

COVID-19 and Cancer Taskforce

COVID-19 and Cancer Global Modelling Consortium (CCGMC)

Whole Consortium Call 21st /22nd April 2021

The call will start at 03:00 ET / 08:00 BST / 09:00 CEST / 10:00 EAT / 17:00 AEST

While waiting, please introduce yourself via the comments - including your name, institution, country, and professional background.

Secretariat email: covidandcancer@nswcc.org.au



COVID-19 and Cancer Taskforce

COVID-19 and Cancer Global Modelling Consortium (CCGMC)

Whole Consortium Call 21st /22nd April 2021

The call will start at 16:00 US ET / 21:00 BST / 22:00 CEST / 23:00 EAT / 06:00 AEST

While waiting, please introduce yourself via the comments - including your name, institution, country, and professional background.

Secretariat email: covidandcancer@nswcc.org.au



Aims of today's call

1. Updates from each working group on activities and emerging findings
2. Open discussion on establishing a CCGMC 'COVID & cancer observatory'
3. Flag new opportunities to participate in SR projects

Please use the chat function to log questions and comments through the session for later consideration

Agenda (session 1)

1. Welcome and Introductions – 5mins

Dr Freddie Bray (IARC), Dr Isabelle Soerjomataram (IARC) & Prof Karen Canfell (Daffodil Centre, University of Sydney/CCNSW)

2. Update on COVID-19 & Cancer Taskforce, snapshot of the impact on cancer patients – 5mins

Prof Richard Sullivan (KCL)

3. Overview of current consortium status – 5 mins

Prof Karen Canfell (Daffodil Centre, University of Sydney/CCNSW)

4. Update on Working Group activities - 20 mins

a. Working Group 1 – Treatment

I. Key available data

II. SurvMark analysis

III. Covid and cancer SRs results

IV. Global modelling platform progress update

- Data mapping exercise/ inputs plan across cancers, countries & data sources
- Joint presentation with WHO: modelling work on COVID and cancer

b. Working Group 2 – Screening

I. ICSN update – A/Prof Iris Lansdorp Vogelaar (Erasmus University)

II. Project team updates (CRC, Cervix, Breast)

c. Working Group 3 – Prevention

5. Open discussion: Proposed CCGMC ‘COVID & cancer observatory’ – 15mins

Moderated by Prof Karen Canfell & Dr Isabelle Soerjomataram

Agenda (session 2)

1. Welcome and Introductions

Prof Karen Canfell (Daffodil Centre, University of Sydney/CCNSW), A/Prof Iris Lansdorp-Vogelaar (Erasmus University), Dr Ophira Ginsburg (NYU) & Rami Rahal (CPAC)

2. Overview of current consortium status and update

Prof Karen Canfell (Daffodil Centre, University of Sydney/CCNSW)

3. Update on Working Group activities

a. Working Group 1 – Treatment

- I. Key available data
- II. SurvMark analysis
- III. Covid and cancer SRs results
- IV. Global modelling platform progress update
 - Data mapping exercise/ inputs plan across cancers, countries & data sources
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b. Working Group 2 – Screening

- I. ICSN update
- II. Project team updates (CRC, Cervix, Breast)

c. Working Group 3 – Prevention

4. Update on COVID-19 & Cancer Taskforce, snapshot of the impact on cancer patients – 5mins

Prof Richard Sullivan (KCL)

5. Next steps

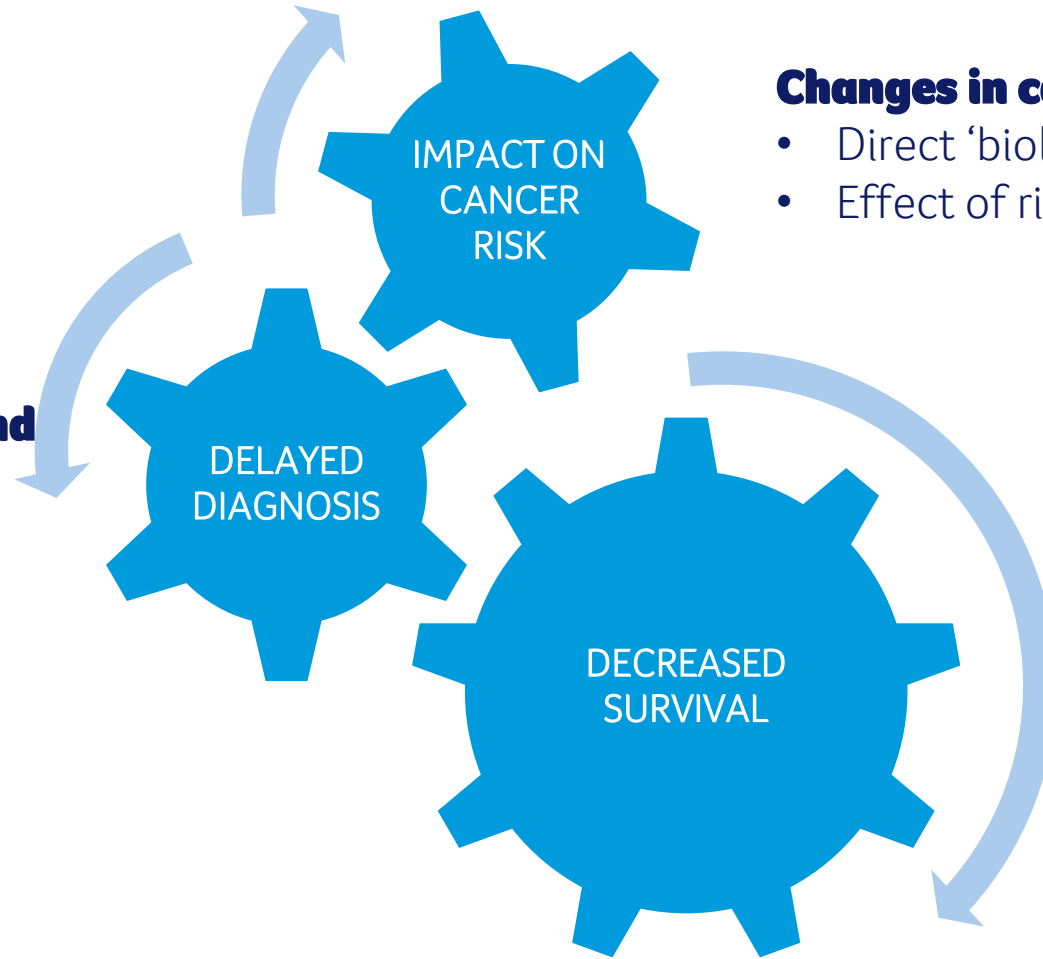
2. Overview of current Consortium status.



Overview of working groups

Changes in cancer detection and staging (WG1&2):

- Disruptions to screening programs (WG2)
- Delays in symptomatic presentation (WG1)



Changes in cancer risk (WG3):

- Direct 'biological' impact on risk
- Effect of risky behaviours during the crisis

Changes in cancer outcomes (WG1):

- Impact of treatment disruptions
- Direct 'biological' impact on survival
- Effects on co-morbid conditions
- Competing mortality risk from infection

Key publications to highlight

de Jonge, L.* , Worthington, J.* et al. (2021). **Impact of the COVID-19 pandemic on faecal immunochemical test-based colorectal cancer screening programmes in Australia, Canada, and the Netherlands: a comparative modelling study.** The Lancet Gastroenterology & Hepatology. [http://doi.org/10.1016/S2468-1253\(21\)00003-0](http://doi.org/10.1016/S2468-1253(21)00003-0) (*joint first authors)

Ginsburg O., Basu P., Kapambwe S., & Canfell K.(2021) **Eliminating cervical cancer in the COVID-19 era.** Nature Cancer, 2(2), 133-134. <http://doi.org/10.1038/s43018-021-00178-9>

For CCGMC-related publication updates please visit:
<https://ccgmc.org/publications/>



Publications in draft/under review

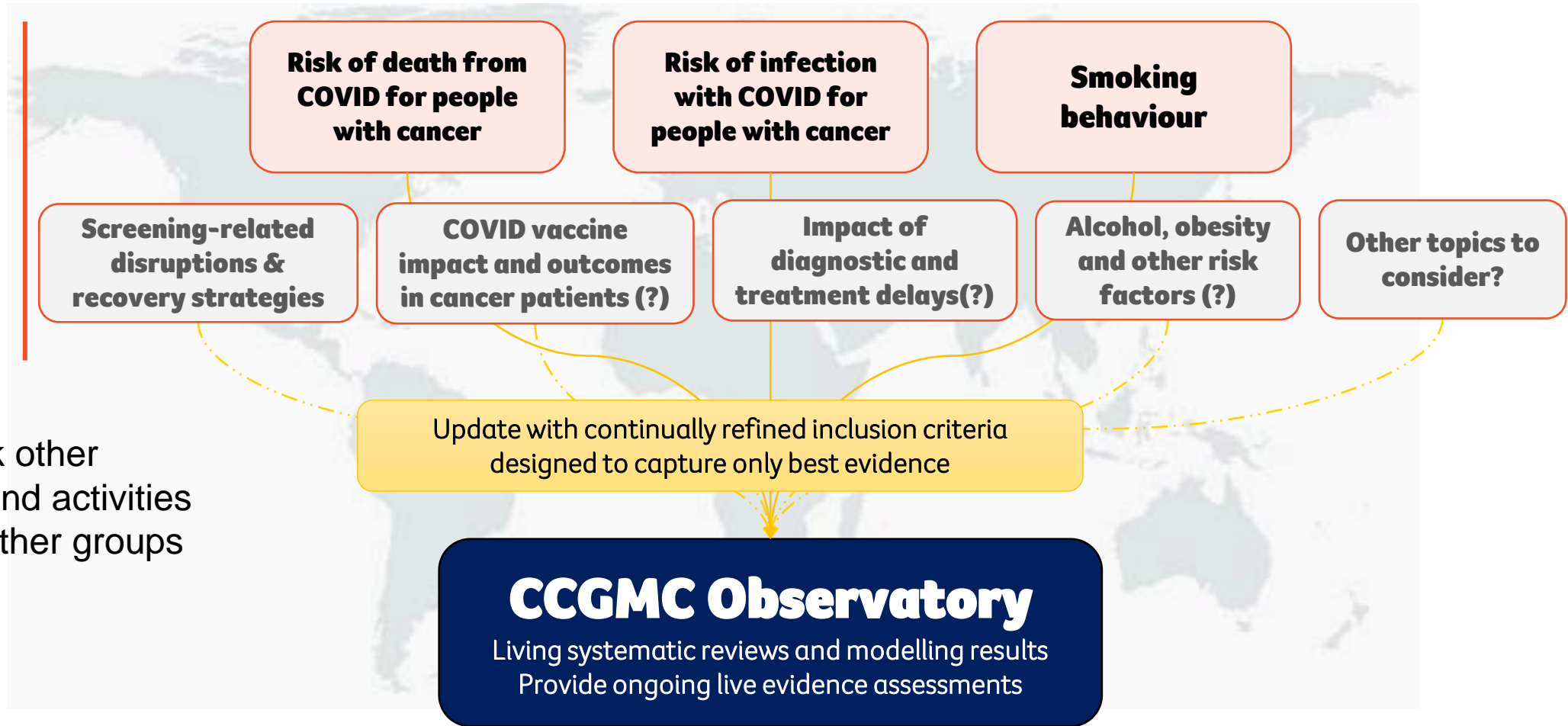
- Editorial/perspective piece – rationale and aims of the CCGMC (targeted at Lancet Oncology)
- **Working Group 1:**
 - International SRs of COVID risk and mortality for people with pre-existing cancer diagnosis
- **Working Group 2:**

Invited overview of screening impact across programs (Prev Med)

 - Cervical HIC (Prev Med)
 - Breast (Prev Med)
 - CRC (Project 2: Lancet Public Health)
- **Working Group 3:**
 - International SR on smoking behavior change

Establishing a CCGMC 'COVID & cancer' observatory

Initial systematic reviews and modelling & potential extensions to current work



Facility to track other relevant SRs and activities underway by other groups

Opportunities for engagement

Setting up new SR working group:

- Phase 2 for SRs:
 1. Impact of COVID on mortality for people with cancer
 2. Risk of Infection of COVID for people with cancer
 3. Lifestyle changes during pandemic (smoking behaviour)
- Current # of members signed up: ~40 members
- Proposed frequency & timing of meeting: every fortnight
- Expected time commitments

SR under consideration: Vaccine & cancer, Impact of diagnostic and treatment delay for cancer patients (based on Hanna et al BMJ 2020)

If you are interested in participating and haven't completed an EOI yet, please contact: covidandcancer@nswcc.org.au

Any further comments/suggestions?

Inputs welcome

- ❖ Suggestions for priority topics for the CCGMC Observatory
- ❖ Configuring capacity building and training opportunities

**Please use the chat box for comments or
contact the Secretariat**



3. Update on Working Group activities.



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The Daffodil Centre

WG1 – Treatment & outcomes

Overview

1. Key available data
2. SurvMark analysis
3. Covid and cancer SRs results
4. Global modelling platform progress update
 - Data mapping exercise/ inputs plan across cancers, countries & data sources
 - Joint presentation with WHO: modelling work on COVID and cancer

COVID-19 and Cancer Systematic Reviews

Two systematic reviews, including critical appraisal, of the early literature:

1. Do people with a pre-existing cancer diagnosis have a higher risk of contracting SARS-CoV-2 or developing COVID-19 ?
2. Do COVID-19 patients with cancer have a higher risk of COVID-19 death than those without cancer?

Methods:

Literature searched to July 01, 2020:

- Published: Medline, Embase
- Preprint: MedRxiv, BioRxiv, SSRN
- + citations identified

COVID and Cancer

Data and Models to support decision-making

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Root Causes, Data and Parameterization

Root Causes

What are the ways COVID-19 has impacted cancer patients



Delays in diagnosis

Treatment services
not accessible

Optimal treatment
not available



Treatment abandoned

↑ risk of death for cancer
patients contracting COVID-19



Collecting Data

(1) From WHO

3 pulse surveys
→ **Cancer significantly impacted**
but only high-level estimates & response

(2) From Studies

2 systematic reviews
→ **Substantial impact** on services
(but only 10 countries, limited strategies)

(3) From partners

eg, childhood cancer database

Model

Health impact

System impact

Financing
considerations

Mitigation
strategies



Modelling for Impact, Decision-Making

User inputs (baseline assumptions provided)

- Country cancer profile
- COVID-19 timeline
- Impact per cancer sites (14)
- Disruption (reduced coverage/abandon)
- Alterations in care (eg, reduced XRT)
- Delays in care stage distribution
- Recovery after pandemic

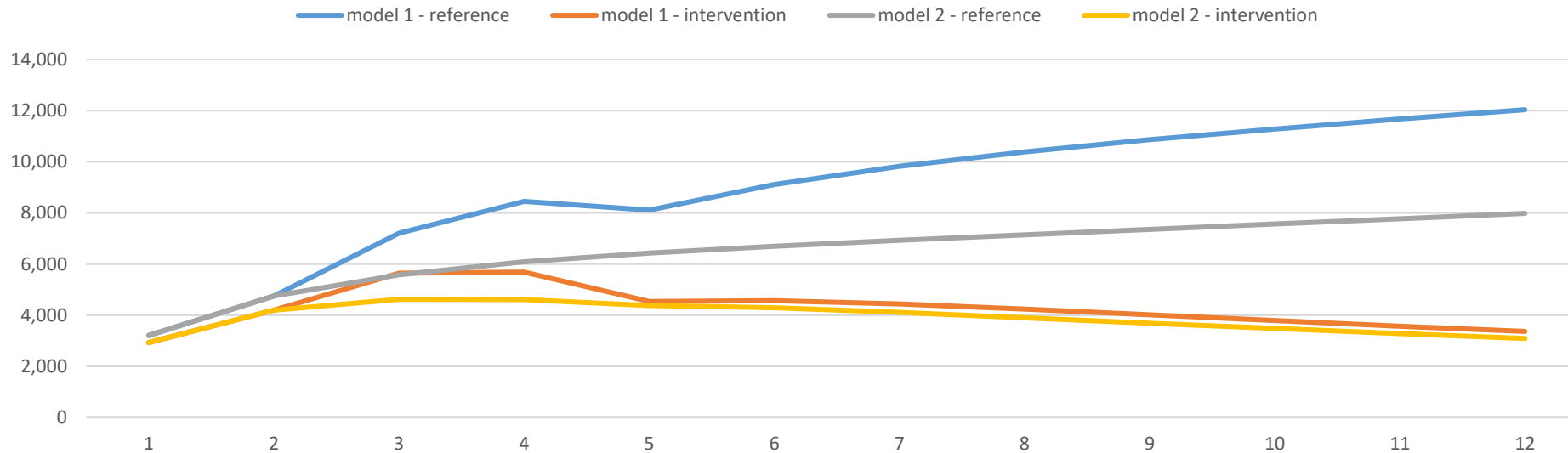
Country	Argentina
Background information	
Micro classification	0
WHO Region	AMR
ISO Code	AR
Population	44,740,275
WE Classification	Upper middle income
HDI Score	0.82
HDI Level	Very high
Population	male 1,566,852 female 1,479,214

COVID start	04/03/2020	04/03/2020
COVID ends	03/03/2021	03/03/2021
total days	364	0
years	1	2019
weighted effect	100%	
coverage effects		
	delivery reduction (%)	2019
breast	30%	20%
cervical	30%	20%
colorectal	30%	20%
liver	30%	20%
lung	30%	20%
prostate	30%	20%
stomach	30%	20%
ch1	30%	20%
ch2	30%	20%
ch3	30%	20%
ch4	30%	20%
ch5	30%	20%
ch6	30%	20%
	abandonment abandoned (%)	2019
breast	0%	20%
cervical	0%	20%
colorectal	0%	20%

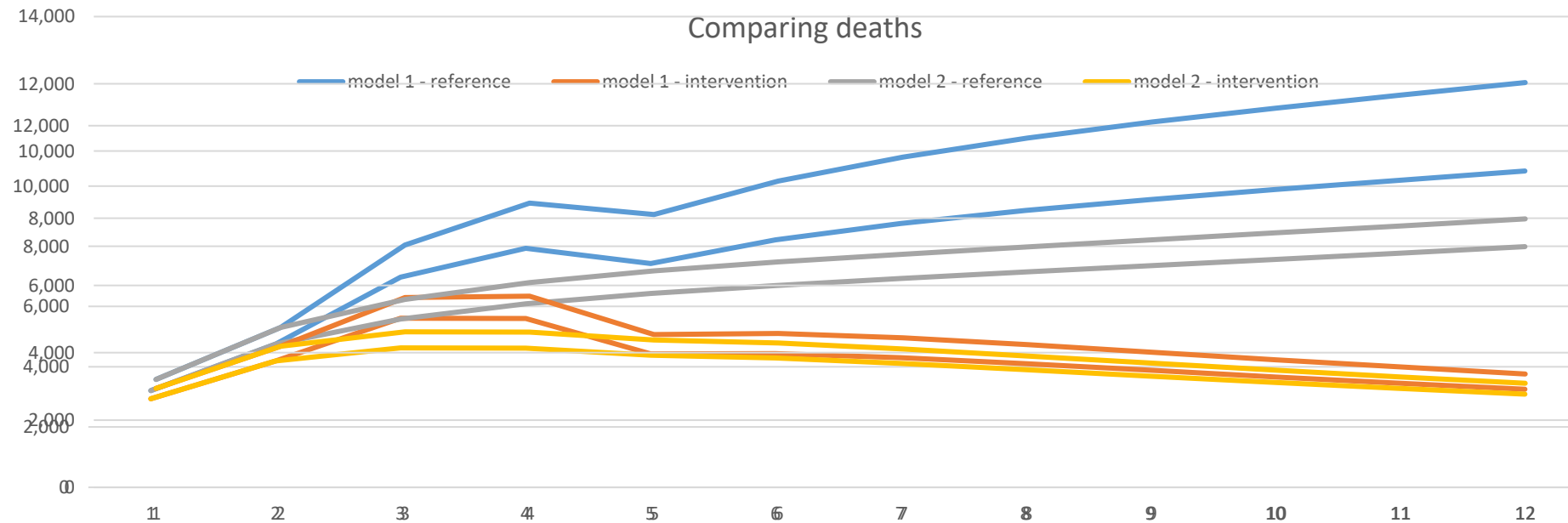


Modelling for Impact, Decision-Making

Country Estimate



Benefit Package 1 → 2
30% delivery red.



Benefit Package 1 → 2
50% delivery red.
Benefit Package 1
30% delivery red.

Translating the Evidence

Customize and Tailor

6.17 MB

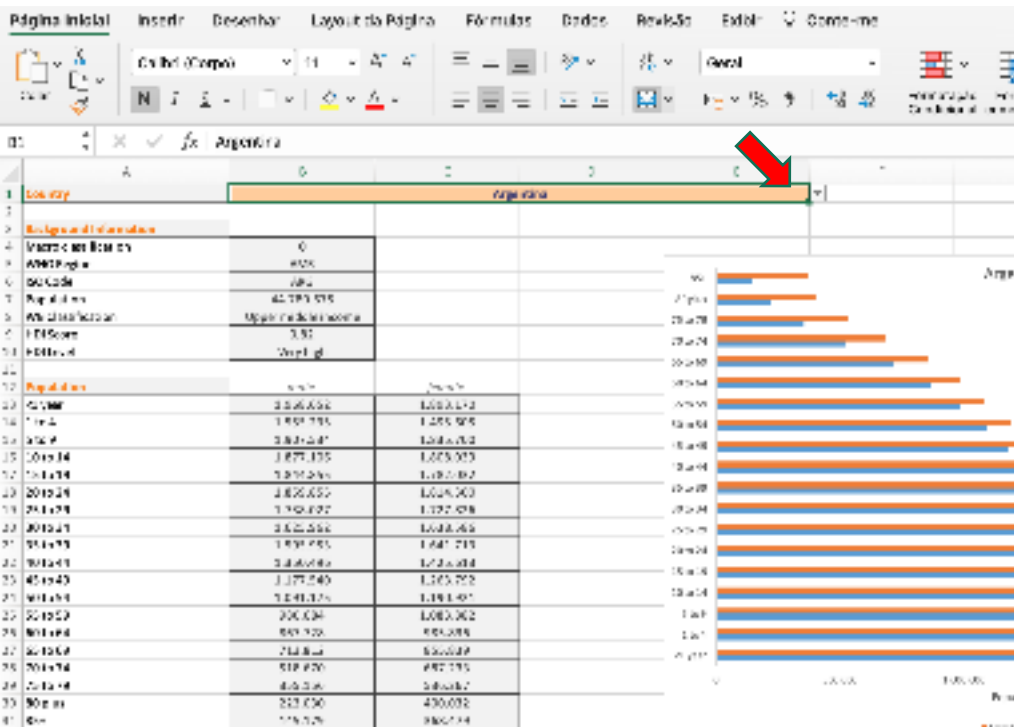
Country Cancer Profile

Download the file (Excel Format)

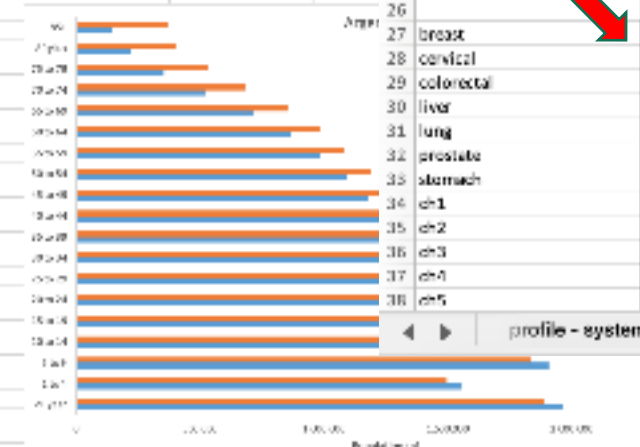
Download



- Covid-19 burden
- Cancer Sites
- Disruption (delay/abandonment)
- Stage Distribution
- Time Horizon



		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
COVID start	04/03/2020											
COVID ends	03/03/2021											
total days	361											
years	1											
weighted effect	100%											
coverage effects												
	activity											
	reduction (%)											
breast	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
cervical	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
colorectal	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
liver	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
lung	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
prostate	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
stomach	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch1	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch2	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch3	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch4	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch5	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch6	30%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
	abandonment											
	abandoned (%)											
breast	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
cervical	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
colorectal	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
liver	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
lung	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
prostate	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
stomach	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch1	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch2	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch3	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch4	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%
ch5	0%	20%	20%	25%	32%	39%	47%	54%	61%	68%	75%	83%



profile - system capacity profile - medicines impact - introduction impact - reference impact - intervention impact - covid



Sample WHO Guidance



✓ Define and **maintain or modify essential services** to mitigate impact

✓ **Adapt treatment** services for different phases

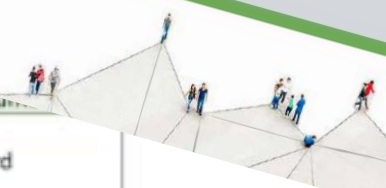
✓ Organize committee for **rapid review and improvement** cycles during pandemic phases

COVID-19

Considerations for the Reorganization of Cancer Services during the COVID-19 Pandemic

	Types of cancer, complications, and treatments
High	Rapidly evolving and lethal cancer Imminent risk of death (acute leukemias, aggressive lymphomas, metastatic germ cell tumors)
	Potential high morbidity and/or impaired quality of life (refractory pain crisis, radiation therapy for soft tissue spinal cord compression), oncological emergencies.
	Definitive curative treatments (concurrent chemotherapy for head and neck, cervical, or rectal cancer. Categorically prioritize Hodgkin's disease, diffuse large B-cell lymphoma, acute promyelocytic leukemia.
	Neoadjuvant or adjuvant treatment indications with substantial benefits in terms of overall disease-free survival (adjuvant chemotherapy for stage III colon cancer, chemotherapy or radiation therapy for high-risk breast cancer)
	Neoadjuvant or adjuvant treatment indications with modest survival benefits (adjuvant chemotherapy for bladder cancer)
	Palliative indications with substantial survival benefits (immunotherapy for melanoma, systemic therapy for metastatic breast cancer)
	Palliative indications with modest survival benefits and/or symptom control (palliative chemotherapy for gastrointestinal cancer, radiation therapy for metastatic bone cancer that is unresponsive to other treatments)
	Palliative indications with no benefits in terms of overall survival or symptom control (second- and third-line chemotherapy for solid tumors)
Low	Alternative treatments that do not affect the principal health outcomes

Maintaining essential health services: operational guidance for the COVID-19 context
Interim guidance
1 June 2020



Conclusion and Next Steps

- **Data:** ongoing collection of data (WHO, IARC, childhood cancer), systematic reviews (eg, with CCGMC)
- **Dialogue:** publishing results from model with positive messaging, in context of mitigation strategies
- **Support:** ongoing dialogues with governments
- **Collaboration:** strong **partnerships** appreciated to advance dialogue, support patients





THANK YOU

Global Modelling Platform

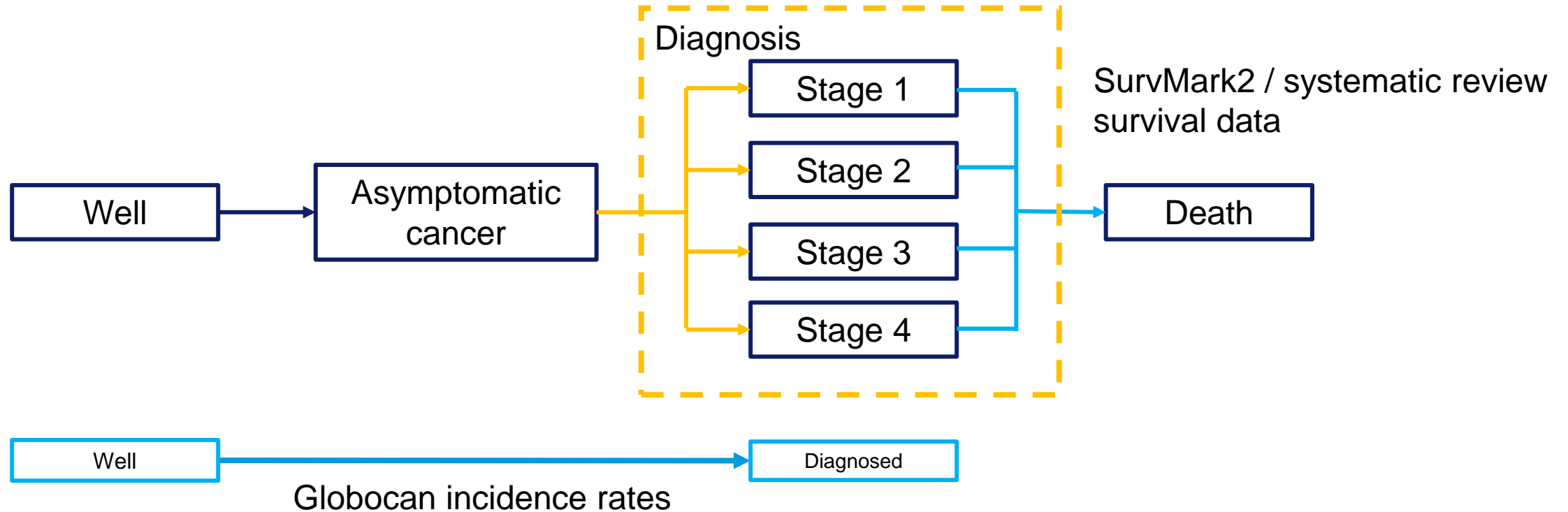
Policy1-COVID19: A survival-based simulation of cancer burden across the globe.

Spanning multiple countries and cancers.

Implementation phase 1:

- Breast cancer
- Colorectal cancer
- Lung cancer
- Cervical cancer

Model Structure & Data Sources



We will explore different **screening**, **diagnostic** & **treatment** delay scenarios for the COVID-19 pandemic.

WG2 – Screening .



ICSN update.

A/Prof Iris Lansdorp Vogelaar (Erasmus University)



WG2 – Project team updates

Overview

1. CRC project team update
2. Cervix (HIC) project team update
3. Breast project team update

CCGMC WG2 Colorectal cancer screening project team update.








CRC Screening Project 1

THE LANCET


Gastroenterology & Hepatology

ARTICLES | [VOLUME 6, ISSUE 4, P304-314, APRIL 01, 2021](#)

Impact of the COVID-19 pandemic on faecal immunochemical test-based colorectal cancer screening programmes in Australia, Canada, and the Netherlands: a comparative modelling study

[Lucie de Jonge, MSc](#)    • [Joachim Worthington, PhD](#)   • [Francine van Wifferen, MSc](#) • [Nicolas Iragorri, MSc](#) • [Elisabeth F P Peterse, PhD](#) • [Jie-Bin Lew, PhD](#) • [Marjolein J E Greuter, PhD](#) • [Heather A Smith, PhD](#) • [Eleonora Feletto, PhD](#) • [Jean H E Yong, MSc](#) • [Prof Karen Canfell, PhD](#) • [Veerle M H Coupé, PhD](#) • [Iris Lansdorp-Vogelaar, PhD](#) • on behalf of the COVID-19 and Cancer Global Modelling Consortium working group 2 •

[Show less](#) • [Show footnotes](#)

Published: February 03, 2021 • DOI: [https://doi.org/10.1016/S2468-1253\(21\)00003-0](https://doi.org/10.1016/S2468-1253(21)00003-0) •  Check for updates



CRC screening Project 2

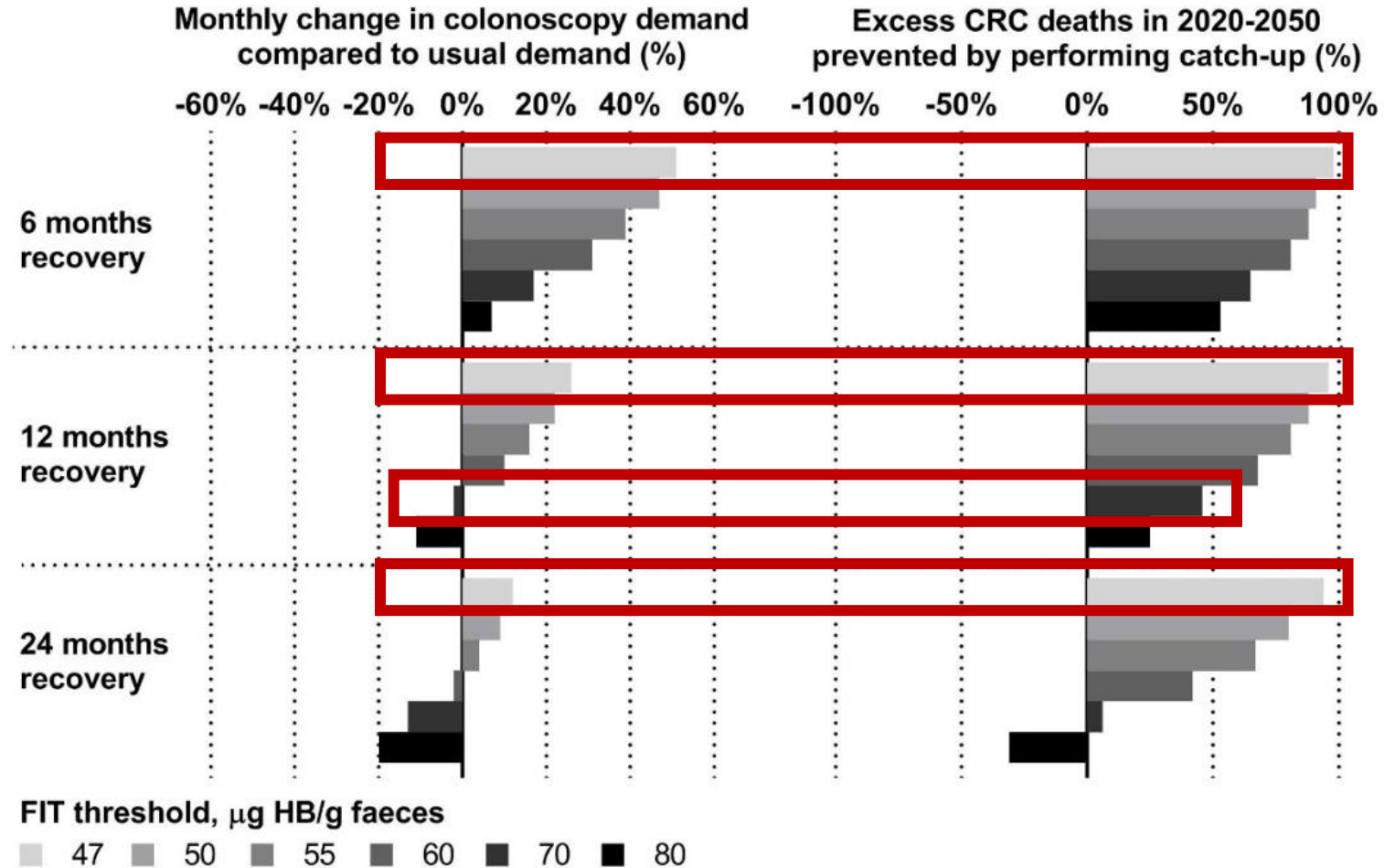
Aim: to evaluate strategies that clear the CRC screening backlog due to the COVID-19 pandemic using limited colonoscopy resources, including:

1. Performing catch-up screening at regular FIT threshold in 6, 12 & 24 months
2. Performing catch-up screening at increased FIT threshold in 6, 12 & 24 months
 - Netherlands: 47, 50, 55, 60, 70, 80 μg HB/g faeces
 - Canada & Australia: 20, 25, 30, 40, 50, 60 μg HB/g faeces

Using 4 microsimulation models (ASCCA, MISCAN-Colon, OncoSim, Policy1-Bowel) to evaluate the programs in the Netherlands, Canada and Australia.

Project 2 – selected results

A. ASCCA - the Netherlands



CRC screening Project 3

- Extension of Project 1, which used hypothetical screening pauses
- Detailed real-world screening data is becoming available, in both the modelled countries as well as other countries with comparable FIT-based screening programs (ICSN survey, information from local programs)
- We plan to expand previous analyses using this new, real-world data
- If you have any additional sources of detailed screening data that cover the period from March 2020, or other relevant data, please let us know by emailing the secretariat (covidandcancer@nswcc.org.au)

CCGMC WG2

Cervical Screening in high income countries.



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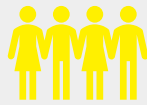


The Daffodil Centre

Team Members



Co-chaired by Dr Megan Smith, Dr Emily Burger and Dr Alejandra Castanon



About 20 people showed interest in being involved with this groups. Half join on a regular basis



Fortnightly meetings

Outputs (1)

Original research

- **Impact of disruptions and recovery for established cervical screening programs across a range of program designs, using COVID-19 as an example: a modelled analysis** Smith M.A, Burger E.A, Castanon A, de Kok I.M.C.M, Hanley J.B, Rebolj M, Hall M.T, Jansen E.E.L, Killen J, O'Farrell X, Kim J.J, Canfell K.
- *Preventive Medicine* special issue on Covid 19 and Cancer Screening, due to be published July (under review)

Outputs (2)

Viewpoint

- **Optimal cervical screening COVID-19 recovery strategies in high-income countries depend on context of current programme organisation** Castanon A, Rebolj M, Burger EA, de Kok I.M.C.M, Smith MA, Hanley S.J.B., Carozzi FM, Peacock S, and O'Mahony JF.
Lancet Public Health (Accepted)

Outputs (3)

Other dissemination opportunities

- HPV Board Meeting
- ICSN seminar
- Satellite symposium at IPV



Future directions

Current themes we are exploring

Quantify the variation in expected health gain from risk-based targeting of routine cervical screening (e.g., age and time since last screening test).

- **Limited ‘real world’ data on which to base simulations**
- **Still in the process of brain storming – ideas welcome**

CCGMC WG2 Breast cancer screening project team update.



WG2 – Screening: breast cancer

- 18 members, from 15 countries
- Joint chairs: Jonine Figueroa (U Edinburgh), Carolyn Nickson (The Daffodil Centre/University of Melbourne), Karen Canfell (The Daffodil Centre)

Group-specific aims

For various settings, in a comparative framework:

1. **Document/estimate the disruption** to breast screening due to COVID
2. **Use existing well calibrated and validated model platforms** to estimate the impact of this disruption on breast cancer incidence, delayed diagnosis (esp. staging via tumour size, nodal involvement) and mortality (additional deaths)
3. Characterise impact on **referrals to treatment services**, e.g. rates and case-mix
4. Estimate the impact and cost-effectiveness of **catch-up/adaptation strategies**

WG2 – Screening: breast cancer

Countries	Screening pauses
Australia	1 month (March-April)
Canada	~4 months (March-June), with regional variation
Germany	2 months (March- April)
Italy	2 months (March-April) – with regional variation
The Netherlands	4 Months (March- June)
United Kingdom	6 Months; March-August

Analysis (submitted as a WG manuscript):

- Summary of disruptions by country
- Summary of modelled evaluations of COVID impact on breast screening, noting differences in approach.
- Common themes - range of assumed pauses to organised breast screening (e.g. 3, 6, 9 or 12 months), focus on tumour staging and mortality as outcomes.
- Emerging cancer registry and screening program data will be valuable for future modelling
- Priorities for future modelling exercises include population level outcomes, treatment intensity, inequities within populations, high-level modelling in LMIC settings, stakeholder engagement

WG2 – Screening: breast cancer

Next steps

For various settings, in a comparative framework:

1. Document/estimate the disruption to breast screening due to COVID
2. Continue reporting and consolidating results on modeling estimates on the impact of this disruption on breast cancer incidence, delayed diagnosis (esp. staging via tumour size, nodal involvement) and mortality (additional deaths)
3. Characterise impact on referrals to treatment services, e.g. rates and case-mix
4. Estimate the impact and cost-effectiveness of catch-up/adaptation strategies

Next meeting **May 2021 (TBD)**



WG3 – Prevention

Overview

1. Systematic review of smoking behavior changes during the pandemic – progress update
2. Call for collaboration on lifestyle change surveys & data sources

Systematic review question and PECO

Research question:

Is the COVID-19 pandemic associated with changes in tobacco smoking behaviour?

Population	Exposure	Comparator	Outcome	Study design
General population/anyone or Smokers or Former-smokers or Never-smokers	COVID-19 pandemic/ lockdown	Pre COVID-19 pandemic/ lockdown	Change in tobacco smoking, e.g., Intensity or Prevalence or Frequency or Uptake/initiation or Cessation/quitting or Increase/decrease or Patterns Quit attempts and intention to quit	Cohort studies Controlled and uncontrolled before and after studies Cross-sectional studies

PROSPERO 2020 CRD42020206383 Available from: https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42020206383



Systematic review progress

Academic literature progress

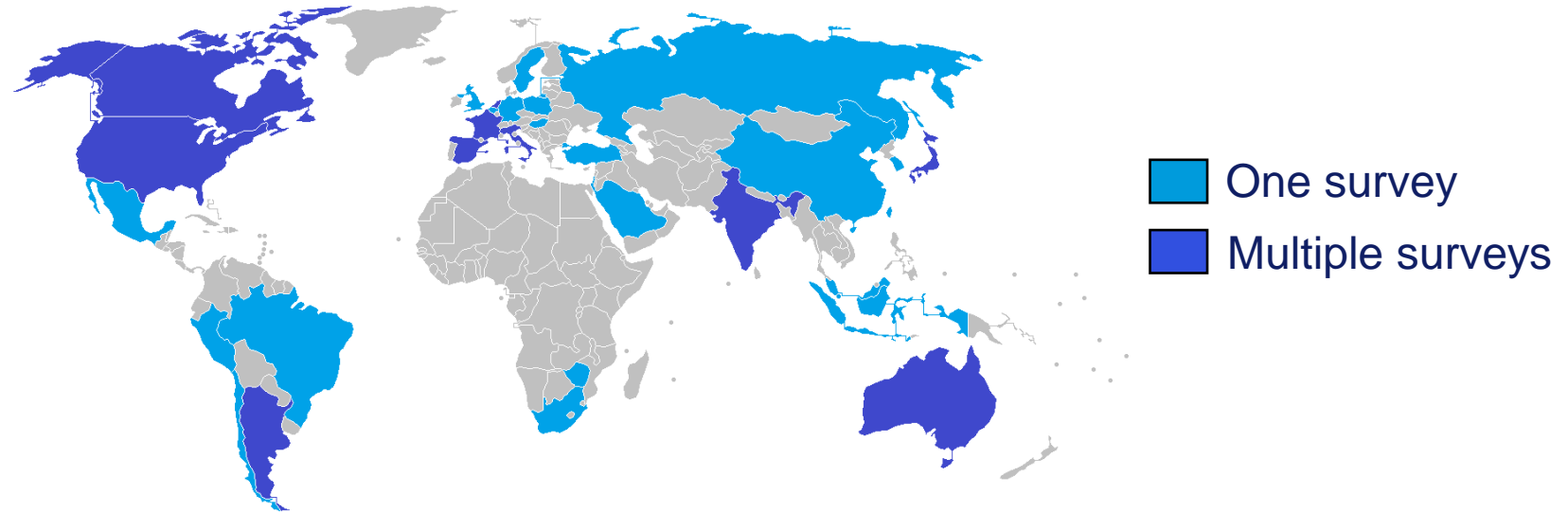
	Aug 20	Sept	Oct	Nov	Dec	Jan 21	Feb	Mar	Apr	May
Protocol development and PROSPERO registration	✓						✓			
Literature search (Medline, Embase, PsychInfo, medRxiv and SSRN to 6 th November)		✓					✓			
Title/abstract screening of >17000 records		✓	✓				✓			
Full text screening of 122 articles			✓				✓	✓		
Data extraction 47 articles				✓	✓	✓	✓	✓	✓	
Risk of bias assessment					✓	✓	✓	✓	✓	
Meta-analyses and synthesis						✓	✓	✓	●	
Manuscript drafting and journal submission										

Data extraction: Citadel Cabasag, Erica Liebermann, Peter Sarich, Pavla Vaneckova, Isabelle Soerjomataram, Allini Mafra



Call for data sources on behaviour changes and collaboration on future reviews

- At last CCGMC meeting, asked for information on local lifestyle surveys and studies
 - 26 submissions, data sources in 31 countries
 - Tobacco, alcohol, diet, physical inactivity, body fatness, diet, mental health, others
- Additional submissions very welcome through <https://form.jotform.com/203067806435051>
- Currently open call for collaboration on future reviews (with WG1)



Update on Covid-19 & Cancer Taskforce, snapshot of the impact on cancer patients.

Prof Richard Sullivan



International Agency for Research on Cancer



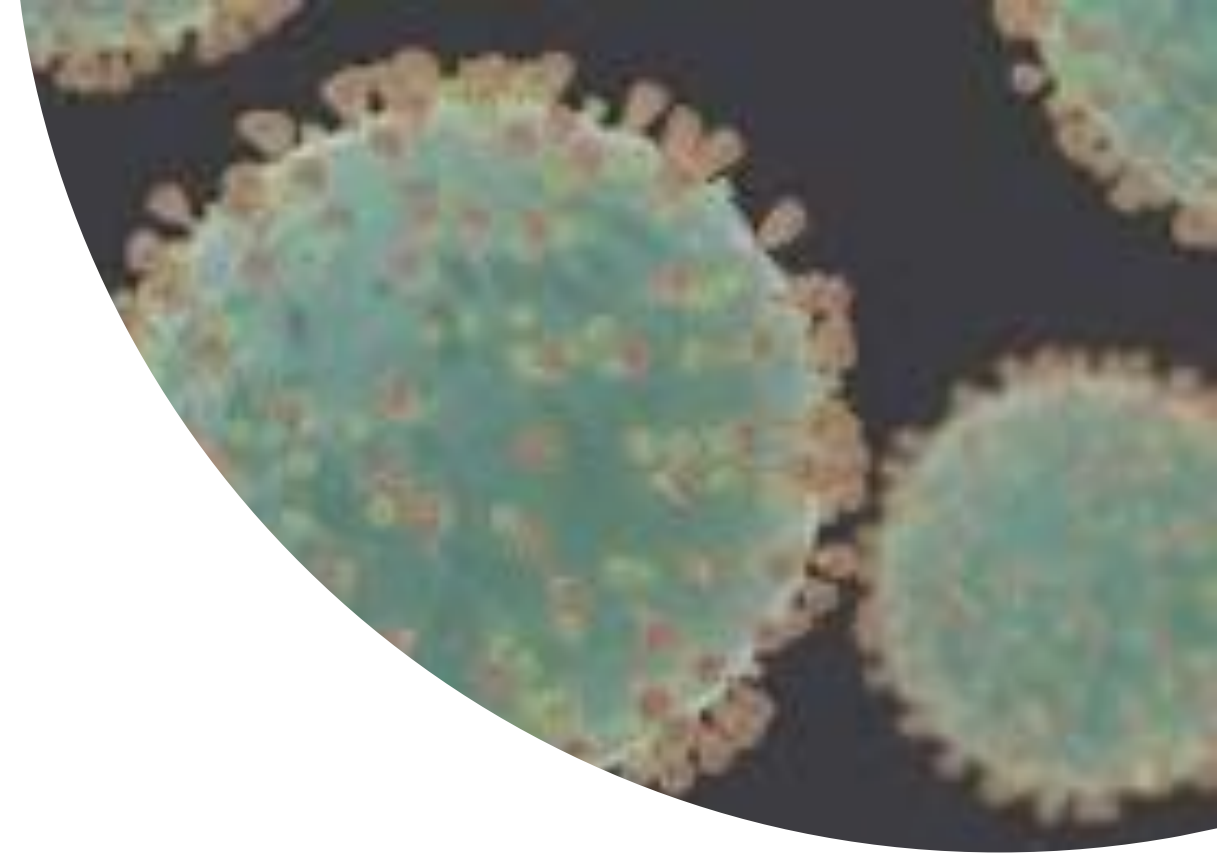
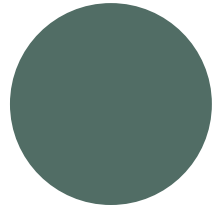
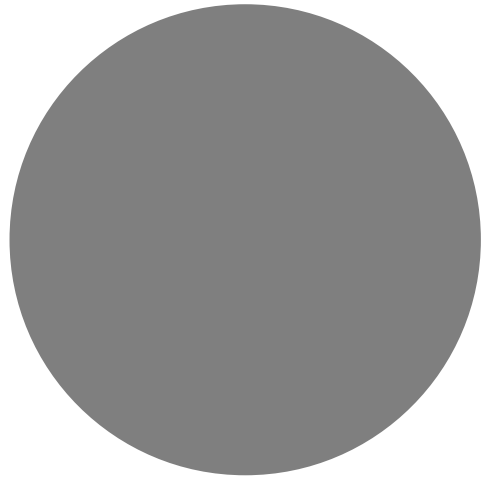
CANADIAN PARTNERSHIP
AGAINST CANCER



PARTENARIAT CANADIEN
CONTRE LE CANCER



The Daffodil Centre



Covid-19 and Cancer Taskforce

Prof Richard Sullivan

April 2021 Update

Engagement: national and international

- Webinar series: NCG India; King's Queens, etc
- 3 symposiums to date

The screenshot shows a Zoom meeting interface. On the left, a large teal slide displays the following text:

The Importance of Nurses to Prevent Disease Transmission: COVID-19

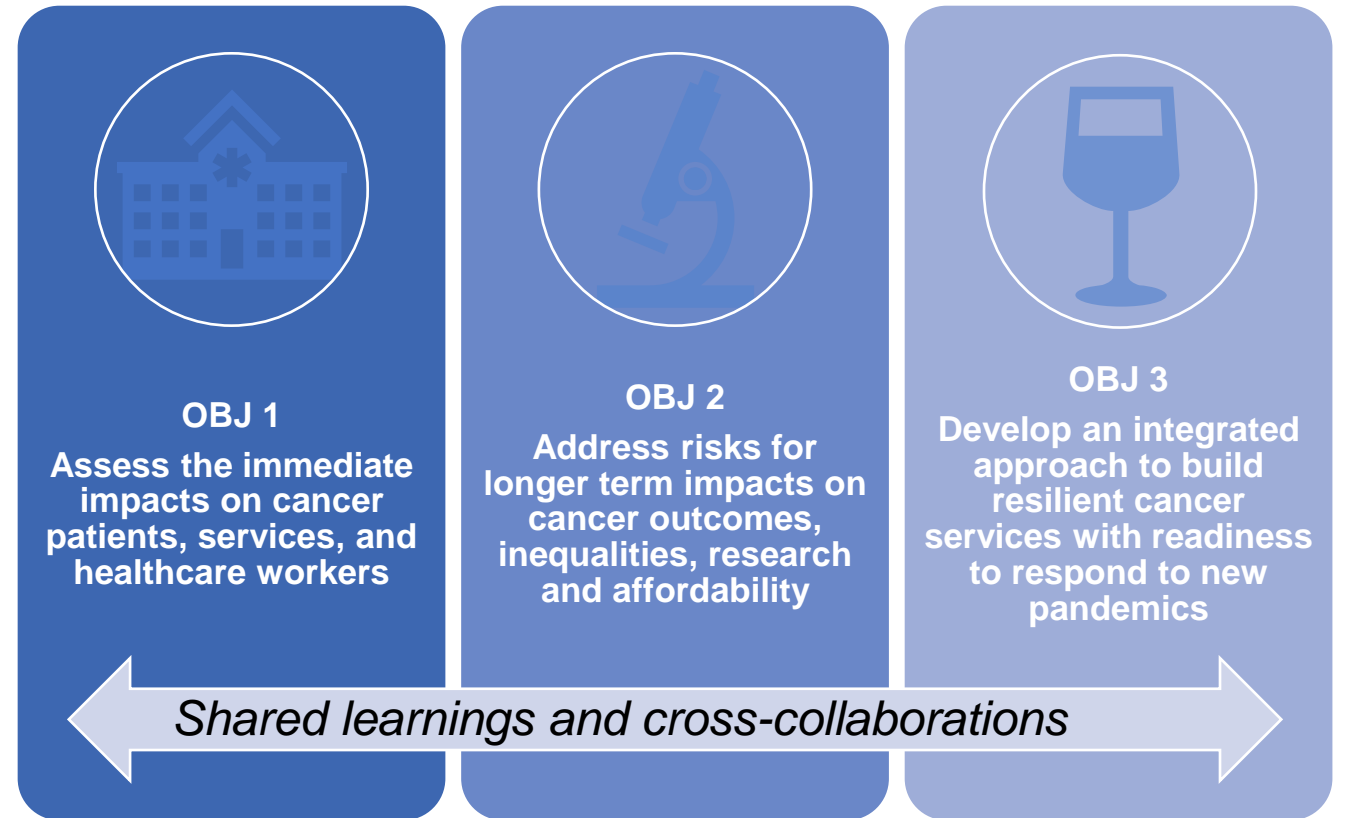
Daniel VanderEnde MD, MPH, DTM&H
Centers for Disease Control and Prevention

16 May 2020

On the right, a grid of 16 video thumbnails shows various participants, including individuals and groups from organizations like NCG National Cancer Grid, MALABAR CA, and HBCH sangrur. The bottom of the screen features a control bar with icons for Unmute, Start Video, Security, Participants (147), Polls, Chat, Share Screen, Pause/Stop Recording, Closed Caption, Breakout Rooms, Reactions, and an End button. The system tray at the very bottom shows the Windows taskbar with the date and time 09:37.

Overview

- Grown to 72 members across 47 countries
- Nine projects of varying size
- Longest running collaborative network
- 30 publications with estimated 11 near completion




Health worker survey WG

- Led by Chris Booth (Canada, UK, Malaysia, Pakistan, Jordan, Colombia, Rwanda/Boston, Australia, Japan)
- Individual analysis & publication f/b meta-analysis
- Quantifying perceived stress & resilience to inform organisational strategies supporting mental health of HCW
- Japan has most complex and complete study: 2 waves (n=566, n=336) with third wave planned.

Silver linings WG

Iecancermedicalscience

Silver linings: a qualitative study of desirable changes to cancer care during the COVID-19 pandemic

Dorothy Lombe¹ , Richard Sullivan², Carlo Caduff³, Zipporah Ali⁴, Nirmala Bhoo-Pathy⁵, Jim Cleary⁶, Matt Jalink⁷, Tomohiro Matsuda⁸, Deborah Mukherji⁹, Diana Sarfati¹⁰, Verna Vanderpuye¹¹, Aasim Yusuf¹² and Christopher Booth⁷

- Semi-structured interviews (n = 20) were conducted with key opinion leaders from 14 countries
- 10 themes of positive changes
- In depth survey based study; meta-analysis with other work in this area. Will report Qtr 3 2021

Economic impact WG

Iecancermedicalscience

Cancer and COVID-19: economic impact on households in Southeast Asia

Yek-Ching Kong¹, Veni-Venussha Sakti¹, Richard Sullivan² and Nirmala Bhoo-Pathy¹

- EJC about to publish economic impact of delayed diagnosis for cancer in England & Wales; same model being applied to other EU datasets
- Michael Schlander working on major German study with DKFZ
- Briefed OECD (Laurence Boone)

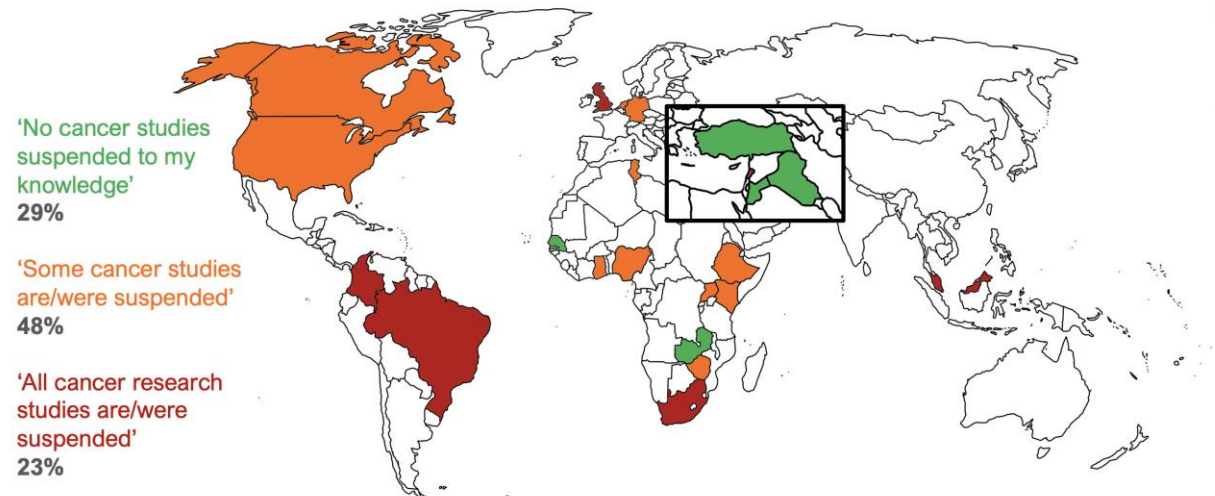
Research Impact WG

Impact of COVID-19 on Global Cancer Research: an opportunity to redefine priorities (REPRISE)

- Mieke v H, Debbie Mukherji, Louis Fox & Verna Vanderpuye
- Survey and bibliometric analysis
- Publishing Qtr 3 2021

Table 2. Outputs of papers on COVID by the leading 12 countries (N), COVID research in cancer (C + O) (N), and percentage of these papers, integer counts, as a proportion of countries overall COVID research output over this period.

Country	ISO	COVID	C+O	%	Country	ISO	COVID	C+O	%
USA	US	15418	499	3.2	Spain	ES	2533	102	4.0
Italy	IT	5072	298	5.9	India	IN	3416	100	2.9
UK	UK	5148	188	3.7	Canada	CA	2503	90	3.6
China	CN	8725	180	2.1	Switzerland	CH	1119	62	5.5
France	FR	2147	112	5.2	Turkey	TR	1471	60	4.1
Germany	DE	2822	110	3.9	Australia	AU	2059	54	2.6



COVID-19 Risk and Indirect Impact WG

- A lot underway in high income settings (quant) but mainly from single centres, in LMIC mostly qualitative / narrative
- Risk picture is very complicated – publications from hospital cohorts, global cancer surgery etc; but huge problem with ascertainment bias and variations in methods used to calculate risk to cancer patient

ecancermedicalscience

The impact of national non-pharmaceutical interventions ('lockdowns') on the presentation of cancer patients

Arnie Purushotham^{1,2}, Graham Roberts², Kate Haire², Joanna Dodkins², Elizabeth Harvey-Jones², Lu Han³, Anne Rigg², Claire Twinn², Conjeevaram Pramesh⁴, Priya Ranganathan⁴, Richard Sullivan¹ and Ajay Aggarwal^{1,2,3}

COVID-19 Vaccines

Cancer and COVID-19 vaccines: a complex global picture



Lancet Oncol 2021
For the COVID-19 and Cancer Taskforce see covidcancertaskforce.org

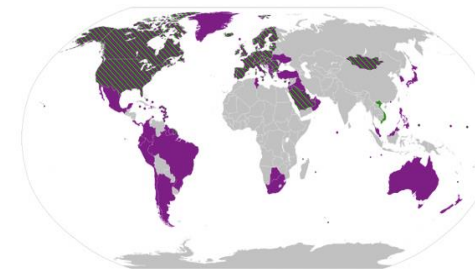
Patients with cancer can be at high risk of severe COVID-19 due to their age, disease, cancer treatment, and medical co-morbidities.¹ The pandemic has also led to substantial disruptions to diagnosis and treatment in many parts of the world.^{2,3} Patients with cancer in low-income and middle-income countries (LMICs) are further disadvantaged compared with those in high-income settings because of unequal access to COVID-19 vaccines in already fragile health-care systems.

What do we know so far about the safety and efficacy of COVID-19 vaccines for patients with cancer? Notably, the published data only reflect certain vaccines in specific, mostly high-income, settings. With this caveat

resources, especially if vaccines become available in the private sector, rather than exclusively through government-led national programmes.

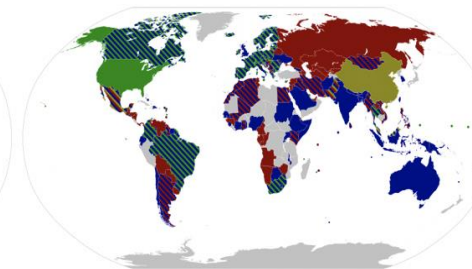
In light of the challenging and rapidly changing vaccine landscape for patients with cancer, the **COVID-19 and Cancer Taskforce** undertook a rapid assessment of the current global availability of COVID-19 vaccines and their strategies for covering cancer patients and health-care workers, up to and including March 31, 2021. We surveyed members of the Taskforce from 38 countries covering the full spectrum of development from low-income to high-income settings and received completed responses from

Country	Pfizer BioNTech	Moderna	Covaxin	Sputnik V	Sinopharm (WB/WIBP)	CoronaVac	Convidecia	Johnson & Johnson	Oxford Astra-Zeneca	Healthcare workers	Cancer patients
Low and Middle Income Countries											
Argentina					X				X	2 nd Dose	2 nd Dose
Bolivia					X				X		
Brazil			X							2 nd Dose	
Colombia								X	X	1 st Dose	
Costa Rica									X	2 nd Dose	
El Salvador											
Ghana			X	X						1 st Dose	
Guatemala											
India										2 nd Dose	1 st Dose
Iraq											
Jordan				X						Mixed	1 st Dose
Kenya										1 st Dose	
Lebanon				X					X	1 st Dose	1 st Dose
Malaysia										2 nd Dose	
Mexico				X		X	X				
Myanmar				X					X	1 st Dose	
Nigeria											
Pakistan										2 nd Dose	
Peru	X									NA	
Philippines						X					
Rwanda								X	X	Mixed	
South Africa	X								X	1 st Dose	
Sri Lanka	X									1 st Dose	
Turkey										2 nd Dose	1 st dose
Uruguay						X					
Venezuela										Mixed	
Zambia											
High Income Countries											
Canada										1 st dose	1 st dose
Chile									X	Mixed	1 st Dose
NZ								X	X	1 st dose	
Singapore		X				X				Mixed	
UK										1 st Dose	1 st Dose
USA										Mixed	Mixed



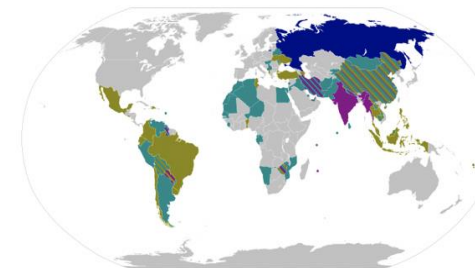
RNA vaccines

Pfizer-BioNTech
Moderna



Adenovirus vector vaccines

Oxford-AstraZeneca
Sputnik V
Johnson & Johnson
Convidecia



Inactivated virus vaccines

Sinopharm (BBIBP)
CoronaVac
Covaxin
Sinopharm (WIBP)
CoviVac



Protein subunit vaccines

EpiVacCorona
RBD-Dimer

5. Next steps.

Moderated by Prof Karen Canfell & Dr Isabelle Soerjomataram



Thank you

Secretariat email: covidandcancer@nswcc.org.au

