



CORRIGENDA

**Advice on the use of masks in the context of COVID-19: Interim guidance, 5 June 2020
(WHO/2019-nCov/IPC_Masks/2020.4)**

Delete pages 15–16 of the document and replace with the following two pages.

These corrections have been incorporated into the electronic file.

64. Giacomelli A, Pezzati L, Conti F, Bernacchia D, Siano M, Oreni L, et al. Self-reported olfactory and taste disorders in SARS-CoV-2 patients: a cross-sectional study. *Clin Infect Dis*. 2020.
65. Tong JY, Wong A, Zhu D, Fastenberg JH, Tham T. The Prevalence of Olfactory and Gustatory Dysfunction in COVID-19 Patients: A Systematic Review and Meta-analysis. *Otolaryngol Head Neck Surg*. 2020;194599820926473.
66. McMichael TM, Currie DW, Clark S, Pogosjans S, Kay M, Schwartz NG, et al. Epidemiology of Covid-19 in a Long-Term Care Facility in King County, Washington. *N Engl J Med*. 2020;382(21):2005-11.
67. Tay HS, Harwood R. Atypical presentation of COVID-19 in a frail older person. *Age Ageing*. 2020.
68. Coronavirus disease (COVID-19) advice for the public: When and how to use masks. Geneva: World Health Organization; 2020. (<https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public/when-and-how-to-use-masks>, accessed 4 June 2020).
69. Information Note COVID-19 and NCDs. Geneva: World Health Organization. 2020. (https://www.who.int/docs/default-source/inaugural-who-partners-forum/covid-19-and-ncds---final---corr7.pdf?sfvrsn=9b65e287_1&download=true, accessed 4 June 2020).
70. Public use of masks as source control during the COVID-19 pandemic: key considerations from social science. Geneva: World Health Organization; 2020. (unpublished, accessed 26 May 2020).
71. AFNOR. 2020. SPEC S76-001: Masque barrière. Guide d'exigence minimales, de méthode d'essais, de confection et d'usage. (<https://masques-barrieres.afnor.org/home/telechargement>, accessed 4 June 2020).
72. Liao L, Xiao W, Zhao M, Yu X, Wang H, Wang Q, et al. Can N95 Respirators Be Reused after Disinfection? How Many Times? *ACS Nano*. 2020;14(5):6348-56.
73. Jung, H., Kim, J.K., Lee, S., Lee, J., Kim, J., Tsai, P., et al., 2014. Comparison of Filtration Efficiency and Pressure Drop in Anti-Yellow Sand Masks, Quarantine Masks, Medical Masks, General Masks, and Handkerchiefs. *Aerosol Air Qual. Res*. 14, 991–1002. (<https://doi.org/10.4209/aaqr.2013.06.0201>, accessed 4 June 2020).
74. Rengasamy S, Eimer B, Shaffer RE. Simple respiratory protection--evaluation of the filtration performance of cloth masks and common fabric materials against 20-1000 nm size particles. *Ann Occup Hyg*. 2010;54(7):789-98.
75. Jang JY, Kim, S.W., . Evaluation of Filtration Performance Efficiency of Commercial Cloth Masks *Journal of Environmental Health Sciences (한국환경보건학회지)* Volume 41 Issue 3 / Pages203-215 / 2015. 2015.
76. Podgórski, A., Bałazy, A., Gradoń, L., 2006. Application of nanofibers to improve the filtration efficiency of the most penetrating aerosol particles in fibrous filters. *Chemical Engineering Science* 61, 6804–6815. (<https://doi.org/10.1016/j.ces.2006.07.022>, accessed 4 June 2020).
77. Zhao M, Liao L, Xiao W, Yu X, Wang H, Wang Q, et al. Household materials selection for homemade cloth face coverings and their filtration efficiency enhancement with triboelectric charging. *Nano Lett*. 2020.
78. Reusability of Facemasks During an Influenza Pandemic: Facing the Flu, 2006. National Academies Press, Washington, D.C. (<https://doi.org/10.17226/11637>, accessed 4 June 2020).
79. Lee SA, Hwang DC, Li HY, Tsai CF, Chen CW, Chen JK. Particle Size-Selective Assessment of Protection of European Standard FFP Respirators and Surgical Masks against Particles-Tested with Human Subjects. *J Healthc Eng*. 2016;2016.
80. Your 5 Moments for Hand Hygiene. Geneva: World Health Organization; 2020 (https://www.who.int/gpsc/5may/Your_5_Moments_For_Hand_Hygiene_Poster.pdf?ua=1, accessed 4 June 2020).

Acknowledgements

This document was developed based on advice by the Strategic and Technical Advisory Group for Infectious Hazards (STAG-IH), and in consultation with the following members of:

- 1) the WHO Health Emergencies Programme (WHE) Ad-hoc COVID-19 IPC Guidance Development Group (in alphabetical order):

Jameela Alsaman, Ministry of Health, Bahrain; Anucha Apisarntharak, Thammasat University Hospital, Thailand; Baba Aye, Public Services International, France; Gregory Built, UNICEF, United States of America (USA); Roger Chou, Oregon Health Science University, USA; May Chu, Colorado School of Public Health, USA; John Conly, Alberta Health Services, Canada; Barry Cookson, University College London, United Kingdom; Nizam Damani, Southern Health & Social Care Trust, United Kingdom; Dale Fisher, Goarn, Singapore; Joost Hopman, Radboud University Medical Center, The Netherlands; Mushtuq Husain, Institute of Epidemiology, Disease Control & Research, Bangladesh; Kushlani Jayatilleke, Sri Jayewardenapura General Hospital, Sri Lanka; Seto Wing Jong, School of Public Health, Hong Kong SAR, China; Souha Kanj, American University of Beirut Medical Center, Lebanon; Daniele Lantagne, Tufts University, USA; Fernanda Lessa, Centers for Disease Control and Prevention, USA; Anna Levin, University of São Paulo, Brazil; Ling Moi Lin, Sing Health, Singapore; Caline Mattar, World Health Professions Alliance, USA; Mary-Louise McLaws, University of New South Wales, Australia; Geeta Mehta, Journal of Patient Safety and Infection Control, India; Shaheen Mehtar, Infection Control Africa Network, South Africa; Ziad Memish, Ministry of Health, Saudi Arabia; Babacar Ndoye, Infection Control Africa Network, Senegal; Fernando Otaiza, Ministry of Health, Chile; Diamantis

Plachouras, European Centre for Disease Prevention and Control, Sweden; Maria Clara Padoveze, School of Nursing, University of São Paulo, Brazil; Mathias Pletz, Jena University, Germany; Marina Salvadori, Public Health Agency of Canada, Canada; Mitchell Schwaber, Ministry of Health, Israel; Nandini Shetty, Public Health England, United Kingdom; Mark Sobsey, University of North Carolina, USA; Paul Ananth Tambyah, National University Hospital, Singapore; Andreas Voss, Canisus-Wilhelmina Ziekenhuis, The Netherlands; Walter Zingg, University of Geneva Hospitals, Switzerland;

2) the WHO Health Emergencies Programme (WHE) Ad-hoc Experts Advisory Panel for Infection Prevention and Control (IPC) Preparedness, Readiness and Response to COVID-19, and other international experts including (in alphabetical order):

Mardjan Arvand, Robert Koch Institute Nordufer, Denmark; Elizabeth Bancroft, Centers for Disease Control and Prevention, USA; Gail Carson, ISARIC Global Support Centre, United Kingdom; Larry Chu, Stanford University School of Medicine, USA; Shan-Chwen Chang, National Taiwan University, Taiwan, Feng-Yee Chang, National Defense Medical Center, Taiwan, Steven Chu, Stanford University, USA; Yi Cui, Stanford University, USA; Jane Davies, Médecins Sans Frontières, The Netherlands; Katherine Defalco, Public Health Agency of Canada, Canada; Kathleen Dunn, Public Health Agency of Canada; Janine Goss, Public Health England, United Kingdom; Alison Holmes, Imperial College, United Kingdom; Paul Hunter, University of East Anglia, United Kingdom; Giuseppe Ippolito, Istituto Nazionale per le Malattie Infettive Lazzaro

Spallanzani, Italy; Marimuthu Kalisvar, Tan Tock Seng Hospital, Singapore; Dan Lebowitz, Hopitaux Universitaires de Geneve, Switzerland; Outi Lyytikäinen, Finland; Trish Perl, UT Southwestern, USA; F. Mauro Orsini, Ministry of Health, Santiago, Chile; Didier Pittet, University of Geneva Hospitals, and Faculty of Medicine, Geneva, Switzerland; Benjamin Park, Centers for Disease Control and Prevention, USA; Amy Price, Stanford University School of Medicine, USA; Supriya Sharma, Public Health Canada; Nalini Singh, The George Washington University, USA; Rachel Smith, Centers for Disease Control and Prevention, USA; Jorgen Stassinjns, Médecins Sans Frontières, The Netherlands; Sara Tomczyk, Robert Koch Institute, Germany.

The WHO Secretariat: Benedetta Allegranzi, Gertrude Avortri, Mekdim Ayana, Hanan Balkhy, April Baller, Elizabeth Barrera-Cancedda, Anjana Bhushan, Sylvie Briand, Alessandro Cassini, Giorgio Cometto, Ana Paula Coutinho Rehse, Carmem Da Silva, Nino Dal Dayanguirang, Sophie Harriet Dennis, Sergey Eremin, Dennis Nathan Ford, Jonas Gonseth-Garcia, Rebeca Grant, Tom Grein, Ivan Ivanov, Landry Kabego, Pierre Claver Kariyo, Ying Ling Lin, Ornella Lincetto, Madison Moon, Takeshi Nishijima, Kevin Babila Ousman, Pillar Ramon-Pardo, Paul Rogers, Nahoko Shindo, Alice Simniceanu, Valeska Stempliuk, Maha Talaat Ismail, Joao Paulo Toledo, Anthony Twywan, Maria Van Kerkhove, Vicky Willet, Masahiro Zakoji, Bassim Zayed.

© World Health Organization 2020. Some rights reserved. This work is available under the [CC BY-NC-SA 3.0 IGO](https://creativecommons.org/licenses/by-nc-sa/4.0/) licence.

WHO reference number: [WHO/2019-nCov/IPC_Masks/2020.4](https://www.who.int/publications/m/item/WHO/2019-nCov/IPC_Masks/2020.4)