

## Equity in guideline development: Application in living eCOVID-19 recommendation map

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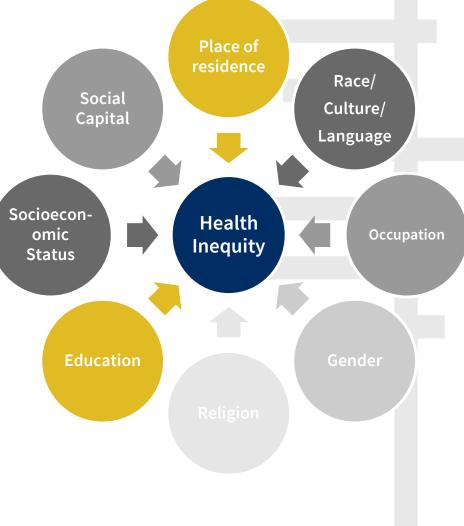
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# What are health inequities?

- Health inequities are defined as differences in health that are avoidable and also considered unfair or unjust.
- PROGRESS-Plus Acronym tool to identify dimensions which inequities may exist.
- Health inequities are present both between and within countries for many health-related issues, such as noncommunicable diseases, communicable diseases, and injuries.





## TB is very prevalent in indigenous communities, with an infection rate 290

times higher than the for non-indigenous people in Canada.





# Guideline recommendations can unintentionally increase health inequities

• Clinical Practice Guidelines have focused primarily on the effectiveness of interventions

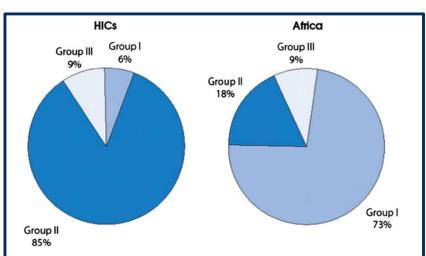


Fig. 1. Comparison of burden of disease in high income countries and Africa. Group I—communicable diseases such as AIDS and pneumonia, maternal, perinatal, nutritional conditions; Group II—noncommunicable diseases such as heart disease and diabetes; Group III—injuries [8].

## Across country inequities: greatest burden of disease in rich countries was due to degenerative diseases

Prevalence	rates for obesity and under-nutrition	
in an urban	and rural area in the Philippines	

Region	% Overweight	% Undernourished
Urban <sup>a</sup>	33.7	21.9
Rural <sup>b</sup>	15.0	36.8

Source: Ref. [10].

- <sup>a</sup> National Capital Region.
- <sup>b</sup> Autonomous Region of Muslim Mindanao.

## Within country inequities:

under-nutrition as the pre-eminent problem in the rural settings

> Dans AM, Dans L, Oxman AD, Robinson V, Acuin J, Tugwell P, Dennis R, Kang D. Assessing equity in clinical practice guidelines. J Clin Epidemiol. 2007 Jun;60(6):540-6. doi: 10.1016/j.jclinepi.2006.10.008. Epub 2007 Jan 18. PMID: 17493507.



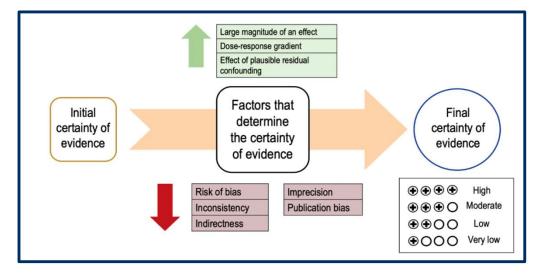
# **Action against health inequities**

- Global prevalence of health inequities drove it to be universally considered as a relevant principle to clinical/public health practice and health policy.
- Global organizations pledged to address health inequities.



# **GRADE and evidence to decision (EtD)**

- The Grading of Recommendations Assessment, Development and Evaluation (GRADE) started in 2000 as an informal group interested in addressing shortcomings of grading system in health care.
- GRADE group developed the EtD framework that consists of 12 criteria and explicitly includes impact on health equity as a criterion.



https://www.medwave.cl/link.cgi/E nglish/Reviews/MethodlogicalNote s/8110.act



# **Evidence to decision (EtD) table**

Criteria	Question and Judgments	Research evidence
Priority of the problem	Is the health problem a priority?	
Benefits and harms	How substantial are the desirable and undesirable anticipated effects?	
Certainty of the evidence	What is the overall certainty of the evidence of effects?	
Outcome importance	Is there important uncertainty about or variability in how much people value the main outcomes?	
Balance	Does the balance between desirable and undesirable effects favour the intervention or the comparison?	
Resource use	How large are the resource requirements (costs)?	
Equity	What would be the impact on health equity? E.g. Decreased, Uncertain, Increased	
Acceptability	Is the intervention acceptable to key stakeholders? E.g. Yes, No, Varies, Uncertain	
Feasibility	Is the intervention feasible to implement? E.g. Yes, No, Varies, Uncertain	



# Guidance by GRADE-Equity Working Group

## **Guideline development**

- Setting priorities
- Guideline group membership
- Identifying target audience
- Generating guideline question
- Considering importance of outcomes
- Deciding on evidence
- Summarizing evidence
- Wording recommendation
- Evaluation

## **Certainty of evidence**

- Population level inequalities
- Patient important outcomes
- Assessing subgroup effects
- Differences in baseline risk
- Generalizability



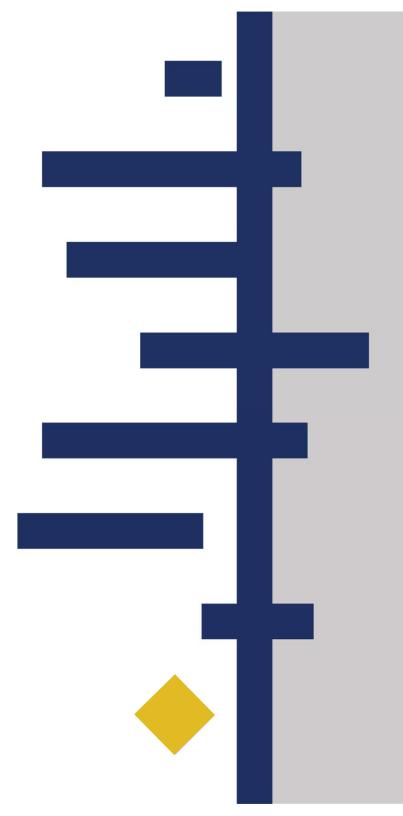
# Guidance by GRADE-Equity Working Group: Consider Equity in all EtD criteria

Criteria	Question and Judgments	Equity consideration
Priority of the problem	Is the health problem a priority?	Disease disproportionally affect certain populations
Benefits and harms	How substantial are the desirable and undesirable anticipated effects?	Benefits and harms may differ across groups
Certainty of the evidence	What is the overall certainty of the evidence of effects?	Body of evidence may not apply to certain groups
Outcome importance	Is there important uncertainty about or variability in how much people value the main outcomes?	Disadvantaged populations may value the main outcomes differently
Balance	Does the balance between desirable and undesirable effects favour the intervention or the comparison?	Informed by three previous criteria
Resource use	How large are the resource requirements (costs)?	Cost effectiveness and resource requirements vary by setting
Equity	What would be the impact on health equity? E.g. Decreased, Uncertain, Increased	Differential effects on disadvantaged populations
Acceptability	Is the intervention acceptable to key stakeholders? E.g. Yes, No, Varies, Uncertain	Differences in acceptability between groups
Feasibility	Is the intervention feasible to implement? E.g. Yes, No, Varies, Uncertain	Differences in feasibility of carrying out intervention between groups



## Equity in the eCOVID19 Recommendations map

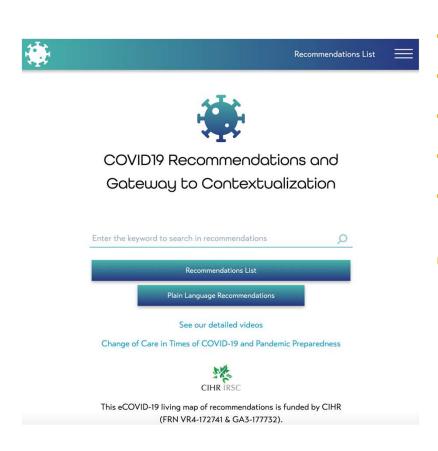
Tamara Lotfi







## eCOVID-19 living recommendations map



- Provide decision-makers and other stakeholders (including patient representatives, the public, and users of recommendations) with:
  - an easy-to-navigate
  - living
- freely accessible
- electronic platform that includes
- all available trustworthy COVID-19 recommendations
- Identify COVID-19 recommendations, critically appraise them, and make them available for contextualization and implementation by decision-makers across the globe





COVID19 Recommendations





# Living eCOVID-19 recommendations map

COVID19 Recommendations	Recommendations map	Recommendations List	=
Enter the keyword to search in recommendations 🔎		Source	
Good Practice Statement According to the European Centre for Disease Prevention and Control (ECDC), substances of human origin (SoHC)	See more ) establishments	Publication Year	•
should inform donors of the nature and clinical signs of COVID-19, transmission risks and related donation restricti COVID-19 transmission during the SoHO donation process and infection prevention and control measures to be tal establishments need to be specifically clarified.	· · ·	Adapted	•
Recommendation As long as guarantine is not arbitrary, has a sound scientific basis, and is applied consistently, reasonably, transparents	See more	AGREE II score	•
safe and sanitary manner, and in full compliance with the International Health Regulations (IHR), the potential bene of the receiving population may warrant temporary restrictions on freedom of movement for arriving travellers.	efit to the public health	World region	•
<ul> <li>⊕ ⊕ ⊖ ○ ○</li> <li>↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓</li></ul>	Conditional	Age group	
Additional Guidance The use of portable air filtration devices with high-efficiency particulate air (HEPA) filter devices could be considered protection in situations where enhancing natural or mechanical ventilation is not possible and when physical distant devices with high-efficiency particulate air (HEPA) filter devices could be considered protection in situations where enhancing natural or mechanical ventilation is not possible and when physical distant devices with high-efficiency particulate air (HEPA) filter devices could be considered protection.		Coexisting condition	
achieved.		Intended population	-
Additional Guidance When rooms are in use, maximum ventilation rates must be maintained regardless of the number of occupants.	<u>See more</u>	Plain Language Recommendation	

https://covid19.recmap.org/recommendation/ccfb0468-3bbd-4ba7-a1dd-f5cdd6a10e3c



# Living eCOVID-19 recommendations map

## Map view

COVID19 Reco	mm	endations							Recommende
inter the keyword to search in recommendations $\mathcal{O}$ Instructions									FILTERS
All		Infection control	Vaccination	Screening	Diagnosis	Treatment and rehabilitation	Prognosis	Planning and monitoring	Health services and systems
COVID-19 confirmed	96	159	38	15	28	645	1	48	62
Public	81	245	176	15	9	9		68	59
Educational establishment	90	284	12	18	10	4		93	69
COVID-19 suspected	67	228	10	23	73	63	1	28	41
Healthcare professional	07	180	103	6	6	16		33	63
At high risk for COVID-19	29	81	69	11	10	19		28	11
Hospital	19	38	15	3	4	122		5	32
School	10	120	8	8				68	6
Public health officer	66	30	31					47	57
National government top managers	64	16	26		2			57	62
Healthcare facility	60	82		3	2			13	58
Healthcare service manager	57	7	50		2			32	66



	ations map Recommendations List	
	Coexisting condition	-
56	Intended population	
	Plain Language Recommendation	•
	Recommendation type	
6	Recommendation intent	
		<u> </u>
80	PROGRESS	•
73	PLUS	
	income	<u> </u>
21		-

### PROGRESS



#### Religion (22)

Socio-Economic Status (132)

Social capital (61)

### PLUS.

#### Any

Features of relationships (e.g. smoking parents, excluded from school) (30)

Personal characteristics associated with discrimination (e.g. age, disability) (459)

Time-dependent relationships (e.g. leaving the hospital, respite care, other instances where a person may be temporarily at a disadvantage) (61)



### Guidelines addressing PROGRESS



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Guidelines addressing PLUS



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Pregnancy	5		×	Intended population
Public		Additional Guidance	Highlight	Plain Language Recommendation
thcare service manager		Accordantly to SMFM, vaccination should not be given if the recipient is acute ill.	ly	
Neonate	8	(a) Additional Guidance	(11)	Recommendation type
Breastfeeding		Vaccination should be offered regardless of history of prior symptomatic or asymptomatic SARS-CoV-2 infection	Highlight	Recommendation intent
COVID-19 confirmed				
Refugee		Recommendation	Highlight	PROGRESS
Country Government		The National Advisory Committee on Immunization (NACI) and the Public He Agency of Canada (PHAC) recommend that a complete vaccine series with an mRNA COVID-19 vaccine should be offered to individuals in the authorized a group who are pregnant or breastfeeding. Informed consent should include		PLUS
Healthcare facility		discussion about emerging evidence on the safety of mRNA COVID-19 vaccin in these populations.	es	Time-dependent relationships
Hospital		Certainty of evidence     Recommendation stre       ⊕ ⊕ ○ ○     Low       ✓ strong	ngth	

heat map



				-			Coexisting condition	
Infection control	Vaccination	Screening	Diagnosis	Treatment and rehabilitation	Prognosis	Planning and monitoring		<b>•</b>
							Intended population	
4						×		•
	🜔 Good Practi	ice Statement				Highlight	Plain Language Recommendation	
	settings with h	igh population densi	ities, where physi	mps, prisons, slums, cal distancing is not as outlined in the V			Recommendation type	•
	Health Organiz	ation (WHO) Priori	tization Roadmap	, taking into accoun ant considerations.	t national			•
	cpidemiologica	ii data, vaccine supp					Recommendation intent	_
		~		· · · · · · · · · · · · · · · · · · ·	N			<b>_</b>
						7	PROGRESS	
							Race/ethnicity/culture/language	<u> </u>
							PLUS	-
						3	Income	



control

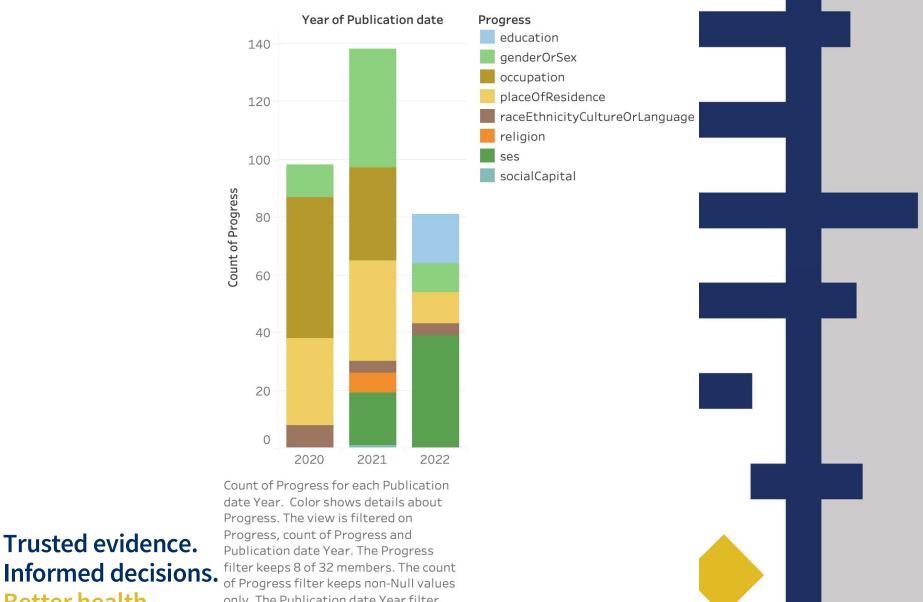
	FILTERS	Clear	_
Vaccination Screening Diagnosis Treatment and Prognosi	s Planning and	Coexisting condition	
Good Practice Statement The Advisory Committee on Immunization Practices (ACIP) recommended that in Phase 1b, vaccine should be offered to persons aged ≥75 years and frontline essential workers (non-health care workers).	Highlight	Intended population          Intended population         Plain Language Recommendation	
<b>Good Practice Statement</b> The Advisory Committee on Immunization Practices (ACIP) recommended that, when a COVID-19 vaccine is authorized by FDA and recommended by ACIP, both 1) health care personnel and 2) residents of long-term care facilities (LTCFs) be offered vaccination in the initial phase of the COVID-19 vaccination program (Phase 1a).	Highlight	Recommendation type Recommendation intent PROGRESS Occupation (2)	
		PLUS  Income	



	○ × Instructions				FILTERS	Clear
ntrol	Vaccination Screening	Diagnosis	Treatment and rehabilitation	Prognosis	Planning and monitoring	Coexisting condition
						Intended population
	Additional Guidance Authorities should leverage of COVID-19-related informati among migrant worker comm	ion in culturally and li			Highlight	Plain Language Recommendation Plain Language Recommendation Recommendation type Recommendation intent PROGRESS
						PROGRESS Social capital (1) PLUS Income

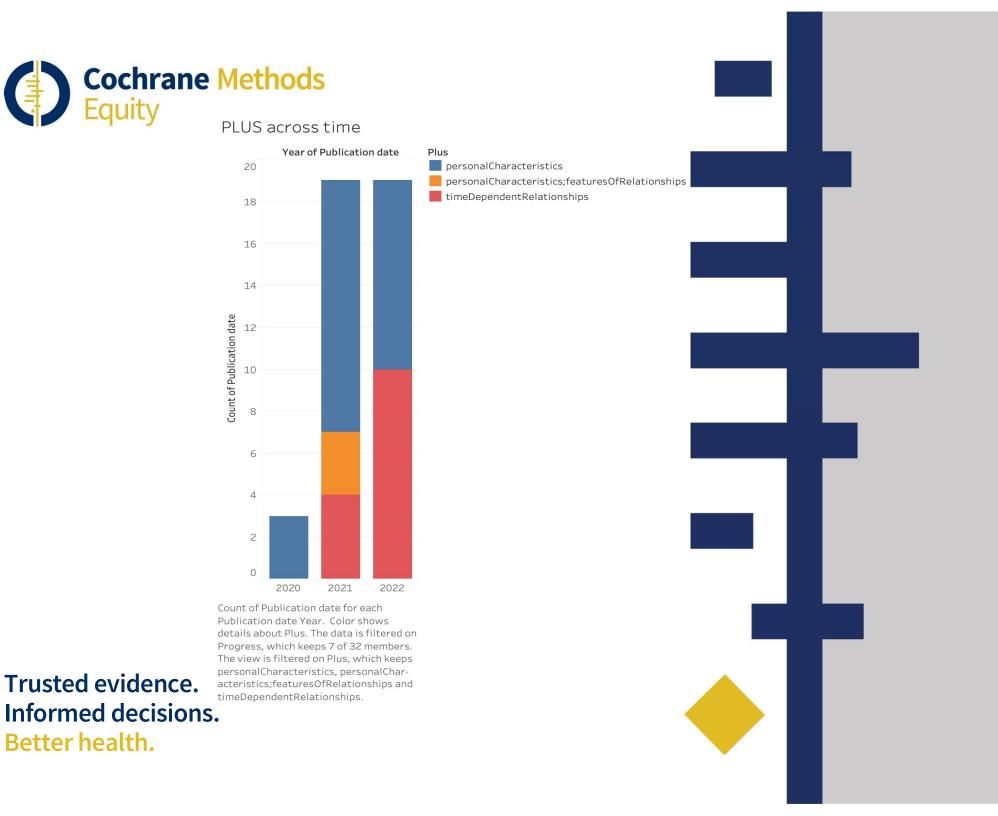


### **PROGRESS** across time



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Publication date Year. The Progress only. The Publication date Year filter keeps 2020, 2021 and 2022.







# Upcoming work: Equity in the development of eCOVID-19 recommendations

 Assess the guidelines, organizational guideline development manuals and recommendations for equity considerations across the 18 GIN-McMaster Guideline development topics 18 topics from the GIN-McMaster Guideline Development Checklist Organization, budget, planning and training

#### **Priority setting**

Guideline Group Membership

**Establishing Guideline Group Processes** 

Identifying Target Audience and Topic Selection

Consumer and Stakeholder Involvement

Conflict of Interest Considerations

PICO Question Generation

Considering importance of Outcomes and Interventions, Values, Preferences and Utilities

Deciding what Evidence to Include and searching for Evidence

Summarizing and Evidence to Include and Searching for Evidence

Summarizing Evidence and Considering Additional Information

Judging Quality, Strength or Certainty of a Body of Evidence

Developing Recommendations and Determining their Strength

Wording of Recommendations and of Considerations of Implementation, Feasibility and Equity

**Reporting and Peer Review** 

Dissemination and Implementation

**Evaluation and Use** 

Updating





GRADE equity guidelines 1: considering health equity in GRADE guideline development: introduction and rationale. Vivian Welch et al. https://doi.org/10.1016/j.jclinepi.2017.01.014

GRADE equity guidelines 2: considering health equity in GRADE guideline development: equity extension of the guideline development checklist. Akl et al. https://doi.org/10.1016/j.jclinepi.2017.01.017

GRADE equity guidelines 3: considering health equity in GRADE guideline development: rating the certainty of synthesized evidence. Welch et al. https://doi.org/10.1016/j.jclinepi.2017.01.015

GRADE equity guidelines 4: considering health equity in GRADE guideline development: evidence to decision process. Kevin Pottie et al. https://doi.org/10.1016/j.jclinepi.2017.08.001

## eCOVID19 RecMap

Https://covid19.recmap.org