	Framework for cancer management mapped to pandemic phases across the continuum of care								
Phase	Prevention and early detection	Presentation, initial investigations and referral	Diagnosis, staging and treatment planning	Treatment Surgery	Radiation oncology	Systemic treatments	Care after initial treatment and recovery	Managing recurrent, residual or metastatic disease	End-of-life care
Acute Phase I: Semi-urgent setting: There are few COVID-19 patients, not rapidly escalating; haspital supplies and human resources are not exhausted; institutions still have ICU and ventifator capacity. ¹⁰	Continue population-based cancer screening for breast, cervica and bowel cancer	Encourage community members to continue to present to GP with red flag symptoms of cancer	Prioritise diagnostic procedures for patients with symptoms and test results suspicious for cancer	Delay surgery for patients not predicted to have a negative outcome if surgery is delayed for three months ^{3,6}	Reduce radiation therapy fractions (hypofractionation) where appropriate ^{7,8}	Minimise face-to-face visits including monitoring, treatment administration and staging, with shift to telehealth and communit based care where available ⁹	Delay face-to-face follow-up appointments (as well as any hospital imaging and/or blood tests) for patients where feasible ¹	Consider delaying commencement of IV treatment for patients with refractory/resistant disease or palliative regimens with a low likelihood of response/benefit ¹	Maximise communication with telehealth, including videoconferencing where possible ¹
	Continue human papillomavirus (HPV) vaccination through the National Immunisation Program	Utilise telehealth, including videoconferencing where possible, to assess patients with symptoms suspicious for cancer			Prioritise patients who have commenced a course of radiation therapy, and support these patients in completing their treatments ⁸	Defer nonessential investigations and routine follow-up 9	Maximise the number of reviews done by telehealth, including by videoconferencing where possible ⁹	Minimise commencement of palliative regimens with high risk of complications requiring admission ¹	Consider early referral and communication with community palliative care services ⁹
	Consider social distancing in planning screening appointments	Appropriately investigate and refer patients with symptoms suspicious for cancer to a specialist linked to a multidisciplinary team			Postpone brachytherapy treatments where possible ⁸	Use anal anticancer agents where possible, but weigh any different toxicities with convenience $^{\circ}$	Consider arranging for blood tests and scans to be done locally rather than at hospital facilities, especially for patients being reviewed by telehealth ¹	Consider treatment breaks for patients with low-volume and/or stable metastatic disease [®]	Empower patients and carers to manage symptoms at home, e.g., provide access to subcutaneous treatments
	Follow up abnormal screening results identified in patients alread screened, prioritising those highly suspicious for cancer ³	Y				Add G-CSF to chemotherapy regimens with a significant risk of febrile neutropenia. ¹ Consider use of G-CSF as primary prophylax to protect patients and reduce admission rates ⁴⁹	Consider innovative models of care, e.g., shared follow-up care with GP	Use short-course radiation therapy schedules for symptom control ⁹	Enhance provision of supportive and palliative care through innovative models of care
						Consider using alternate systemic anticancer therapy regimers with fewer visits, less frequent IV administration and of shorter duration, when there are acceptable alternatives. ^{14,9}	Ensure psychosocial support is provided		
						Consider possibility on timing approximate game provide care interments inclu- are not time critical (e.g., zoladoronic occid for bone metastaxes) o switching to and options to avoid hospital visits ^{1,9}	Fronze education of various long-term adjuvant therapies and after chemotherapy, ² including specific symptoms to be aware of (e.g., dysphagia, haematuria)		
Acute Phose II: Urgent setting: There are rapidly escalating numbers of COVID-19 patients, approaching limits of health system capacity: hospital supplies and human resources are limited: ICU and ventilator capacity is increasingly limited ¹⁰	Defer routine population-based cancer screening for breast, cervical and bowel cancer ¹	Encourage community members to continue to present to GP with red flag symptoms of concer	Prioritise diagnostic procedures for patients with symptoms and test results suspicious for cancer	Prioritise surgery for patients for whom surgery within 4 weeks is expected to save life or prevent progression of disease beyond operability ^{3,4,8}	Consider delay in commencement of treatment where survival o morbidity is not compromised	r transition patients from intravenous (IV) treatments to subculaneous or and chemotherapeutic medications if there are acceptable atternatives ^{4,3}	Delay face-to-face follow-up appointments (as well as any hospital imaging and/or blood tests) for patients where feasible ¹	Minimise commencement of IV treatment for patients with refractory/resistant disease or palifative regimens with a low likelihood of response/benefit ¹	Maximise communication with telehealth, including videoconferencing where possible ¹
	Follow up abnormal screening results identified in patients aread screened, prioritising those highly suspicious for cancer ³	Utilise telehealth, including videoconferencing where possible, to assess patients with symptoms suspicious for cancer			Where possible, use hypofractionation for adjuvant and radical treatments to reduce the number of treatment slots required [®]	Consider ways of reducing exposure for patients as a consequence of treatment. Consider coasing treatment for patients where the goals of treatment are limited; defer IV/ introperitoneal (IP) treatments for patients with refractory/ resistant disease ¹	Maximise the number of reviews done by telehealth, including by videoconferencing where possible ⁹	Consider deferring palliative radiation therapy treatments, (except where these are for life-threatering conditions such as haemorthage, superior vena cava obstruction) ⁸	Consider early referral and communication with community pallative care services ⁹
		Appropriately investigate and refer patients with symptoms suspicious for cancer to a specialist linked to a multidisciplinary team			Treat all emergency and urgent patients where alternative management to radiotherapy is not possible; patients with rapidh progressing, potentially curable tumours; patients already on treatment ³	Consider postponing/amilting supportive care treatments that y are not time critical, e.g., zoledronic acid for bone metastases, or switching to and options to avoid hospital visits. ¹⁹	Consider arranging for blood tests and scans to be done locally rather than at hospital facilities, especially for patients being reviewed by telehealth ¹	Consider deferring commencement of patilative treatments with high risk of complications requiring admission ¹	Empower patients and carers to manage symptoms at home, e.g., provide access to subcutaneous treatments
						Delay concurrent chemoradiation or adjuvant chemotherapy unless proven survival benefit for the addition of chemotherapy ¹	Consider innovative models of care, e.g., shared follow-up care with GP	Consider ceasing IV treatments for patients already on treatmen depending on risk of COVID-19 exposure ¹	t. Enhance provision of supportive and palliative care through innovative models of care, e.g., virtual hospitals delivering care in the home
						Consider less toxic regimen where efficacy advantage is minimal/unproven. Consider using less frequent immunotherapy regimens ⁴	Ensure psychosocial support is provided		Prioritise management of patients with urgent symptomatic need ^{1,3}
							Flowed education to putients adout inter specific tere of in immune suppression on various long-term adjuvant therapies and after chemotherapy, ⁹ including specific symptoms to be aware of, e.g., dysphagia, haematuria		
Acute Phase III: Emergency setting: Health system cognoly has been exceeded; hospital supplies and human resources are diverted to COVID-19 patients with no spare capacity; there is no spare ventilator or ICU capacity ¹⁰	Defer routine population-based cancer screening for breast, cervical and bowel cancer ¹	Encourage community members to continue to present to GP with red flag symptoms of cancer	Prioritise diagnostic procedures for patients with symptoms and test results highly suspicious for cancer	Prioritise urgent/emergency surgery for life-hreatening conditions such as obstruction, bleeding and regional and/or localised infection, and permanent injury/clinical harm from progression of conditions such as spinal card compression ⁴	Delay commencement of treatment	Delay starting adjuvant treatment ¹	Delay face-to-face follow-up appointments (as well as any hospital imaging and/or blood tests) for patients where feasible ¹	Minimise commencement of IV treatment for patients with refractory/resistant disease or palliative regimens with a low likelihood of response/benefit ¹	Consider ceasing pailiative treatments that have minimal chance of substantial benefit ¹
					Treat all emergency and urgent patients where alternative management to radiotherapy is not possible; patients with rapidit progressing, potentially curable tumours; and patients already or treatment ¹	Consider omitting or delaying adjuvant IV treatment if y improvement in overall survival small ¹ n		Consider ceasing IV freatments for patients already on freatmen depending on risk of COVID-19 exposure ¹). Prioritise management of patients with urgent symptomatic need ^{1,3}
	Follow up abnormal screening results identified in patients that are highly suspicious for cancer ³	Utilise telehealth, including videoconferencing where possible, to assess patients with symptoms suspicious for cancer				Consider omitting concurrent chemoradiation if improvement in overall survival small ¹			Enhance provision of supportive and palliative care through innovative models of care, e.g., virtual hospitals delivering care in the home
		Appropriately investigate and refer patients with symptoms suspicious for cancer to a specialist linked to a multidisciplinary team	_			Consider ceasing early or omitting cycles of immunotherapy in patients with good response to immunotherapy ¹			
						Lonsider detering commencement or regiment associated with high risk of needing admission. Consider starting with a less toxic regimen, reducing use of combination immunotherapy agents that, atthough can have survival advantages, have a much higher risk of toxicity (including pneumonitis) requiring hospital admission ⁹			
Past the peak of COVID-19, with fewer new cases recorded each day. Hospital supplies and human resources are starting to	Consider social distancing in planning screening appointments	Encourage community to continue to present to GP with red flag	Prioritise diagnostic procedures for patients with symptoms and	Gradual reintroduction of elective surgery, up to limit of	Continue hypofractionation where appropriate; gradual	Reintroduce adjuvant treatment as appropriate	Prioritise follow-up appointments (as well as any hospital imaging	Gradual reintroduction of standard of care according to	Gradual reintroduction of face-to-face care according to
become available, including hospital and ICU back, venificator, blood, healthy staff, personal protective equipment (PPE), and cifical testing. A limited COVD-19-free environment is in place, with adequate coronavirus testing and PPE	and delivering screening interventions	symptoms of cancer	test results suspicious for cancer	capacity/resources, according to jurisdictional guidelines	reintroduction of more appropriate/cost-effective fractionation		and/or blood tests) for high-risk patients	perceived risk; prioritising high-risk patients, depending on the environmental circumstances and each individual patient's risk o exposure to COVID-19 due to the resumption of care	perceived risk: prioritising high-risk patients, depending on the f environmental circumstances and each individual patients risk of exposure to COVID-19 due to the resumption of care
	Priorifise delayed or high-risk patients	Appropriately investigate and refer patients with symptoms suspicious for cancer to a specialist linked to a multidisciplinary team		Review of risk to vulnerable patients and consideration of alternatives to interventions in a potential COVID-19 environment Priorities high-risk patients and patients whose surgery was delaved due to the pandemic ⁴					
Early Phase Recovery: Curve 8: Past the peak of COVID-19, with fewer new cases recorded each day, Hospital supplies and human resources are available at normal levels, including hospital beds, healthy staff, PFE, and critical testing. A partial COVID-19-free environment is in place with adequate coronavirus testing and PPE where necessary	Consider social distancing in planning screening appointments and delivering screening interventions	Encourage community to continue to present to GP with red flag symptoms of cancer	Prioritise diagnostic procedures for patients with symptoms and test results suspicious for cancer	Gradual reintroduction of elective surgery, up to limit of capacity/resources, according to jurisdictional guidelines	Continue hypofractionation where appropriate; gradual reintroduction of more appropriate/cost-effective fractionation	Reintroduce adjuvant treatment as appropriate	Prioritise follow-up appointments (as well as any hospital imaging and/or blood tests) for high-risk patients and patients whose appointments were delayed during acute phases	Gradual reintroduction of standard of care according to perceived risk; prioritising high-risk patients, depending on the environmental circumstances and each individual patient's risk c	Gradual reintroduction of face-to-face care according to perceived risk; prioritising high-risk patients, depending on the of environmental circumstances and each individual patients risk of
	Prioritise delayed or high-risk patients	Appropriately investigate and refer patients with symptoms		Review of risk to vulnerable patients and consideration of				exposure to COVID-19 due to the resumption of care	exposure to COVID-19 due to the resumption of care
		suspicious for cancer to a specialist linked to a multidisciplinary team		alternatives to interventions in a potential COVID-19 environment Prioritise high-risk patients and patients whose surgery was delaved due to the pandemic ⁶					
Inte Phose Recovery: Curve A:	Gradual reintroduction of standard of care according to perceive	d isk prioritising high risk patients, depending on the environmen	tal circumstances and each individual patient's risk of exposure to	COVID-19 due to the resumption of care					
Well past the peak of new COVID-19 cases by at least 14 days. Hospital supplies and human resources are more readily available	Prioritise delayed or high-risk patients	Encourage community to continue to present to GP with red flag	Prioritise diagnostic procedures for patients with symptoms and	Gradual reintroduction of elective surgery, up to limit of	Continue hypofractionation where appropriate; gradual	Reintroduce adjuvant treatment as appropriate	Prioritise follow-up appointments (as well as any hospital imaging	Gradual reintroduction of standard of care according to	Gradual reintroduction of face-to-face care according to
to near-normal levels, including hospital and ICU beds, ventilators, blood, healthy staff, PPE, and readly-available testing to track cases and monitor as needed individuals entering the hospital environment. A substantial and high-functioning COVID- 19- free environment is in place		symptoms of cancer	test results suspicious for cancer	capacity/resources, according to jurisdictional guidelines	reintroduction of more appropriate/cost-effective fractionation		and/or blood tests) for high-risk patients and patients whose appointments were delayed during acute phases	perceived risk: prioriting high-risk patients, depending on the environmental circumstances and each individual patient's risk a exposure to COVID-19 due to the resumption of care	perceived risk: prioritising high-risk patients, depending on the environmental circumstances and each individual patient's risk of exposure to COVID-19 due to the resumption of care
	consistent remponent and gues to dourses backlog of dealyed screens, including optimising use of resources to prioritise high-risk patients, and maximise participation in screening	suspicious for cancer to a specialist linked to a multidisciplinary team		delayed due to the pandemic ⁴					
Late thase tecovery: Curve 1: Weil part the low peak of new COVID-19 cases by at least 14 days. Hospital supplies and human resources are available at normal levels, including hospital beds, and healthy staff. PPE is required only for suspected or confirmed cases or in high-trik selfings, and readly vacilable convolvis testing to track cases and monitor as needed individuals entering the hospital environment. A substantial and high-functioning COVID-19-free environment is in place ¹⁰	Prioritise delayed or high-risk patients	Encourage community to continue to present to GP with red flog symptoms of cancer	Prontise diagnostic procedures for patients with symptoms and test results suspicious for cancer	caracuat reintraduction of elective surgery, up to limit of capacity/resources, according to jurisdictional guidelines	Contrue hypotractionation where appropriate; gradual reintraduction of more appropriate/cost-effective fractionation	kentroduce adjuvant freatment as appropriate	prioritise follow-up appaintments (as well as any hospital imaging and/or blood tests) for high-risk patients and patients whose appointments were delayed during acute phases	Laraqual reintroduction of standard of care according to perceived risk prioritising high-risk patients. Lepending on the environmental circumstances and each individual patient's risk a exposure to COVID-19 due to the resumption of care	suracul reinfraduction of face-to-face care according to perceived risk prioritising high-risk patients, depending on the if environmental circumstances and each individual patient's risk of exposure to COVID-19 due to the resumption of care
	Consider mitigation strategies to address backlog of delayed screens, including optimising use of resources to prioritise high-risk patients, and maximise participation in screening			Prioritise high-risk patients and patients whose surgery was delayed due to the pandemic ⁴					

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geon. ACS Guidelines for Bloge and Management of Elective Cancer Surgery Coses During the Acute and Recovery Phases of Corono