

COVID-19 CADTH HEALTH TECHNOLOGY REVIEW

Synopsis for the Resumption of Colorectal and Cervical Cancer Screening

This report was published on November 2, 2020.

To produce this report, CADTH used a modified approach to the selection, appraisal, and synthesis of the evidence to meet decision-making needs during the COVID-19 pandemic. Care has been taken to ensure the information is accurate and complete, but it should be noted that international scientific evidence about COVID-19 is changing and growing rapidly.

Version: 1.0
Publication Date: November 2020
Report Length: 20 Pages

Cite As: *Synopsis for the Resumption of Colorectal and Cervical Cancer Screening*. Ottawa: CADTH; 2020 November (CADTH health technology review).

Disclaimer: The information in this document is intended to help Canadian health care decision-makers, health care professionals, health systems leaders, and policy-makers make well-informed decisions and thereby improve the quality of health care services. While patients and others may access this document, the document is made available for informational purposes only and no representations or warranties are made with respect to its fitness for any particular purpose. The information in this document should not be used as a substitute for professional medical advice or as a substitute for the application of clinical judgment in respect of the care of a particular patient or other professional judgment in any decision-making process. The Canadian Agency for Drugs and Technologies in Health (CADTH) does not endorse any information, drugs, therapies, treatments, products, processes, or services.

While care has been taken to ensure that the information prepared by CADTH in this document is accurate, complete, and up-to-date as at the applicable date the material was first published by CADTH, CADTH does not make any guarantees to that effect. CADTH does not guarantee and is not responsible for the quality, currency, propriety, accuracy, or reasonableness of any statements, information, or conclusions contained in any third-party materials used in preparing this document. The views and opinions of third parties published in this document do not necessarily state or reflect those of CADTH.

CADTH is not responsible for any errors, omissions, injury, loss, or damage arising from or relating to the use (or misuse) of any information, statements, or conclusions contained in or implied by the contents of this document or any of the source materials.

This document may contain links to third-party websites. CADTH does not have control over the content of such sites. Use of third-party sites is governed by the third-party website owners' own terms and conditions set out for such sites. CADTH does not make any guarantee with respect to any information contained on such third-party sites and CADTH is not responsible for any injury, loss, or damage suffered as a result of using such third-party sites. CADTH has no responsibility for the collection, use, and disclosure of personal information by third-party sites.

Subject to the aforementioned limitations, the views expressed herein are those of CADTH and do not necessarily represent the views of Canada's federal, provincial, or territorial governments or any third party supplier of information.

This document is prepared and intended for use in the context of the Canadian health care system. The use of this document outside of Canada is done so at the user's own risk.

This disclaimer and any questions or matters of any nature arising from or relating to the content or use (or misuse) of this document will be governed by and interpreted in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein, and all proceedings shall be subject to the exclusive jurisdiction of the courts of the Province of Ontario, Canada.

The copyright and other intellectual property rights in this document are owned by CADTH and its licensors. These rights are protected by the Canadian *Copyright Act* and other national and international laws and agreements. Users are permitted to make copies of this document for non-commercial purposes only, provided it is not modified when reproduced and appropriate credit is given to CADTH and its licensors.

About CADTH: CADTH is an independent, not-for-profit organization responsible for providing Canada's health care decision-makers with objective evidence to help make informed decisions about the optimal use of drugs, medical devices, diagnostics, and procedures in our health care system.

Funding: CADTH receives funding from Canada's federal, provincial, and territorial governments, with the exception of Quebec.

Purpose and Context

The impact of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) — the COVID-19 pandemic — on global health care services has been unparalleled. Due to the increase in demand and the redeployment of services in the health care system, there have been many suspensions and reorganization of services. Non-urgent cancer treatment procedures such as routine screenings and annual surveillance among cancer survivors, low-suspicion screen recalls, and low-suspicion activities for elderly patients were delayed or postponed. There is considerable concern that when screening programs do resume, there may be a backlog of screen-positive patients who may be diagnosed at more advanced stages. Therefore, it is imperative that data be collected on how to effectively and safely resume screening services.

The purpose of this report is to provide a customized summary of evidence related to the resumption of cancer screening in the era of COVID-19. The information in this report is provided to help inform health care decision-making. Evidence is gathered from key sources identified through CADTH's Implementation Reference Search Service (IMPRESS), which is a rapid information inquiry service.

Process

A targeted PubMed literature search was conducted by an information specialist, as well as a focused internet search. The search strategy comprised both controlled vocabulary, such as the National Library of Medicine's MeSH (Medical Subject Headings), and keywords. The search was limited to English-language documents published between January 2018 and August 12, 2020.

Key sources from scientific evidence, clinical guidelines, recommendations, national standards and guideline groups that were directly relevant to the requestor's questions were included. Bibliographic searches were not conducted.

Members of CADTH's Implementation Support and Knowledge Mobilization team screened the literature and selected those sources deemed relevant to the questions posed for inclusion in this report. Literature was reviewed, but not critically appraised, to assess the quality of the studies and resources included. CADTH's Implementation Support and Knowledge Mobilization team provided a brief interpretation for each source to assist the reader.

Question

What are jurisdictions, Canadian or international, doing for the resumption of cancer screening services during COVID-19?

Key Messages

- To prevent diagnosis at later stages, screening for cancer should be resumed adhering to COVID-19 protocols.

For Colorectal Cancer Screening:

- Colonoscopy demand should be distributed over time by stratifying candidates according to individual colorectal cancer risk. Endoscopies, which can be deferred for low-risk individuals should be deferred. If possible, separating the upper and lower gastrointestinal (non-aerosol-generating) investigations is an option for consideration.
- At-home testing is preferred. Options could include fecal immunochemical tests or multi-target stool DNA tests.
- Fecal immunochemical tests can be picked up by patients for at-home testing. It is suggested that a threshold of 10 mcg Hb/g feces (a measure of blood in the stool) should be further investigated and at a threshold of 150 mcg Hb/g feces should be prioritized for colonoscopy.
- Additional suggestion on low-cost interventions to minimize the risk of COVID-19 transmissions should be considered. These include water-aided colonoscopy, water immersion, and water exchange procedures. Other options for colorectal cancer screening include colon capsule endoscopy or CT colonography.
- A critical appraisal of these sources was not conducted.

For Cervical Cancer Screening:

- Canadian and international guidance indicates that screening should be based on risk and there may be a potential to have individuals self-collect samples at home.
- Telehealth services should be provided for at-risk or remote populations to inform on the availability of screening procedures.
- Jurisdictions are asked to consider switching to primary HPV testing.
- Individuals with two consecutive cytologic abnormalities should be referred to colposcopy.
- A critical appraisal of these sources was not conducted.

The Evidence to Date

A total of 57 citations were retrieved through the literature search, as noted in Appendix 1. After the initial screening of abstracts and titles, 37 potentially relevant documents were identified for full-text review. Of these potentially relevant documents, 29 documents were relevant to the question and have subsequently been summarized. The overview of the type of document can be found in Table 1.

Included documents are further divided by guidance on the resumption of either colorectal cancer or cervical cancer screening. Details on this, as well as a high-level summary of each source, is found in Table 2.

Table 1: Overview of Type of Documents Identified

Type	Amount
Original articles	4
Literature review	4
Rapid review	2
Guidance documents	9
Commentary/editorial	6
Websites	4

Table 2: Canadian and International Statements on the Resumption of Cancer Screenings During COVID-19

Title of document	Jurisdiction	Key message	Date on source
Colorectal cancer screening			
The impact of COVID-19 pandemic in the colorectal cancer prevention¹	Italy	<p>Overviews the following: CRC and screening programs in the average-risk population; surveillance in inflammatory bowel disease; the limitations of CRC prevention secondary to COVID-19 (e.g., suspension of first-level screening tests, including FOBT); what the national health systems can expect (i.e., impacts of pausing screening procedures); and practical considerations for CRC prevention post-COVID-19; for example:</p> <ul style="list-style-type: none"> • colonoscopy demand should be distributed over time by stratifying the candidates according to the individual CRC risk • promote among general practitioners a questionnaire for the risk stratification of the CRC • increasing knowledge of guidelines for patients with inflammatory bowel disease • anticipate endoscopies that can be deferred, while postponing others following precise indications 	June 2020
As screening declines amid COVID-19, at-home stool DNA test for CRC gets high adherence in Medicare population²	US	<p>Covers the following: that at-home CRC screening tests with high adherence are of great relevance during the pandemic (highlights mt-sDNA adherence study results); how mt-sDNA might be delivered during the pandemic; offering patients screening choices, including mt-sDNA and the need for follow-up after a positive stool-based screening test; and prioritizing endoscopy procedures based on the level of medical urgency</p>	June 12, 2020
COVID-19 and Cancer Screening - Information for patients and health professionals³	Canada — BC Cancer Screening	<p>Colon screening information provided on the web page:</p> <ul style="list-style-type: none"> • FIT kits are available for pick-up at labs and can be done at home. • If the individual has picked up a FIT and completed it, they should return the used FIT kit to the lab for safe disposal and let the lab know that the specimen was collected before the suspension. The individual will be provided a new FIT kit to repeat the test. • Health authorities are re-booking procedures that were previously cancelled due to the COVID-19 situation. 	Not Available

Title of document	Jurisdiction	Key message	Date on source
		<ul style="list-style-type: none"> • Patients with cancelled appointments at health authority facilities will be contacted directly by the facility regarding re-booking. • Patients with symptoms should be referred directly to a specialist for assessment. FIT is not required. 	
<p>COVID-19 and the Global Impact on Colorectal Practice and Surgery⁴</p>	<p>International Society of University Colon and Rectal Surgeons (ISUCRS)</p>	<p>The present study administered a survey to global colorectal surgeons to assess the effects of COVID-19 on colorectal practice and surgery. The questionnaire does not focus on cancer screening services; however, the article makes the following statement in the discussion section: "Non-invasive stool and blood tests to excluded colorectal cancer or inflammatory bowel disease can assist in the prioritization for a confirmatory diagnostic invasive test. Patients with concerning symptoms for colorectal cancer could be offered a fecal immunochemical test (FIT) or multitarget stool DNA test (FIT-DNA), if they do not have rectal bleeding. Both of these tests have proven excellent accuracy for excluding colon cancer."</p>	<p>June 7, 2020</p>
<p>Covid-19 pandemic impact on colonoscopy service and suggestions for managing recovery⁵</p>	<p>Endoscopy International Open; participating countries include the US, UK, Japan, the Netherlands, Germany, and Italy</p>	<p>Article proposes considering adopting low-cost interventions to minimize the risk of transmitting the Covid-19 virus, decreasing the number of incomplete or low-quality procedures that require rescheduling, and minimizing the need for anesthesia medication and support. Suggestions discussed: 1) Water-aided colonoscopy, water immersion, and water exchange. 2) Predictive scores for poor preparation are not being used in clinical practice; however, they could potentially assist in predicting which patients are at risk for poor preparation. A tailored bowel preparation could be recommended for them. 3) Careful attention to reviewing images while the patient is present and attention to patient positioning. 4) Approaches to decrease patient anxiety (hypnosis, listening to music).</p>	<p>June 24, 2020</p>
<p>Molecular-based Alternatives for Colorectal Cancer Screening during the COVID-19 Pandemic⁶</p>	<p>US</p>	<p>DNA-based stool sample tests may be useful for colorectal cancer screening when a colonoscopy is not available. The aim of this review is to demonstrate the potential utility of enhanced DNA-based stool testing for colorectal cancer screening and diagnosis during crises that strain available health care resources, such as the current COVID-19 pandemic. This review shows that DNA-based stool sample tests have the potential to enable colorectal cancer screening to prioritize patients to elective colonoscopy procedures, the continued delay of which, during the COVID-19 pandemic, has already placed a burden on future elective procedures.</p>	<p>May 28, 2020</p>
<p>Navigating the storm of COVID-19 for patients with suspected bowel cancer⁷</p>	<p>UK</p>	<p>The authors suggest that FIT may have an important role in colorectal cancer screening during the pandemic. A FIT threshold for high-risk patients was suggested. FIT-positive patients over a threshold of 10 mcg Hb/g feces should be noted for further investigation while greater than 150 ug Hb/g feces should be prioritized for colonoscopy.</p>	<p>June 10, 2020</p>

Title of document	Jurisdiction	Key message	Date on source
<p>COVID-19 Clinical Insights for Our Community of Gastroenterologists and Gastroenterology Care Providers⁸</p>	<p>US — American College of Gastroenterology</p>	<p>Provides some generic guidance on screening patients for COVID and PPE precautions. Most specific recommendations for colorectal cancer screening are copied, as follows:</p> <ul style="list-style-type: none"> • Recommended to strongly consider rescheduling elective non-urgent endoscopic procedures. However, some non-urgent procedures are higher priority and may need to be performed (examples include cancer evaluations, prosthetic removals, evaluation of significant symptoms). • Recommended a pre-screen for all patients for high-risk exposure or symptoms. Patients should be asked about their history of fever or respiratory symptoms, family members or close contacts with similar symptoms, any contact with a confirmed case of COVID-19, and recent travel to a high-risk area. • Recommending to consider offering elective office visits remotely, via telemedicine if possible, in order to decrease the office density of patients and provide needed care to patients who are less willing or unable to travel. 	<p>March 15, 2020</p>
<p>FIT Testing Resumed in Alberta – June 17, 2020⁹</p>	<p>Canada —Alberta</p>	<p>As of June 15th, FIT testing has resumed in Alberta.</p>	<p>June 17, 2020</p>
<p>Faecal immunochemical testing for adults with symptoms of colorectal cancer attending English primary care: a retrospective cohort study of 14 487 consecutive test requests¹⁰</p>	<p>UK</p>	<p>A review of the diagnostic accuracy of FIT. The authors concluded that “a FIT threshold of $\geq 10 \mu\text{g Hb/g}$ faeces would be appropriate to triage adult patients presenting to primary care with symptoms of serious colorectal disease. FIT may be used to reprioritise patients referred with colorectal cancer symptoms whose investigations have been delayed by the COVID-19 pandemic.”</p>	<p>July 17, 2020</p>
<p>Supporting COVID19 recovery: Patient prioritisation using symptomatic FIT testing¹¹</p>	<p>UK — Cheshire & Merseyside Endoscopy Network</p>	<p>“The British Society of Gastroenterology (BSG), NHS England and NHS Improvement have advised that alternative pathways for diagnostic testing, including the use of FIT, be considered by clinical teams. The BSG has advised that TWW (Urgent Two Weeks Wait) referrals should be risk assessed on a case-by-case basis with endoscopic procedures being reserved for those at greatest risk and all patients added to a deferred waiting list, some of which would need reassessing to determine if their cancer risk has changed by telephone triage. NHSE has released guidance on how FIT testing can be used to triage patients for investigation during COVID19 and recovery from the crisis. This guidance has been incorporated in to this document.”</p> <p>The purpose of guidance is to support providers to prioritize TWW referrals using the following to inform decisions: patient-reported symptoms together with blood test results and FIT. The document includes the following sections: considerations about referral, reporting, and patient management; patient categorization (how to triage</p>	<p>May 4, 2020</p>

Title of document	Jurisdiction	Key message	Date on source
		patients); service provision; what to do with FIT-positive participants; safety nettings; safety instructions for staff; cancer waiting time guidance; evaluation and data monitoring; and supportive information (e.g., FIT testing, sFIT pathway, etc.).	
COVID-19: Framework for the Resumption of Endoscopic Activities from the Canadian Association of Gastroenterology ¹²	Canada — Canadian Association of Gastroenterology	Divides specific endoscopy activities into tiers — must always be performed, should be performed, could be performed, should be deferred High likelihood of colon cancer based on imaging, physical examination, or: <ul style="list-style-type: none"> • symptoms — should be performed • positive FIT — could be performed • screening — should be deferred 	April 2020
CT colonography's role in the COVID-19 pandemic: a safe(r), socially distanced total colon examination ¹³	US	Advocates for the use of CT colonography in place of colonoscopy to screen for colorectal cancer. Benefits of this procedure include: <ul style="list-style-type: none"> • the ability to physical distance during the procedure • decreased use of PPE • no sedation required — therefore, less staff members interacting with patients, patients can drive themselves home after the procedure and they do not need to remain in a recovery room for monitoring after the procedure 	July 18, 2020
COVID-19 Rapid Report. Restarting gastrointestinal endoscopy in the deceleration and early recovery phases of COVID-19 pandemic: Guidance from the British Society of Gastroenterology ¹⁴	UK — British Society of Gastroenterology Endoscopy Quality Improvement Programme	The British Society of Gastroenterology Endoscopy Quality Improvement Programme has produced guidance on how a restart can be safely delivered. Key recommendations include the following: all patients should have the need for endoscopy assessed by senior clinicians and prioritized according to criteria we have outlined; once the need for endoscopy is confirmed, patients should undergo telephone screening for symptoms using systematic questionnaires; all outpatients should undergo RT-PCR testing for COVID-19 virus one to three days prior to endoscopy; and PPE should be determined by the patient, the nature of the procedure, and the results of testing.	2020
Colon capsule endoscopy: an innovative method for detecting colorectal pathology during the COVID-19 pandemic? ¹⁵	UK	This is an original article; summarizes information on colon capsule endoscopy and how the procedure could be used to decrease the demand for colonoscopy. The authors suggest it could be used as a triage tool to more appropriately refer patient colonoscopy. They note that colon capsule endoscopy (CCE) is an innovative technology for visualizing the colon and it can be carried out in the community, reducing hospital attendance. Telephone consultations are used for pre-procedure patient checks and to explain the bowel preparation regime." The procedure can be carried out by one health care professional in a simple clinic room.	May 13, 2020
Letter to Chief Executives of all NHS trust and foundation trusts ¹⁶	UK	The letter notes that increasing endoscopy capacity to normal levels, including through the release of endoscopy staff from other duties, separating upper and lower GI (non-aerosol-generating) investigations, and using CT colonography to substitute, where appropriate, for	July 31, 2020

Title of document	Jurisdiction	Key message	Date on source
		colonoscopy are options to effectively screen during the COVID-19 era.	
Cervical cancer screening			
COVID-19 and Cancer Screening — Information for patients and health professionals¹⁷	Canada — BC Cancer Screening	<p>Primary care providers can expect standard lab processing times and normal capacity for downstream colposcopy procedures throughout the province.</p> <p>The Cervical Cancer Screening Laboratory continues to process any Pap samples it receives and sends primary care providers the results.</p> <p>Colposcopy clinics are accepting referrals as normal and booking patients for follow-up. Patients who have been recommended for colposcopy should be referred.</p> <p>Patients with significant symptoms including post-coital bleeding, persistent intermenstrual bleeding, and/or a persistent vaginal discharge that cannot be explained by benign causes such as infection should have a speculum examination by someone with experience in cervical disease. Referral to a colposcopist is appropriate and may be expedited if the clinical suspicion is high. A Pap test is not required for referral.</p>	Not Available
Guidance for managing National Cervical Screening Program (NCSP) participants during the COVID-19 Pandemic¹⁸	Australia	<p>Guidelines for cervical cancer screening based on new screener (25+); routine screeners; and overdue or never screened. Included recommendations for follow-up and testing based on risk. Includes self-collection parameters.</p> <p>Guidance for symptomatic individuals: should be clinically assessed and investigated according to the clinical management guidelines.</p> <p>New screener: individuals who have received the HPV vaccine are low risk and screening can be rescheduled for three to six months out.</p> <p>Routine screener: individuals should be screened every five years as per the NCSP. However, individuals who are 30 years or older and have never done a cervical cancer test should be offered one without delay.</p>	April 8, 2020
Cervical cancer screening during the COVID-19 Crisis: Africa view point¹⁹	Africa viewpoint — University of Embu, Embu, Kenya.	Telehealth services such as phone calls, text messages, and WhatsApp can be used as counselling services for at-risk and remote populations. This will aid in shared decision-making on screening and provide information on when and where screening services will be provided.	May 12, 2020
Special ambulatory gynecologic considerations in the era of coronavirus disease 2019 (COVID-19) and implications for future practice²⁰	US (Baltimore, Maryland)	This reviews approaches to managing a variety of gynecological conditions during COVID but has a subsection specific to cervical cancer screening. It describes the recommendations of the ASCCP, which includes criteria for triaging patients who require colposcopy for the assessment of abnormal cells. It also discusses ASCCP endorsement for switching to primary HPV testing.	June 6, 2020
Cervical screening²¹	Scotland	As of March 2020, HPV testing has replaced cervical smear. Invitations first will be to non-routine tests for individuals screened more often.	July 15, 2020

Title of document	Jurisdiction	Key message	Date on source
		<p>FAQ for sample takers: http://www.healthscotland.scot/media/2883/hpv-faq-for-sample-takers-november2019-english.pdf</p> <p>Also, there's a "cervical screening toolkit" to improve attendance at appointments: http://www.healthscotland.scot/media/2230/cervical-screening-toolkit.pdf</p>	
<p>How the Coronavirus Disease-2019 May Improve Care: Rethinking Cervical Cancer Prevention²²</p>	<p>US</p>	<p>This opinion article is specific to cervical cancer, but the suggestions could be generalized to other cancer screenings. The author provides suggestions for reimaging care to resume and maintain services, including a discussion of:</p> <ul style="list-style-type: none"> • increasing the uptake of the HPV vaccination and considering combining the vaccine with other vaccines • primary HPV screening and self-sampling • the implementation of risk-based screening • making use of virtual visits to provide counseling and education. 	<p>July 1, 2020</p>
<p>NHS Cervical Screening Programme Restoration Guidance²³</p>	<p>UK — Public Health England</p>	<p>This NHS Public Health England — NHS Cervical Screening Programme Restoration Guidance document provides comprehensive guidance to traditional screening programs include recommendations around staff training, PPE, and colposcopy approaches. It contains implementation checklists and offers screening assessments as alternative approaches. Of note, this guidance provides traditional screening approaches but no change in technologies, staffing, processes, and PPE.</p>	<p>May 14, 2020</p>
<p>General guidance addressing both colorectal and cervical cancer screening</p>			
<p>Maintaining essential health services: operational guidance for the COVID-19 context²⁴</p>	<p>WHO guidance</p>	<p>Guidelines outlined (see p 34): Modify and consider temporarily delaying cancer screening programs, particularly those that are facility based. Consider promotion of home-based, self-sampling for cervical cancer (HPV test) and colorectal cancer in settings with appropriate infrastructure and capacity. Maintain communication with and diagnostic follow-up for those who have a screening test. Remote support can be utilized for counselling after a negative test and planning for management after a positive test. Screening for high-risk individuals (such as cervical cancer screening for women living with HIV) may be prioritized.</p>	<p>June 1, 2020</p>
<p>Should I Get Screened for Cancer During COVID-19?²⁵</p>	<p>Blog Insight — Dana-Farber Cancer Institute</p>	<p>American Gastroenterological Association says that colonoscopies can be resumed when there has been a sustained reduction in the rate of new COVID-19 cases in the relevant geographic area for at least 14 days. Dana-Farber Institute says: "Higher-risk patients especially should consider screening in upcoming months," and average-risk patients in the fall.</p> <p>Recommends employing distancing and PPE precautions when resuming screening tests; e.g., masks to be worn by all patients and staff, plexiglass barriers, intensified deep cleaning, and so on.</p>	<p>June 20, 2020</p>

Title of document	Jurisdiction	Key message	Date on source
<p>Oncology Rounds - The 'new normal': 7 questions program leaders are asking about care amid Covid-19²⁶</p>	<p>US</p>	<p>Question 6: "Organizations are eager to get cancer screenings back up and running to minimize the number of late-stage diagnoses and poor outcomes. In fact, most organizations are starting up screening earlier than anticipated—some at the beginning of May. There seemed to be an even split between organizations starting with lung cancer screening and then phasing in mammography, and vice versa. To make this phase-in period work, here are the tactics organizations using:</p> <ul style="list-style-type: none"> • Screening before the screening: Staff call patients in advance of their appointments to ask about Covid-19 symptoms, remind them to bring their masks, and inform them of their new protocols. They take the patient's temperature upon arrival, just like all other entrants. • Getting rid of the waiting room: Patients wait in their cars before their appointments, and staff call or text them when they can enter the facility to reduce the time they spend waiting inside. • Scheduling more time in between appointments: To reduce wait times and build in enough time for sterilization and cleaning, radiology departments are scheduling appointments every 30 minutes, rather than every 15 minutes as previously done. • Communicating with patients: When screenings start back up, it is critically important to make sure people feel safe and comfortable coming back into the hospital or screening facility. One program did a "soft" launch for mammography where they reached out to all scheduled patients in advance—and every patient who was contacted ended up coming in for their exam." 	<p>May 13, 2020</p>
<p>COVID-19 Rapid Evidence Profile #7 - What are the international lessons learned from re-opening non-COVID-19 activities in hospitals?²⁷</p>	<p>Canada — rapid evidence, McMaster University (Kingston, Ontario)</p>	<p>Changing cancer treatment procedures:</p> <ul style="list-style-type: none"> • "Delaying or postponing non-urgent cancer-related appointments, particularly at the screening level (for example, annual surveillance among cancer survivors, low-suspicion screen recalls, and low-suspicion activities for elderly patients) (last updated 8 May 2020) • Triage cancer services by considering the potential for cure, relative benefit of radiation and chemotherapy, life expectancy, and performance status (; last updated 6 April 2020) • Implementing telephone triage for new cancer referrals and consider establishing separate cancer hubs to provide non-urgent procedures for patients while maintaining their separation from COVID-19-related activities • Using home/offsite review by radiologists for breast-cancer screening, however, 5-mega pixel screens are required for primary interpretation <p>"Lessons learned from other countries</p> <ul style="list-style-type: none"> • In New Zealand, Cancer screening services have largely been resumed with the exception of bowel screening, and no screening will be provided to those over the age of 70 or with existing medical conditions 	<p>May 17, 2020</p>

Title of document	Jurisdiction	Key message	Date on source
		<ul style="list-style-type: none"> • In the UK, telephone triage was implemented for new cancer referrals to reduce hospital admissions and cancer hubs were used to provide non-urgent procedures for patients <ul style="list-style-type: none"> ◦ Continuing or resuming breast imaging during the COVID-19 pandemic requires PPE for patients and staff, clear roles of offsite radiologist review and necessary equipment, postponement of low priority imaging, and performance of high priority imaging for patients with and without concern for COVID19 (Canadian Society of Breast Imaging and Canadian Association of Radiology; last updated 2 April 2020) • Guidelines developed using some type of evidence <ul style="list-style-type: none"> ◦ Consider delaying or postponing nonurgent appointments, screening, diagnosis/staging, management procedures for patients with cancer but carefully weigh the related risks and benefits, using telemedicine for appointments, consultations, and follow-up visits (DynaMed; last updated 8 May 2020)” 	
<p>COVID-19 Cancer Screening Tip Sheet for Primary Care Providers²⁸</p>	<p>Canada — Ontario Health</p>	<p>Recommends gradual and prioritized resumption of services including resumption of mailing test kits to patients (see page 3 and page 4). Send FIT requisitions for:</p> <ul style="list-style-type: none"> • average-risk people older than age 60 who have never been screened for CRC • average-risk people with previous unsatisfactory FIT results • eligible average-risk people awaiting organ transplant <p>Refer to colonoscopy:</p> <ul style="list-style-type: none"> • people with abnormal FIT results • people at an increased risk because of a family history of CRC in a first-degree relative who was diagnosed before the age of 60 (8) • people at increased risk because of a family history of CRC in two or more first-degree relatives, regardless of age OCSF • people having routine screening (i.e., every three years) whose most recent screening result was a low grade (LSIL or ASCUS) should be rescreened with cytology in 12 months • individuals with two consecutive cytologic abnormalities should be referred to colposcopy • the groups that follow are at elevated risk and should be screened annually: <ul style="list-style-type: none"> ◦ discharged from colposcopy with persistent low-grade cytology ◦ discharged from colposcopy with an HPV-positive test and normal or low-grade cytology ◦ immunocompromised (organ transplant, immunosuppressive medications, HIV/AIDS) ◦ there is no need to delay screening for people at average risk who are due for screening if otherwise providing an in-person consult and if screening is feasible 	<p>June 30, 2020</p>

Title of document	Jurisdiction	Key message	Date on source
Preventive Cancer Screenings during COVID-19 Pandemic²⁹	US — EPIC Health Research Network	“Screening appointments in March 2020 decreased by 86-94% as compared to mean volumes over January 1, 2017 through January 19, 2020. This decrease in preventive care appointments coincides with the occurrence of the COVID-19 pandemic.”	May 1, 2020

ASCCP = American Society for Colposcopy and Cervical Pathology; CRC = colorectal cancer screening; FIT = fecal immunochemical test; FOBT = fecal occult blood test; GI = gastrointestinal; LSIL = low-grade squamous intraepithelial lesion; mt-sDNA = multi-target stool DNA; NCSP = National Cervical Screening Program; NHS = National Health Service; OCSF = Ontario Cervical Screening Program; PPE = personal protective equipment; RT-PCR = reverse transcription polymerase chain reaction; TWW = two weeks' wait.

References

1. Del Vecchio Blanco G, Calabrese E, Biancone L, Monteleone G, Paoluzi OA. The impact of COVID-19 pandemic in the colorectal cancer prevention. *Int J Colorectal Dis.* 2020:1-4.
2. Limburg P. As screening declines amid COVID-19, at-home stool DNA test for CRC gets high adherence in Medicare population. *The Cancer Letter*, 2020 Jun; https://cancerletter.com/articles/20200612_9/, 2020 Sep 24.
3. BC Cancer Screening. COVID-19 and cancer screening. 2020; <http://www.bccancer.bc.ca/screening/health-professionals/covid-19-and-cancer-screening#Colon>, 2020 Sep 24.
4. Nunoo-Mensah JW, Rizk M, Caushaj PF, et al. COVID-19 and the Global Impact on Colorectal Practice and Surgery. *Clin Colorectal Cancer.* 2020;19(3):178-190.e171.
5. Cadoni S, Ishaq S, Hassan C, et al. Covid-19 pandemic impact on colonoscopy service and suggestions for managing recovery. *Endoscopy international open.* 2020;8(7):E985-e989.
6. Dockter AG, Angelos GC. Molecular-based Alternatives for Colorectal Cancer Screening during the COVID-19 Pandemic. *Surg Technol Int.* 2020;36:143-147.
7. D'Souza N, Abulafi M. Navigating the storm of COVID-19 for patients with suspected bowel cancer. *Br J Surg.* 2020;107(7):e204.
8. American College of Gastroenterology. COVID-19 clinical insights for our community of Gastroenterologists and gastroenterology care providers. *Joint GI Society Message on COVID 2020*; <https://gi.org/2020/03/15/joint-gi-society-message-on-covid-19/>, 2020 Sep 24.
9. Alberta Health Services. FIT testing resumed in Alberta – June 17, 2020. 2020 Jun; https://screeningforlife.ca/spotlight/#FIT_Testing_Resumed_in_Alberta__June_17,_2020, 2020 Sep 24.
10. Nicholson BD, James T, Paddon M, et al. Faecal immunochemical testing for adults with symptoms of colorectal cancer attending English primary care: a retrospective cohort study of 14 487 consecutive test requests. *Aliment Pharmacol Ther.* 2020.
11. Cheshire and Merseyside Cancer Alliance. Supporting COVID19 recovery: patient prioritisation using symptomatic FIT testing. London, England: NHS England; 2020: https://www.cmcanceralliance.nhs.uk/application/files/7515/8867/8610/CM_FIT_prioritisation_guidance_v0.13_04.05.2020.pdf. Accessed 2020 Sep 24.
12. Menard C, Waschke K, Tse F, et al. COVID-19: framework for the resumption of endoscopic activities from the Canadian Association of Gastroenterology. Sherbrooke (QC): Canadian Association of Gastroenterology; 2020: <https://www.cag-acg.org/images/publications/CAG-COVID-Endo-Resumption-Final-4-28-20.pdf>. Accessed 2020 Sep 24.
13. Moreno CC, Yee J, Ahmed FS, et al. CT colonography's role in the COVID-19 pandemic: a safe(r), socially distanced total colon examination. *Abdominal radiology (New York).* 2020:1-5.
14. Rees CJ, East JE, Oppong K, et al. Restarting gastrointestinal endoscopy in the deceleration and early recovery phases of COVID-19 pandemic: Guidance from the British Society of Gastroenterology. *Clin Med (Lond).* 2020;20(4):352-358.
15. MacLeod C, Wilson P, Watson AJM. Colon capsule endoscopy: an innovative method for detecting colorectal pathology during the COVID-19 pandemic? *Colorectal Dis.* 2020;22(6):621-624.
16. Stevens S, Wright A. Letter to Chief Executives of all NHS trust and foundation trusts. London, England: NHS England; 2020: <https://www.england.nhs.uk/coronavirus/wp-content/uploads/sites/52/2020/07/Phase-3-letter-July-31-2020.pdf>. Accessed 2020 Sep 24.
17. BC Cancer Screening. Cervix. 2020 <http://www.bccancer.bc.ca/screening/cervix>, 2020 Sep 24.
18. National Cancer Screening Programme. Guidance for managing National Cervical Screening Program (NCSP) participants during the COVID-19 pandemic. 2020 Apr; <http://www.cancerscreening.gov.au/internet/screening/publishing.nsf/Content/guidance-for-managing-ncsp-participants-during-the-covid-19-pandemic>, 2020 Sep 24.
19. eCancer. Cervical cancer screening during the COVID-19 Crisis: Africa view point. 2020 May; <https://ecancer.org/en/news/17765-cervical-cancer-screening-during-the-covid-19-crisis-africa-view-point>, 2020 Sep 24.
20. Cohen MA, Powell AM, Coleman JS, Keller JM, Livingston A, Anderson JR. Special ambulatory gynecologic considerations in the era of coronavirus disease 2019 (COVID-19) and implications for future practice. *Am J Obstet Gynecol.* 2020.
21. Public Health Scotland. Cervical screening: resuming cervical screening. *Coronavirus and screening programmes 2020*; <http://www.healthscotland.scot/health-topics/screening/cervical-screening>, 2020 Sep 24.
22. Feldman S, Haas JS. How COVID may improve care: rethinking cervical cancer prevention. *J Natl Cancer Inst.* 2020.
23. Public Health England. NHS Cervical Screening Programme: restoration guidance. London, England: NHS England; 2020 Apr: <https://71633548c5390f9d8a76-11ea5efadf29c8f7bdcc6a216b02560a.ssl.cf3.rackcdn.com/content/uploads/2020/05/140520-NHS-CSP-Restoration-Guidance-v1.0.pdf#:~:text=Restoration%20Guidance%20.%201.%20PURPOSE%20.%20In%20communication,of%20NHS%20Cervical%20Screening%20Programme%20services%20have%2C%20for>. Accessed 2020 Sep 24.
24. WHO. Maintaining essential health services: operational guidance for the COVID-19 context interim guidance. Geneva, Switzerland: World Health Organization: <https://www.who.int/publications/i/item/WHO-2019-nCoV-essential-health-services-2020.1>. Accessed 2020 Sep 24.

25. Bunnell C, Burstein H, Meyerhardt J. Should I get screened for cancer during COVID-19? *Dana Farber Cancer Institute* 2020 Aug; <https://blog.dana-farber.org/insight/2020/06/should-i-get-screened-for-cancer-during-covid-19/>, 2020 Sep 24.
26. Saulet D. The 'new normal': 7 questions program leaders are asking about care amid Covid-19 *Advisory Board - Oncology Rounds* 2020; <https://www.advisory.com/research/oncology-roundtable/oncology-rounds/2020/05/cancer-program-leaders-top-questions#Q6>, 2020 Sep 24.
27. McMaster Forum. What are the international lessons learned from reopening non-COVID-19 activities in hospitals? *COVID-19 Rapid Evidence Profile #7*. Hamilton (ON): McMaster Health Forum; 2020 May: https://www.mcmasterforum.org/docs/default-source/covidend/rapid-evidence-profiles/covid-19-rep-7_hospital-reopening.pdf?sfvrsn=38457d5_2. Accessed 2020 Sep 24.
28. Cancer Care Ontario. COVID-19 cancer screening tip sheet for primary care providers. Toronto (ON): Ontario Ministry of Health, Cancer Care Ontario; 2020 Jun: <https://www.afhto.ca/sites/default/files/2020-07/COVID-19%20Tip%20Sheet%20%2315-%20Guidance%20for%20Primary%20Care%20Providers%20Resuming%20Cancer%20Screening.pdf>. Accessed 2020 Sep 25.
29. Epic Health Research Network. Preventive cancer screenings during COVID-19 pandemic. Verona (WI): EHRN; 2020 May: <https://ehrn.org/wp-content/uploads/Preventive-Cancer-Screenings-during-COVID-19-Pandemic.pdf>. Accessed 2020 Sep 24.

Appendix 1: Full IMPRESS References

Cervical Cancer Screening

1. Scotland Health Department. Cervical screening: resuming cancer screening; 2020 Jul. <http://www.healthscotland.scot/health-topics/screening/cervical-screening>
2. Kirigia C, et al. Cervical cancer screening during the COVID-19 crisis: Africa view point. eCancer; 2020 May. <https://ecancer.org/en/news/17765-cervical-cancer-screening-during-the-covid-19-crisis-africa-view-point>
3. Cervical screening during the coronavirus (COVID-19) pandemic. Ireland Health Service Executive; 2020 Mar. <https://www2.hse.ie/screening-and-vaccinations/cervical-screening/cervical-screening-coronavirus.html>
4. Australian Government. Guidance for managing National Cervical Screening Program (NCSP) participants during the COVID-19 Pandemic; 2020 Apr. <http://www.cancerscreening.gov.au/internet/screening/publishing.nsf/Content/guidance-for-managing-ncsp-participants-during-the-covid-19-pandemic>
5. Bhatia N, et al. The COVID-19 pandemic and implications for gynaecologic cancer care. Indian J Gynecol Oncolog. 2020;18(2):48. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7180676/>
6. The Eve Appeal. Cervical screening and colposcopy guidance during Covid-19; 2020. <https://eveappeal.org.uk/supporting-you/cancer-and-coronavirus/cervical-screening-and-colposcopy-guidance-during-covid-19/>
7. de Sanjosé S. Restarting cervical screening programs during and after the COVID 19 pandemic; 2020. <https://www.hpvworld.com/articles/restarting-cervical-screening-programs-during-and-after-the-covid-19-pandemic/>
8. Ramirez PT, et al. COVID-19 global pandemic: options for management of gynecologic cancers [editorial]. Int J Gynecolog Cancer. 2020;30:561-563. <https://ijgc.bmj.com/content/30/5/561>

Colon Cancer Screening

9. Maeda Y, Dunlop MG, Din VFN. Risk mitigation for suspected colorectal cancer diagnostic pathway during COVID -19 pandemic. BJS Society; 2020 Jul. <https://bjssjournals.onlinelibrary.wiley.com/doi/10.1002/bjs.11798>
10. Maida M. Screening of gastrointestinal cancers during COVID-19: a new emergency [correspondence]. Lancet Oncol. 2020 Jul;21(7):E338. [https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045\(20\)30341-7/fulltext](https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045(20)30341-7/fulltext)
11. Blanco GD, et al. The impact of COVID-19 pandemic in the colorectal cancer prevention. Int J Colorectal Dis. 2020 Jun 4:1-4. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7271141/>

12. Limburgh PJ. As screening declines amid COVID-19, at-home stool DNA test for CRC gets high adherence in Medicare population. *The Cancer Letter*. 2020 Jun. https://cancerletter.com/articles/20200612_9/
13. Lui J. FIT now available at labs in BC. *BC Med J*. 2020 Jun. <https://bcmj.org/blog/fit-now-available-labs-bc>
14. Nanoo-Mensah JW, et al. COVID-19 and the global impact on colorectal practice and surgery. *Clin Colorectal Med*. 2020 Jun. [https://www.clinical-colorectal-cancer.com/article/S1533-0028\(20\)30084-0/fulltext](https://www.clinical-colorectal-cancer.com/article/S1533-0028(20)30084-0/fulltext)
15. Gralnek IM, Hassan C, Dinis-Ribeiro M. COVID-19 and endoscopy: implications for healthcare and digestive cancer screening [comment]. *Nat Rev Gastroenterol Hepatol*. 2020 May;17:444-446. <https://www.nature.com/articles/s41575-020-0312-x>
16. Supporting COVID19 recovery: patient prioritisation using symptomatic FIT testing. Cheshire & Merseyside Cancer Alliance; 2020 May. https://www.cmcanceralliance.nhs.uk/application/files/7515/8867/8610/CM_FIT_prioritisation_guidance_v0.13_04.05.2020.pdf
17. ACG Endoscopy Resumption Task Force. Post-COVID-19: resuming endoscopy [guidance on safely reopening your endoscopy center]; 2020 May. <https://webfiles.gi.org/docs/policy/2020resuming-endoscopy-fin-05122020.pdf>
18. Menard C, et al. COVID-19: Framework for the Resumption of Endoscopic Activities from the Canadian Association of Gastroenterology; 2020 Apr. <https://www.cag-acg.org/images/publications/CAG-COVID-Endo-Resumption-Final-4-28-20.pdf>
19. ACG News Team. COVID-19 clinical insights for our community of gastroenterologists and gastroenterology care providers; 2020 Mar. <https://gi.org/2020/03/15/joint-gi-society-message-on-covid-19/> See: point 10
20. Tse F, Borgaonkar M, Lioniadis GI. COVID-19: Advice from the Canadian Association of Gastroenterology for Endoscopy Facilities, as of March 16, 2020. <https://www.cag-acg.org/images/publications/CAG-Statement-COVID-&-Endoscopy.pdf>
21. Screening for Life – Alberta Health Services. Resuming cancer screening in a phased approach; 2020 May. https://screeningforlife.ca/spotlight/#FIT_Testing_Resumed_in_Alberta__June_17,_2020

General Cancer Screening/Resumption of Services

22. The Crucial need for cancer treatment and screening during COVID-19. Memorial Sloan Kettering Cancer Center; 2020 Jul. <https://www.mskcc.org/news/crucial-need-cancer-treatment-and-screening-during-covid-19>
23. Stephens S, Pritchard A. Important – for action – third phase of NHS response to COVID-19. NHS; 2020 Jul. <https://www.england.nhs.uk/coronavirus/wp-content/uploads/sites/52/2020/07/Phase-3-letter-July-31-2020.pdf> See: p3 – section A
24. Amit M, et al. Pausing cancer screening during the severe acute respiratory syndrome coronavirus 2 pandemic: should we revisit the recommendations? *Eur J Cancer*. 2020 Jul;134:86-89. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7237943/>

25. Hamilton W. Cancer diagnostic delay in the COVID-19 era: what happens next? 2020 Jul. [https://www.thelancet.com/pdfs/journals/lanonc/PIIS1470-2045\(20\)30391-0.pdf](https://www.thelancet.com/pdfs/journals/lanonc/PIIS1470-2045(20)30391-0.pdf)
26. WHO. Maintaining essential health services: operational guidance for the COVID-19 context. World Health Organization; 2020 Jun. See: p34 (top) Cancer screening (cervical, breast, colorectal)
27. The European response to the WHO call to eliminate cervical cancer as a public health problem. *Int J Cancer*. 2020 Jul 7. <https://pubmed.ncbi.nlm.nih.gov/32638362/>
28. Davis M. Cancer screening resumption during COVID-19 pandemic. Niagara Hamilton Regional Cancer Screening Program; 2020 Jul. <https://hnhbscreenforlife.ca/cancer-screening-resumption-during-covid-19-pandemic/>
29. Mast C, Munoz A. Delayed cancer screenings—a second look. EPIC Health Research Network. 2020 Jul. <https://ehrn.org/delayed-cancer-screenings-a-second-look/>
30. Ontario College of Family Physicians. Managing chronic conditions during COVID, resumption of cancer screening, OHT road map and more; 2020 Jul. <https://www.ontariofamilyphysicians.ca/news-features/family-medicine-news/~177-Managing-chronic-conditions-during-COVID-resumption-of-cancer-screening-OHT-road-map-and-more>
31. [Cancer Care During the COVID-19 Pandemic]. Cancer Leadership Council; 2020 Jun. https://www.astro.org/ASTRO/media/ASTRO/News%20and%20Publications/PDFs/CLC_letter.pdf
32. Shrotri K. Getting cancer services back on track during the coronavirus pandemic. Cancer Research UK. 2020 Jun. <https://scienceblog.cancerresearchuk.org/2020/06/22/getting-cancer-services-back-on-track-during-the-covid-19-pandemic/>
33. Resuming cervical screening. Scottish Government; 2020 Jun. <https://www.gov.scot/news/resuming-cervical-screening/>
34. Safety netting patients during the COVID-19 recovery phase. Cancer Research UK; 2020 Jun. https://www.cancerresearchuk.org/sites/default/files/safety_netting_guide_for_gps_and_practices_11.06.20.pdf
35. Bunnell C, Burstein H, Meyerhardt J. Should I Get Screened for Cancer During COVID-19?; 2020 Jun. <https://blog.dana-farber.org/insight/2020/06/should-i-get-screened-for-cancer-during-covid-19/>
36. COVID-19 cancer screening tip sheet for primary care providers: guidance for primary care providers resuming breast, cervical and colorectal cancer screening. Cancer Care Ontario; 2020 Jun. <https://www.afhto.ca/sites/default/files/2020-07/COVID-19%20Tip%20Sheet%20%2315-%20Guidance%20for%20Primary%20Care%20Providers%20Resuming%20Cancer%20Screening.pdf>
37. Alberta Health Services. COVID-19 Scientific Advisory Group Rapid Response Report; 2020 Jun. <https://www.albertahealthservices.ca/assets/info/ppih/if-ppih-covid-19-sag-starting-or-resuming-cancer-treatment-rapid-review.pdf>

38. Anderson M. Recommendations for regional health care delivery during the COVID-19 pandemic: outpatient care, primary care, and home and community care. Ontario Health; 2020 Jun.
https://www.wrh.on.ca/uploads/Coronavirus/Recommendations_Regional_Health_Care_Delivery_COVID19_June_8_2020.pdf
39. Cancer Research UK. Getting cancer services back on track during the COVID-19 pandemic. Medical Xpress. 2020 Jun. <https://medicalxpress.com/news/2020-06-cancer-track-covid-pandemic.html>
40. COVID-19: Directive #2 for health care providers (Regulated Health Professionals or Persons who operate a Group Practice of Regulated Health Professionals); 2020 May. http://www.health.gov.on.ca/en/pro/programs/publichealth/coronavirus/docs/directives/RHPA_professionals.pdf
41. EPIC Health Research Network. Preventive cancer screenings during COVID-19 pandemic; 2020 May. <https://ehrn.org/wp-content/uploads/Preventive-Cancer-Screenings-during-COVID-19-Pandemic.pdf>
42. Ferrario C. Consequences of the COVID-19 pandemic on cancer patients. Cancer World; 2020 May. <https://cancerworld.net/spotlight-on/unexpected-consequences-of-the-covid-19-pandemics-on-cancer-patients/>
43. Lee J. Thousands of cancer screening tests halted during pandemic restart in Alberta. CBC News; 2020 May 26. <https://www.cbc.ca/news/canada/calgary/alberta-cancer-screening-resumes-after-pandemic-suspension-1.5586513>
44. Saulet D. The 'new normal': 7 questions program leaders are asking about care amid Covid-19. Advisory Board, Oncology Rounds; 2020 May. <https://www.advisory.com/research/oncology-roundtable/oncology-rounds/2020/05/cancer-program-leaders-top-questions#Q6> See: question #6 - When and how are you resuming cancer screenings?
45. COVID-19 and cancer screening. BC Cancer; 2020. <http://www.bccancer.bc.ca/screening/health-professionals/covid-19-and-cancer-screening#Colon>
46. COVID-19 Rapid Evidence Profile #7: What are the international lessons learned from reopening non-COVID-19 activities in hospitals? McMaster Health Forum; 2020 May. https://www.mcmasterforum.org/docs/default-source/covidend/rapid-evidence-profiles/covid-19-rep-7_hospital-reopening.pdf?sfvrsn=38457d5_2
47. Resumption of services in medical practices during COVID-19. College of Physicians & Surgeons of Nova Scotia; 2020 May. <https://cpsns.ns.ca/resource/resumption-of-services-in-medical-practices-during-covid-19/>
48. Bray J. Routine cancer screening among last to return to non-COVID healthcare. Irish Times. 2020 May 21. <https://www.irishtimes.com/news/health/routine-cancer-screening-among-last-to-return-to-non-covid-healthcare-1.4258613>
49. Cancer screening to return during SHA phase one resumption of services. Regina CJME News. 2020 May. <https://www.cjme.com/2020/05/07/cancer-screening-to-return-during-sha-phase-one-resumption-of-services/>

50. Stenger M. Reduction in cancer diagnoses in the Netherlands during the COVID-19 pandemic. ASCO Post; 2020 May. <https://www.ascopost.com/news/may-2020/reduction-in-cancer-diagnoses-in-the-netherlands-during-the-covid-19-pandemic/>
51. ASCO special report: a guide to cancer care delivery during the COVID-19 pandemic. American Society of Clinical Oncology; 2020 May. <https://www.asco.org/sites/new-www.asco.org/files/content-files/2020-ASCO-Guide-Cancer-COVID19.pdf> See: p14 - Surge Planning; p19 - Cancer Screening
52. Pearce C. NHS England is reviewing suspension of national screening programmes. Pulse. 2020 Apr. <http://www.pulsetoday.co.uk/clinical/clinical-specialties/cancer/nhs-england-is-reviewing-suspension-of-national-screening-programmes/20040657.article>
53. Cancer Research UK. Cancer Research UK's response to the Health and Social Care Select Committee inquiry on 'Delivering Core NHS and Care Services during the Pandemic and Beyond'; 2020 Apr. https://www.cancerresearchuk.org/sites/default/files/april2020_cruk_hsc_submission_covid_cancer_final_public.pdf
54. National Screening Unit (New Zealand). COVID-19: Information for screening providers; 2020. <https://www.nsu.govt.nz/health-professionals/covid-19-information-screening-providers> See: National Cervical Screening Programme and National Bowel Cancer Screening Programme.
55. NHS. Advice on maintaining cancer treatment during the COVID-19 response; 2020 Mar. https://www.england.nhs.uk/coronavirus/wp-content/uploads/sites/52/2020/03/C0119-_Maintaining-cancer-services-_letter-to-trusts.pdf
56. Gottlieb S, Rivers C, McClellan MB, et al. National coronavirus response: a road map to reopening [health policy]. American Enterprise Institute; 2020 Mar. <https://www.aei.org/wp-content/uploads/2020/03/National-Coronavirus-Response-a-Road-Map-to-Recovering-2.pdf>
57. Deconfinement measures taken as clusters, and recovery is structured on cross-country collaboration. RPP Group; 2020 May. <https://rpp-group.com/rpp-blog/news-and-articles/deconfinement-measures-taken-as-clusters-and-recovery-is-structured-on-cross-country-collaboration/>