for reliable evidence, a collection of key citations have been provided upon request. These citations have met customer needs on COVID-19–related topics and are intended to provide a preliminary start to more comprehensive searching or to help frame questions or issues. International scientific evidence about COVID-19 is changing and growing rapidly, so if you'd like to know more please contact requests@cadth.ca or <https://covid.cadth.ca/submit-a-request/>.

Results

Baerlocher MO, Baerlocher FJ. Overuse/Abuse of the Definition of "Aerosol-Generating Procedures" to Limit Mask Use [published online ahead of print, 2020 Apr 27]. <https://pubmed.ncbi.nlm.nih.gov/32457009/>

Tagg, A. Aerosol Generating Procedures, Don't Forget the Bubbles, 2020. <https://dontforgetthebubbles.com/aerosol-generating-procedures/>

Birgand G, Mutters NT, Otter J, et al. Analysis of national and international guidelines on respiratory protection equipment for COVID-19 in healthcare settings. [medRxiv preprint]. 2020 Apr 29. <https://www.medrxiv.org/content/10.1101/2020.04.23.20077230v1.full.pdf>

HTAs and Rapid Response Reports

Healthcare Infection Prevention and Control FAQs for COVID-19. 2020 May 29. <https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control-faq.html>

World Health Organization. Infection prevention and control during health care for probable or confirmed cases of novel coronavirus (nCoV) infection. 2013. https://www.who.int/csr/disease/coronavirus_infections/IPCnCoVguidance_06May13.pdf

Newfoundland & Labrador Centre for Applied Health Research. Aerosol Generating Medical Procedures (AGMPs) and COVID-19. 2020. <https://www.nlcahr.mun.ca/CHRSP/COVID19AGMPMay2020.pdf>

Li J, Leavey A, Yang W, et al. Defining Aerosol Generating Procedures and Pathogen Transmission Risks in Healthcare Settings, Open Forum Infectious Diseases. 2017;4(suppl_1): S34–S35. https://academic.oup.com/ofid/article/4/suppl_1/S34/4293978
Note: abstract only. Figures available at link.

Included procedures

Canada

Government of Canada. Routine practices and additional precautions for the transmission of infection in healthcare settings. 2017. <https://www.canada.ca/en/public-health/services/publications/diseases-conditions/routine-practices-precautions-healthcare-associated-infections.html>

Yukon Department of Health and Social Services. Recommended Practices and Personal Protective Equipment (PPE) for Yukon Community Health Centres – Interim Guidance 24/4/20. 2020 Apr 24. https://yukon.ca/sites/yukon.ca/files/hss/hss-imgs/ppe_recomendations_for_yukon_health_centres_2020-4-24.pdf

Northwest Territories. Infection Prevention and Control Manual. 2012. <https://www.hss.gov.nt.ca/professionals/sites/professionals/files/resources/infection-control-manual.pdf>

Government of Nunavut. Nunavut Communicable Disease and Surveillance Manual. 2016. https://www.gov.nu.ca/sites/default/files/nu_communicable_diseases_manual_-_complete_2018_0.pdf

Provincial Infection Control Network of British Columbia (PICNet). 2019 Novel Coronavirus: Aerosol Generating Medical Procedures in Healthcare Settings. 2020 Feb 7. http://www.bccdc.ca/Health-Professionals-Site/Documents/2019-nCoV_AGMP_PICNet.pdf

Island Health. AGMPs and PPE Requirements: Patients Suspected, Confirmed or at Risk of COVID-19. 2020 May 12. <https://medicalstaff.islandhealth.ca/sites/default/files/2020-05/agmps-ppe-requirements-patients-suspected-confirmed-risk-covid-19.pdf>

Vancouver Coastal Health. IPAC Best Practices Guideline, Aerosol Generating Medical Procedures. 2020 Mar 23. <http://ipac.vch.ca/Documents/Acute%20Resource%20manual/Aerosol%20Generating%20Medical%20Procedures.pdf>

Alberta Health Services. IPC Continuing Care Resource Manual Glossary. 2013. <https://www.albertahealthservices.ca/ipc/hi-ipc-glossary-cc.pdf>

Shared Health (Manitoba). Provincial Guidance for Aerosol Generating Medical Procedures (AGMPs). 2020 May 28. <https://sharedhealthmb.ca/files/aerosol-generating-medical-procedures-AGMPs.pdf>

Winnipeg Regional Health Authority. Appendix A: Aerosol Generating Medical Procedures. 2009, revised 2017. https://professionals.wrha.mb.ca/old/extranet/ipc/files/manuals/acute/EnhancedDropletCP_AppendixA-AGMP.pdf

Public Health Ontario. IPAC Recommendations for Use of Personal Protective Equipment for Care of Individuals with Suspect or Confirmed COVID-19. 2020 May 3. <https://www.publichealthontario.ca/-/media/documents/ncov/updated-ipac-measures-covid-19.pdf?la=en>

Ontario Health. Personal Protective Equipment (PPE) use during the COVID-19 Pandemic. 2020 Mar 30. https://www.oha.com/Bulletins/Personal%20Protective%20Equipment%20use-COVID-19_Released_March_30_2020.pdf

Provincial Infectious Diseases Advisory Committee (PIDAC). Routine Practices and Additional Precautions in All Health Care Settings, 3rd edition. 2012. <https://www.publichealthontario.ca/-/media/documents/B/2012/bp-rpap-healthcare-settings.pdf?la=en>

New Brunswick Association of Respiratory Therapists. Position Statement Aerosol Generating Medical Procedures During an H1N1 Influenza A Pandemic.

<https://www.nbart.ca/en/nbart-position-statements/position-statement-aerosol-generating-medical-procedures-during-an-h1n1-influenza-a-pandemic.html>

Saint John Regional Hospital. COVID-19 – Infection Prevention and Control. [2020].

<http://sjrhem.ca/covid-19-infection-protection-and-control/>

Nova Scotia Health Authority. 2019 Novel Coronavirus (COVID-19): Aerosol Generating Medical Procedures in Healthcare Settings. 2020 Apr 20.

http://policy.nshealth.ca/Site_Published/covid19/document_render.aspx?documentRender.IdType=6&documentRender.GenericField=&documentRender.Id=76545

Copy and paste link into browser

Prince Edward Island Guidelines for the Management and Control of COVID-19. 2020 Mar.

https://www.princeedwardisland.ca/sites/default/files/publications/20200311_guideline_covid-19_final.pdf

International

USA

Occupational Safety and Health Administration (OSHA). Hospital respiratory protection program toolkit. 2015. <https://www.osha.gov/Publications/OSHA3767.pdf>

Massachusetts General Hospital. Infection Control Guidelines for Aerosol-Generating Procedures. 2020 May 28.

<https://www.massgeneral.org/assets/MGH/pdf/news/coronavirus/list-of-aerosol-generating-procedures.pdf>

UK

Department of Health and Social Care (DHSC), Public Health Wales (PHW), Public Health Agency (PHA) Northern Ireland, Health Protection Scotland (HPS) and Public Health England. COVID-19 Guidance for infection prevention and control in healthcare settings.

2020. https://caep.ca/wp-content/uploads/2020/03/3.-File-under-PPE-Infection_prevention_and_control_guidance_for_pandemic_coronavirus.pdf

UK Government. COVID-19 personal protective equipment (PPE). 2020 May 21.

<https://www.gov.uk/government/publications/wuhan-novel-coronavirus-infection-prevention-and-control/covid-19-personal-protective-equipment-ppe#ppe-guidance-by-healthcare-context>

Health Protection Scotland. Aerosol Generating Procedures (AGPs). 2020 Mar.

https://hpspubsrepo.blob.core.windows.net/hps-website/nss/2893/documents/1_tbp-lr-agp-v1.1.pdf

Europe

Health Protection Surveillance Centre (Ireland). Use of PPE to support Infection Prevention and Control Practice when performing aerosol generating procedures on confirmed or clinically suspected COVID-19 cases in a pandemic situation. 2020 Mar 23.

<https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreventionandcontrolguidance/aerosolgeneratingprocedures/AGPs%20for%20confirmed%20or%20possible%20COVID19.pdf>

Jespers V, Roberfroid D. COVID-19 – KCE Contributions. Aerosol-generating procedures. Brussels (BE): Belgian Health Care Knowledge Centre (KCE). 2020 Apr 9.

https://kce.fgov.be/sites/default/files/atoms/files/2020-51_COVID_Aerosol%20KCE_FINAL_19052020_3.pdf

Organizations

Ear, Nose and Throat

Canadian Society of Otolaryngology. Guidance for Health Care Workers Performing Aerosol Generating Medical Procedures during the COVID-19 Pandemic. 2020 Mar 26.

<https://www.entcanada.org/wp-content/uploads/Protocol-for-COVID-and-AGMP-3-iw-mailer.pdf>

ENT UK. Aerosol-generating procedures in ENT. 2020 Mar 23.

<https://www.entuk.org/aerosol-generating-procedures-ent>

Emergency Care

Edelson DP, Sasson C, Chan PS, et al. Interim Guidance for Basic and Advanced Life Support in Adults, Children, and Neonates With Suspected or Confirmed COVID-19: From the Emergency Cardiovascular Care Committee and Get With the Guidelines®-Resuscitation Adult and Pediatric Task Forces of the American Heart Association in Collaboration with the American Academy of Pediatrics, American Association for Respiratory Care, American College of Emergency Physicians, The Society of Critical Care Anesthesiologists, and American Society of Anesthesiologists: Supporting Organizations: American Association of Critical Care Nurses and National EMS Physicians [published online ahead of print, 2020 Apr 9]. *Circulation*. 2020.

<https://www.ahajournals.org/doi/pdf/10.1161/CIRCULATIONAHA.120.047463>

Radiology

Society of Interventional Radiology. Aerosol Generating Procedures Performed by Interventional Radiology Clinical Notification from the Society of Interventional Radiology. 2020 Apr 17.

<https://www.sirweb.org/practice-resources/covid-19-resources/covid-19-clinical-notification-3-26-20/>

Respiratory Therapy

Canadian Society of Respiratory Therapists. Position Statement on Procedures Creating a Heightened Risk of Infection During an Outbreak of a Communicable Respiratory Disease. [2020].

<https://www.csrt.com/wp-content/uploads/CSRT-Procedures-Duringan-Outbreak-April-2020-v2.pdf>

Speech Language Pathology

American Speech-Language-Hearing Association. ASHA Guidance to SLPs Regarding Aerosol Generating Procedures. 2020 Apr 22. <https://www.asha.org/SLP/healthcare/ASHA-Guidance-to-SLPs-Regarding-Aerosol-Generating-Procedures/>

Royal College of Speech & Language Therapists. Aerosol generating procedures, dysphagia assessment and COVID-19. 2020 Apr 22. [https://www.rcslt.org/-/media/docs/Covid/RCSLT-Dysphagia-and-AGP220420FINAL-1-\(1\).PDF?la=en&hash=816B77BE5A88976CD97F32B84754F223FA761C54](https://www.rcslt.org/-/media/docs/Covid/RCSLT-Dysphagia-and-AGP220420FINAL-1-(1).PDF?la=en&hash=816B77BE5A88976CD97F32B84754F223FA761C54)

Speech Pathology Australia. Speech Pathology Australia guidance for service delivery, clinical procedures and infection control during COVID-19 pandemic. 2020 May 29. https://www.speechpathologyaustralia.org.au/SPAweb/About_us/COVID-19_News_and_Information/COVID-19_-_Guidance_for_Service_Delivery/SPAweb/About_Us/COVID-19/Guidance_for_Service_Delivery.aspx?hkey=fc19a880-e7a8-4246-8631-a474fc43d4ae

Other Articles that may be of Interest

Cummings KJ, Martin SB Jr, Lindsley WG, et al. Exposure to Influenza Virus Aerosols in the Hospital Setting: Is Routine Patient Care an Aerosol Generating Procedure? J Infect Dis. 2014 Aug 1;210(3):504-5. [PMID: 24596280](https://pubmed.ncbi.nlm.nih.gov/24596280/)

Hassan ZA. Covid-19: Are Chest Compressions an Aerosol Generating Procedure or Not? BMJ. 2020 May 5;369:m1825. [PMID: 32371437](https://pubmed.ncbi.nlm.nih.gov/32371437/)

Wong R, Bannerjee P, Kumaran N, et al. Aerosol Generating Procedures in Intraocular surgery. Eye (Lond). 2020 May 28. [PMID: 32467634](https://pubmed.ncbi.nlm.nih.gov/32467634/)

Zier JL, et al. Is Nitrous Oxide Sedation an Aerosol Generating Procedure? Pediatr Emerg Care. 2020 Jun 3. [PMID: 32501886](https://pubmed.ncbi.nlm.nih.gov/32501886/)