**International Development Seminar:**

**Pandemic Response and International Development**

Spring 2022

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Grading:

[20%] Attendance and in-class discussion participation

[30%] mid-term report

[50%] Final report

\* Required reading for class participation

1. **Course introduction: going forward by looking back in the middle of pandemic**

\* John Nkengasong, Akiko Iwasaki, Cesar Victora, Juhwan Oh, George F. Gao, Anurag Agrawal, Christian Drosten, Cecilia Söderberg-Naucler, Eduardo López-Collazo, Allyson M. Pollock, Antonella Viola, Michael Baker, **The Global Response to the COVID-19 Pandemic**, *Med*, Volume 1, Issue 1,2020, Pages 3-8

\* Martin McKee, Danny Altmann, Anthony Costello, Karl Friston, Zubaida Haque, Kamlesh Khunti, Susan Michie, Tolullah Oni, Christina Pagel, Deenan Pillay, Steve Reicher, Helen Salisbury, Gabriel Scally, Kit Yates, Linda Bauld, Laura Bear, John Drury, Melissa Parker, Ann Phoenix, Elizabeth Stokoe, Robert West, **Open science communication: the first year of the UK's Independent Scientific Advisory Group for Emergencies**, *Health Policy*, 2022 (in press)

1. **International Effort to recover COVID-19 induced disruptions of socioeconomic activities and development**

\* Han E, Tan MMJ, Turk E, Sridhar D, Leung GM, Shibuya K, Asgari N, Oh J, García-Basteiro AL, Hanefeld J, Cook AR, Hsu LY, Teo YY, Heymann D, Clark H, McKee M, Legido-Quigley H. **Lessons learnt from easing COVID-19 restrictions: an analysis of countries and regions in Asia Pacific and Europe.** *Lancet.* 2020 Nov 7;396(10261):1525-1534.

\* Haldane V, De Foo C, Abdalla SM, Jung AS, Tan M, Wu S, Chua A, Verma M, Shrestha P, Singh S, Perez T, Tan SM, Bartos M, Mabuchi S, Bonk M, McNab C, Werner GK, Panjabi R, Nordström A, Legido-Quigley H. **Health systems resilience in managing the COVID-19 pandemic: lessons from 28 countries**. *Nat Med*. 2021 Jun;27(6):964-980.

\* Oliu-Barton M, Pradelski BSR, Aghion P, Artus P, Kickbusch I, Lazarus JV, Sridhar D, Vanderslott S. **SARS-CoV-2 elimination, not mitigation, creates best outcomes for health, the economy, and civil liberties.** *Lancet*. 2021 Jun 12;397(10291):2234-2236.

1. **Basics of medicine and public health to understand COVID-19 infection control**

\* Ferric C Fang, Constance A Benson, Carlos del Rio, Kathryn M Edwards, Vance G Fowler, Jr, David N Fredricks, Ajit P Limaye, Barbara E Murray, Susanna Naggie, Peter G Pappas, Robin Patel, David L Paterson, David A Pegues, William A Petri, Jr, Robert T Schooley, **COVID-19—Lessons Learned and Questions Remaining**, *Clinical Infectious Diseases*, Volume 72, Issue 12, 15 June 2021, Pages 2225–2240

\* Wang CC, Prather KA, Sznitman J, Jimenez JL, Lakdawala SS, Tufekci Z, Marr LC. **Airborne transmission of respiratory viruses.** *Science*. 2021 Aug 27;373(6558):eabd9149.

\* Reddy KP, Shebl FM, Foote JHA, Harling G, Scott JA, Panella C, Fitzmaurice KP, Flanagan C, Hyle EP, Neilan AM, Mohareb AM, Bekker LG, Lessells RJ, Ciaranello AL, Wood R, Losina E, Freedberg KA, Kazemian P, Siedner MJ. **Cost-effectiveness of public health strategies for COVID-19 epidemic control in South Africa: a microsimulation modelling study**. *Lancet Glob Health*. 2021 Feb;9(2):e120-e129.

1. **Advanced essentials of medicine and public health to revisit COVID-19 response (2): trace-test-isolation-quarantine (TTIQ)**

\* Kerr CC, Mistry D, Stuart RM, Rosenfeld K, Hart GR, Núñez RC, Cohen JA, Selvaraj P, Abeysuriya RG, Jastrzębski M, George L, Hagedorn B, Panovska-Griffiths J, Fagalde M, Duchin J, Famulare M, Klein DJ. **Controlling COVID-19 via test-trace-quarantine**. *Nature Communication.* 2021 May 20;12(1):2993.

\* Juhwan Oh, Seungsik Hwang, Khuong Quynh Long, Minkyung Kim, Kunhee Park, Seunghyun Kwon, Osvaldo Enrique Artaza Barrios, Irene Torres, Matthew Kavanagh, Naoki Kondo, S Patrick Kachur, Minh Hoang Van, Dong Roman Xu, Mikael Rostila, Caroline Benski, Mellissa Withers, Borwornsom Leerapan, Myoungsoon You, Cristiani Vieira Machado, Chang-Chuan Chan, Hwa-Young Lee, Jeonghyun Shin, Hyejin Jeong, Sung-In Kim, Soon Kim, Soo Kyung Park, Judith McCool, Lawrence O Gostin, SV Subramanian, Jeffrey F Markuns, Yun-Chul Hong, Chris Bullen, Jong-Koo Lee, Martin McKee. **Real World Evidence of Trace, Test, Isolation, and Quarantine Impact on the COVID-19 Pandemic Response Performance**. 2021. *SSRN* (pre-print)

\* Hellewell J, Abbott S, Gimma A, Bosse NI, Jarvis CI, Russell TW, Munday JD, Kucharski AJ, Edmunds WJ; Centre for the Mathematical Modelling of Infectious Diseases COVID-19 Working Group, Funk S, Eggo RM. **Feasibility of controlling COVID-19 outbreaks by isolation of cases and contacts**. *Lancet Glob Health*. 2020 Apr;8(4):e488-e496. doi: 10.1016/S2214-109X(20)30074-7. Epub 2020 Feb 28. Erratum in*: Lancet Glob Health*. 2020 Mar 5

1. **Advanced essentials of medicine and public health to revisit COVID-19 response (1): social distancing & facemask**

\* Li Y, Campbell H, Kulkarni D, Harpur A, Nundy M, Wang X, Nair H; Usher Network for COVID-19 Evidence Reviews (UNCOVER) group. **The temporal association of introducing and lifting non-pharmaceutical interventions with the time-varying reproduction number (R) of SARS-CoV-2: a modelling study across 131 countries.** *Lancet Infect Dis.* 2021 Feb;21(2):193-202.

\* Oh J, Lee HY, Khuong QL, Markuns JF, Bullen C, Barrios OEA, Hwang SS, Suh YS, McCool J, Kachur SP, Chan CC, Kwon S, Kondo N, Hoang VM, Moon JR, Rostila M, Norheim OF, You M, Withers M, Li M, Lee EJ, Benski C, Park S, Nam EW, Gottschalk K, Kavanagh MM, Tran TGH, Lee JK, Subramanian SV, McKee M, Gostin LO. **Mobility restrictions were associated with reductions in COVID-19 incidence early in the pandemic: evidence from a real-time evaluation in 34 countries.** *Sci Rep*. 2021 Jul 2;11(1):13717.

\* Liang M, Gao L, Cheng C, Zhou Q, Uy JP, Heiner K, Sun C. **Efficacy of face mask in preventing respiratory virus transmission: A systematic review and meta-analysis.** *Travel Med Infect Dis*. 2020 Jul-Aug;36:101751.

1. **Advanced essentials of medicine and public health to revisit COVID-19 response (3): vaccine & medicine**

\* Marc Chadeau-Hyam, Haowei Wang, Oliver Eales, David Haw, Barbara Bodinier, Matthew Whitaker, Caroline E Walters, Kylie E C Ainslie, Christina Atchison, Claudio Fronterre, Peter J Diggle, Andrew J Page, Alexander J Trotter, Deborah Ashby, Wendy Barclay, Graham Taylor, Graham Cooke, Helen Ward, Ara Darzi, Steven Riley, Christl A Donnelly†, Paul Elliott†, in collaboration with the COVID-19 Genomics UK consortium. **SARS-CoV-2 infection and vaccine effectiveness in England (REACT-1): a series of cross-sectional random community surveys** *Lancet Resp Med* Published Online January 24, 2022

<https://doi.org/10.1016/S2213-2600(21)00542-7>

\* Fowlkes A, Gaglani M, Groover K, Thiese MS, Tyner H, Ellingson K; HEROES-RECOVER Cohorts. **Effectiveness of COVID-19 Vaccines in Preventing SARS-CoV-2 Infection Among Frontline Workers Before and During B.1.617.2 (Delta) Variant Predominance** - Eight U.S. Locations, December 2020-August 2021. *MMWR Morb Mortal Wkly Rep.* 2021 Aug 27;70(34):1167-1169.

\* The latest articles in publishing will be posted additionally by the end of March

1. **Digital technology in COVID-19 pandemic**

\*Mbunge E, Akinnuwesi B, Fashoto SG, Metfula AS, Mashwama P. **A critical review of emerging technologies for tackling COVID-19 pandemic.** *Hum Behav Emerg Technol*. 2020 Dec 1:10.1002/hbe2.237.

\* The latest articles in publishing will be posted additionally by the end of March

1. **Typology in national responses in different countries: comparative review**

\* Haldane V, De Foo C, Abdalla SM, Jung AS, Tan M, Wu S, Chua A, Verma M, Shrestha P, Singh S, Perez T, Tan SM, Bartos M, Mabuchi S, Bonk M, McNab C, Werner GK, Panjabi R, Nordström A, Legido-Quigley H. **Health systems resilience in managing the COVID-19 pandemic: lessons from 28 countries**. *Nature- Medicine*. 2021 Jun;27(6):964-980. (cf. Re-visiting the same article of the required article for 2nd week)

\* Lewis, Dyani. **Why many countries failed at COVID contact-tracing -- but some got it right.** *Nature*, vol. 588, no. 7838, 17 Dec. 2020, pp. 384+. Gale OneFile: Health and Medicine

1. **Better practices in COVID-19 national responses**

\* Jefferies S, French N, Gilkison C, Graham G, Hope V, Marshall J, McElnay C, McNeill A, Muellner P, Paine S, Prasad N, Scott J, Sherwood J, Yang L, Priest P. **COVID-19 in New Zealand and the impact of the national response: a descriptive epidemiological study**. *Lancet Public Health*. 2020 Nov;5(11):e612-e623.

\* Oh J, Lee JK, Schwarz D, Ratcliffe HL, Markuns JF, Hirschhorn LR. **National Response to COVID-19 in the Republic of Korea and Lessons Learned for Other Countries.** *Health Syst Reform*. 2020 Jan 1;6(1):e1753464

\*De Foo C, Grépin KA, Cook AR, Hsu LY, Bartos M, Singh S, Asgari N, Teo YY, Heymann DL, Legido-Quigley H. **Navigating from SARS-CoV-2 elimination to endemicity in Australia, Hong Kong, New Zealand, and Singapore.** *Lancet*. 2021 Oct 30;398(10311)

1. **Revisiting SDG predetermined prior to COVID pandemic when pandemic goes on**

\* Melissa Leach, Hayley MacGregor, Ian Scoones, Annie Wilkinson, **Post-pandemic transformations: How and why COVID-19 requires us to rethink development**, *World Development,* Volume 138, 2021,105233

\* Qiang Wang, Rui Huang, **The impact of COVID-19 pandemic on sustainable development goals – A survey**, *Environmental Research*, Volume 202, 2021, 111637

\* Charis M. Galanakis, Gianluca Brunori, David Chiaramonti, Robert Matthews, Calliope Panoutsou, Uwe R. Fritsche, **Bioeconomy and green recovery in a post-COVID-19 era**, *Science of The Total Environment*,

Volume 808, 2022, 152180

1. **Limitation of global governance in pandemic response: history, science, governance vs politics**

\* Articles will be posted by the end of April

1. **Dilemmas, controversies, ethical issues, trade-off, and priority setting in national and global development in the era of recurrent pandemic**

\* Ioana-Elena Oana, Alessandro Pellegata & Chendi Wang (2021) **A cure worse than the disease?** **Exploring the health-economy trade-off during COVID-19**, *West European Politics*, 44:5-6, 1232-1257

\* Hoshi, K., Kasahara, H., Makioka, R., Suzuki, M., Tanaka, S., 2021. **Trade-off between job losses and the spread of COVID-19 in Japan.** *The Japanese Economic Review* 72, 683–716. doi:10.1007/s42973-021-00092-w

\* Carlos Mena, Antonios Karatzas, Carsten Hansen, **International trade resilience and the Covid-19 pandemic**, *Journal of Business Research*, Volume 138, 2022, Pages 77-91

1. **In-class multi-disciplinary panel discussion: Resilience and volution to healthy and safe socioeconomic environment**

\*Carmen Guida, Gerardo Carpentieri, **Quality of life in the urban environment and primary health services for the elderly during the Covid-19 pandemic: An application to the city of Milan (Italy),** *Cities*, Volume 110, 2021, 103038

\* M. Mofijur, I.M. Rizwanul Fattah, Md Asraful Alam, A.B.M. Saiful Islam, Hwai Chyuan Ong, S.M. Ashrafur Rahman, G. Najafi, S.F. Ahmed, Md. Alhaz Uddin, T.M.I. Mahlia, **Impact of COVID-19 on the social, economic, environmental and energy domains: Lessons learnt from a global pandemic**, *Sustainable Production and Consumption*, Volume 26, 2021, Pages 343-359

\* Guest panel will be invited to the class

1. **Development with Smart Health City as an alternative sustainable development**

\* Gautam, S., Hens, L. **COVID-19: impact by and on the environment, health and economy.** *Environ Dev Sustain* 22, 4953–4954 (2020).

\* Orben A, Tomova L, Blakemore SJ. **The effects of social deprivation on adolescent development and mental health.** *Lancet Child Adolesc Health*. 2020 Aug;4(8):634-640.

\* Kamyar Hasanzadeh, Marketta Kyttä, Johanna Lilius, Samira Ramezani, Tiina Rinne, **Centricity and multi-locality of activity spaces: The varying ways young and old adults use neighborhoods and extra-neighborhood spaces in Helsinki Metropolitan Area**, *Cities*, Volume 110, 2021, 103062

\* Ming Hu, Jennifer D. Roberts, Gesine Pryor Azevedo, David Milner**, The role of built and social environmental factors in Covid-19 transmission: A look at America’s capital city**, *Sustainable Cities and Society*, Volume 65, 2021, 102580

1. **Student Cases Study Peer-review**

\* Submitted class students’ case study will be shared for peer-review and peer-review scoring

# Grading in detail

[20%] Attendance and in-class discussion participation

[30%] Select one of your favorite countries (by the end of March); Investigate its COVID-19 response log & List and describe most vulnerable population and/or sectors in the selected country (mid-term report; by the end of April); and In-class presentation from 5th week to 14th week

[50%] Amend and improve the response of the selected country towards (making your own) better development plan with safer and healthier living and working environment (Final report)

# Country case presentation will be at 5-6pm every week from 5th week to 14th week at the last class activity of each class by sequential participation of all students or by overseas special guest lecturers