

BC Cancer Tumour Group Specific Prioritization and Mitigation Recommendations

during COVID-19 Pandemic

Developed by BC Cancer Tumour Groups May 4th, 2020



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Abbreviations

ADT	Androgen Deprivation Therapy
API	Androgen Pathway Inhibitor
ARR	Absolute Risk Reduction
BSC	Best Supportive Care
CLL	Chronic Lymphocytic Leukemia
CNS	Central Nervous System
СТ	Chemotherapy
DCIS	Ductal Carcinoma In Situ
DHIT	Double-Hit Lymphoma
DIBH	Deep Inspiration Breath Hold
DLBCL	Diffuse Large B-Cell Lymphoma
EOC	Epithelial Ovarian Carcinoma
ER	Estrogen Receptor
ET	Endocrine Therapy
FN	Febrile Neutropenia
FU	Follow Up
HNSCC	Head and Neck Squamous Cell Carcinoma
GBM	Glioblastoma
GCT	Germ Cell Tumour
GI	Gastrointestinal
GTN	Gestational Trophoblastic Neoplasm
GU	Genitourinary
НСС	Hepatocellular Carcinoma
HER2	Human Epidermal Growth Factor Receptor 2
IMRT	Intensity Modulated Radiotherapy
IGCCCG	International Germ Cell Cancer Collaborative Group



IR	Interventional Radiology
mCRPC	Metastatic Castration-Resistant Prostate Cancer
MCL	Mantle Cell Lymphoma
МО	Medical Oncologist
NET	Neuroendocrine Tumour
NHL	Non-Hodgkin Lymphoma
NLPHL	Nodular Lymphocyte Predominant Hodgkin Lymphoma
NPC	Nasopharyngeal Carcinoma
NSCLC	Non-Small Cell Lung Carcinoma
OAR	Organs At Risk
OS	Overall Survival
PFS	Progression Free Survival
PMBCL	Primary Mediastinal Large B-Cell Lymphoma
PR	Progesterone Receptor
PRRT	Peptide Receptor Radionuclide Therapy
PTCL	Peripheral T-Cell Lymphoma
RO	Radiation Oncologist
RT	Radiation Therapy
SABR	Stereotactic Ablative Body Radiotherapy
SCC	Squamous Cell Carcinoma
SCLC	Small Cell Lung Cancer
SPB	Solitary Plasmacytoma of Bone
SSA	Somatostatin Analogue
ST	Systemic Therapy
ТКІ	Tyrosine Kinase Inhibitors



The purpose of the following tables (divided for systemic therapy and radiotherapy) are:

- 1) To provide tumour group recommendation on prioritization level appropriate alterations in treatment for each indication if a centre needs to start restricting access to particular priority phases outlined in the BC Cancer Prioritization Framework. These recommendations are meant to serve as a guidance document.
- 2) To provide tumour group recommendations on radiotherapy fractionations and techniques, and systemic therapy regimens that are the most efficient possible (in terms of complexity, time requirements and number of patients visits), and least likely to precipitate increased need for medical care within all priority phases during the pandemic.

BC Cancer Prioritization Framework

The prioritization framework prioritizes indications according to the urgency of the particular indication, and the relative benefit of the treatment of that indication with Radiotherapy or systemic therapy. Prioritization level 1 having more urgency or benefit, and prioritization level 6 having the lowest urgency or benefit.

Prioritization	External Beam Radiation*		IV Systemic Therapy
Level			
1	 Emergencies: cord compressions, life threatening bleeding, circulatory or respiratory obstruction. 	•	Emergencies: chemo-sensitive malignancy causing or at high risk of organ function compromise (e.g. airway obstruction, spinal cord compression, bowel obstruction, severe debilitating symptoms, severe potentially reversible metabolic derangement)
2	Curative intent RT for:	•	Limited or extensive stage small cell carcinoma
	 Squamous cell cancer of the Head & Neck, Cervix, Anus or Esophagus 	•	Curative intent treatment for germ cell cancers and lymphoma



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	 Aggressive and intermediate grade Lymphoma Bladder cancer Small cell cancers Neoadjuvant RT for rectal cancer with a 5 day regimen Pediatric cases Palliative RT for intractable symptom from cancer in patient with > 6 week life expectancy 	 Neoadjuvant treatment where there is high likelihood of enabling surgical cure and high level evidence supporting that treatment (e.g. locally advanced breast cancer) Patients eligible for dual modality treatment with curative intent (e.g. squamous cell cancer of the head & neck, cervix cancer, bladder, and lung cancer)
3	 Other curative-intent RT in whom there is clinical or radiographic evidence of gross tumour present that is not otherwise specified Neoadjuvant RT for sarcoma, locally advanced breast and rectal cancer with a 25 day regimen Adjuvant or prophylactic RT for indications associated with a survival benefit Curative RT for good prognosis gliomas Palliative RT for indications not otherwise specified in patient with > 6 week life expectancy 	 Palliative therapy for patients who have moderate to severe symptoms Patients being considered for adjuvant treatment where the absolute reduction in risk is ≥ 10%.
4	 Curative intent RT to the low and intermediate risk Prostate cancer or high risk localized prostate cancer responding to Androgen Deprivation. Adjuvant RT indications that are not associated with a survival benefit (e.g. DCIS of the breast) Benign CNS lesions (pituitary, meningioma (other than optic meningiomas) Palliative RT for poor prognosis gliomas/glioblastomas Prophylactic palliative RT for asymptomatic 	 Palliative therapy for patients that have no or minimal symptoms Patients being considered for adjuvant treatment where the absolute risk reduction is less than 10% but greater than 2%



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	 lesions RT for low grade lymphoma SABR for asymptomatic oligometastatic disease Palliative RT for brain metastases in cases where there is a systemic options with potential CNS control Non-melanoma skin cancer Palliative RT for symptom from cancer that are currently reasonably controlled with other methods 	
5	 Very Low risk prostate cancer Adjuvant RT for low risk DCIS Palliative RT near end of life (<6 weeks survival) Non-threatening meningiomas Patients in whom treatments other than radiation are options to replace or defer radiation (e.g. hormonal therapy in selective patients with prostate cancer or with low risk luminal A breast cancer or women over 70 years of age with low risk breast cancer). 	 Palliative therapy where there is minimal expected benefit from patient factors (e.g. those with poor performance status ≥3) and/or for whom the benefits of systemic therapy are minimal (e.g. response rate <10%, median PFS/OS benefits <2 months) Patients being considered for adjuvant treatment with an absolute risk reduction of less than 2% (e.g. adjuvant bisphosphonates) Patients who are on palliative intent therapy and have been on the same regimen for > 6 months will be considered for treatment interruption or lengthening the interval between treatments
6	 Elective non-malignant cases. Heterotopic bone Hyperplastic soft tissue lesions: peyronie's disease, Dupuytren's contracture) Minimal risk acoustic neuromas, Arteriovenous malformations 	Not Applicable



2.0 Breast Cancer

2.1 Systemic Therapy

Tumour	Subsite/risk	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Management	Option for Use	Management Options	(Reasonable delays,
				<u>when</u>	when Prioritization Level	other treatment
				Prioritization	Activated	options, other
				Level Activated		<u>comment)</u>
Breast	Metastatic-with	1	Chemotherapy	Consider multi-	Most effective in HER2+	For Emergencies:
	emergent			agent CT regimen	or ER-/PR-/HER2-	Causing or at high
	indications (see			given q3 week:	subtypes	risk of organ
	comments)			BRAVPTRAD;		function/
				BRAVPTRAT;	Consider RT	compromise
						(e.g. airway
				BRAVGEMP;		obstruction, bowel
				BRAVGEMT		obstruction, severe
						potentially reversible
				And/or RT		metabolic
						derangement)
Breast	Adjuvant	2	Neoadjuvant and	Neoadjuvant	For all ER+/HER2-stage II-	Neoadjuvant
			adjuvant	chemotherapy	III breast cancers start on	chemotherapy only
			chemotherapy	only.	neoadjuvant hormonal	given for HER2+; ER-
					therapy (except weak	/PR- /HER2-; or
				No new starts of	ER+/PR-/HER2-)	weakly ER+/PR-
				adjuvant		/HER2-
				chemotherapy.		
Breast	Adjuvant	3	BRAJTR	Adjuvant		Based on
				trastuzumab for 6		PERSEPHONE data
				months total only		
Breast	Adjuvant	3	Adjuvant	Adjuvant	For tumours felt to be	For adjuvant



Tumour	Subsite/risk	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Management	Option for Use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization Level	<u>other treatment</u>
				Prioritization	Activated	options, other
				Level Activated		<u>comment)</u>
			chemotherapy for	chemotherapy for	chemo-sensitive and T3	chemotherapy where
			Stage I-III	Stage IIB-III only	and/or node positive	absolute risk
						reduction (ARR) for
						relapse free survival
						is ≥10%
Breast	Metastatic-Non-	3	$1^{st} - 3^{rd}$ line	Only regimens	1st and 2nd line i.v.	Use Capecitabine in
	emergent (see		chemotherapy for	permissible:	treatment for HER2+	all other instances.
	comment in row 1		IVIBC	BRAVPIRAD;	IVIBC ONLY.	Lico hormonal
	abovej			BRAVPIRAL;	1 st line in the stars at fact	
						therapies +/-
				BRAVABR;	ER-/PR-/HER2-IVIBCONIY.	targeted therapy as
				BRAVGEINIP;	1 st line in the stars at fact	much as possible.
				BRAVAC		
					ER+/HER2-IVIBCIO	
					visceral crisis only.	
					Consider omitting	
					gemcitabine in	
					BRAVGEMP.	
Breast	Metastatic Non-	3	Maintenance	BRAVTR to be		In ER+/HER2+ add
	emergent (see		trastuzumab +/-	given every 6 - 8		maintenance
	comment in row 1		pertuzumab	weeks (includes		hormonal therapy if
	above)			the pertuzumab if		not already started.
				given).		
				OR consider		



Tumour	Subsite/risk	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Management	Option for Use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization Level	other treatment
				Prioritization	Activated	options, other
				Level Activated		<u>comment)</u>
				holding treatment		
Breast	Metastatic Non-	4	≥4 th line	Stop:	No new ≥4 th line i.v.	Only for new starts.
	emergent (see		chemotherapy for	BRAVA7;	chemotherapy for MBC.	
	comment in row 1		MBC	BRAVDOC7;		
	above)			BRAVTW;	For 1 st – 3 rd line regimens:	
				BRAVERIB;	Switch to q3 week	
				BRAVGEM;	regimens if possible.	
				BRAVGEMD;		
				BRAVGEMP;	May consider BRAVTW	
				BRAVGEMT;	over q3weekly regimens	
				BRAVNAV;	based on balance of	
					neutropenic risk and	
					other factors.	
Breast	Adjuvant	5	Adjuvant	Stop all current	Consider oral	Consider
			bisphosphonates	and new adjuvant	bisphosphonates (e.g.	implementing in
				i.v.	alendronate*)	phase 1 or
				bisphosphonates		prioritization.
Breast	Metastatic	5	Metastatic	Stop all current	Oral Clodronate or hold	Consider
			bisphosphonates:	and new i.v.	on bisphosphonates until	implementing in
			BRAVPAM	bisphosphonates	Pandemic resolved	phase 1 of
			BRAVZOL	and switch to oral		prioritization.
				bisphosphonate		
						Can still use iv
						regimens for
						hypercalcemia.
Breast	Metastatic	5	LHRH	Switch q4 week		Consider



Tumour	Subsite/risk	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Management	Option for Use	Management Options	(Reasonable delays,
				<u>when</u>	when Prioritization Level	other treatment
				Prioritization	Activated	options, other
				Level Activated		<u>comment)</u>
			Pre-menopausal	LHRH toq 12		implementing in
			MBC	week LHRH		phase 1 of
						prioritization now.
Breast	Adjuvant	5	LHRH	Switch q4 week		Consider
			Pre-menopausal	LHRH toq 12		implementing now if
			early breast	week LHRH		possible.
			cancer			

Footnotes:

Abbreviations: CT: chemotherapy; RT: radiotherapy; ET: endocrine therapy

* Alendronate is not covered by BC Cancer for this indication

2.2 Radiation Therapy

Tumour	Subsite/risk	Prioritization	Preferred	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Fractionation and	Option for	Management Options	<u>(Reasonable delays,</u>
			Technique if RT	Deferral of RT	when Prioritization Level	other treatment
			used	During Pandemic	Activated	options, other
			(Current			<u>comment)</u>
			Standard)			
Breast	Mass causing	1	Simple palliative	No deferral	Lowest number of	- If neurologic
	brachial		technique.		fractions for palliation,	symptoms with arm
	plexopathy		Palliative dose		Consider: 20 Gy/5#	weakness should
			per RO discretion.			start within 48hs of
						presentation
						-If no neurologic



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and	Management Option for	Specifics Regarding Management Options	<u>Comments:</u> (Reasonable delays,
			<u>Technique if RT</u>	Deferral of RT	when Prioritization Level	<u>other treatment</u>
			used	During Pandemic	Activated	options, other
			(Current			<u>comment)</u>
			<u>Standard)</u>			
						symptoms and pain
						only could be
						delayed 1 week
Breast	Fungating breast	2	Simple palliative	No deferral	Lowest number of	-Reasonable to delay
	mass		technique		fractions for palliation,	1-2 weeks depending
			Palliative dose	Palliative	Consider 20Gy/5	on patient symptoms
			per RO discretion	mastectomyif		- could consider
				feasible.		mastectomyif
						tumour resectable
Breast	-T3-4N0, T1-4 N+,	3	40Gy-42.5Gy/16#	CT or ET	Fractionation:	-Reasonable to delay
	triple negative,		or 50Gy/25# or		-Hypofractionation	RT up to 16 weeks
	HER2+, margin+		50.4Gy/28#		should be used for all	after surgery (with no
	(with no re-				clinically appropriate	chemo) and 8 weeks
	excision)		Technique: can		patients. Acceptable	after chemo
	-T1-3N0 patients		include:		doses: 40-42.5Gy/15-16#	-If hormone receptor
	with		Tangent, 4FLD,		-Limit use of boost	positive, and RT is
	recommended		IMRT, DIBH,		-consider for: close/	delayed, ideally
	chemo (even if		prone (other		+margins, triple negative	patients would be
	patient declines		heart sparing		and age <50 years	started on ET
	chemo)		techniques)			-Consider: RO could
					Techniques	initiate ET for lower
					-Uses the simplest	risk patients, for
					planning technique to	higher risk prefer MO
					achieve standard target	involvement
					and OAR constraints	



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other
			(<u>Current</u> Standard)			<u>comment)</u>
					-Omit DIBH when appropriate -Decrease OAR contours to minimum needed to evaluate plan safety	
Breast	-T1-2NO, ER+, PR+, HER2-age <65 -Luminal A-like (ER+ and PR+ and HER2-) and age ≥65, and T1-2NO, and NOT offered or declines endocrine therapy -High risk DCIS	4	Fractionation: 40Gy-42.5Gy/16# or 50Gy/25# or 50.4Gy/28# Technique: can include: Tangent, 4FLD, IMRT, DIBH, prone (other heart sparing techniques)	ET	Fractionation: -Hypofractionation should be used for all clinically appropriate patients. Acceptable doses: 40-42.5Gy/15-16# -Limit use of boost -consider for: multiple close/+margins -Where nodal RT not planned, consider using accelerated hypofractionation per the FAST FORWARD trial (26Gy/5#)** Techniques -Uses the simplest planning technique to achieve standard target	-Reasonable to delay RT start up to 20 weeks after surgery -Ideally patients would be on ET as appropriate -RO could initiate endocrine therapy for low risk patients



<u>Tumour</u>	Subsite/risk	Prioritization	Preferred	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Fractionation and	Option for	Management Options	<u>(Reasonable delays,</u>
			<u>Technique if RT</u>	Deferral of RT	when Prioritization Level	other treatment
			used	During Pandemic	Activated	options, other
			(Current			<u>comment)</u>
			Standard)			
					and OAR constraints	
					-Omit DIBH when	
					appropriate	
					-Decrease OAR contours	
					to minimum needed to	
					evaluate plan safety	
Breast	-Luminal A-like	5	Fractionation:	Consider Omitting	Fractionation:	-RO could initiate ET
	(ER+ and PR+ and		-Omission of RT if	RT and start	-Hypofractionation	in this group of
	HER2-) and age		patient on	patient on ET as	should be used for all	patients
	≥65, and T1-2N0,		endocrine	appropriate	clinically appropriate	
	and on endocrine		therapy		patients. Acceptable	
	therapy		-42.5Gy/16 or		doses: 40-42.5Gy/15-16#	
	-Low risk DCIS:		50Gy/25		-Limit use of boost	
					-consider for: multiple	
			Technique: can		close/+margins	
			include:		-Where nodal RT not	
			Tangents, partial		planned, consider using	
			breast, DIBH		accelerated	
					hypofractionation per the	
					FAST FORWARD trial	
					(26Gy/5#)**	
					Techniques	
					-Uses the simplest	
					planning technique to	



<u>Tumour</u> subsite	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	Preferred Fractionation and Technique if RT used	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other
			<u>(Current</u> Standard)			<u>comment)</u>
					achieve standard target and OAR constraints -Omit DIBH when appropriate -Decrease OAR contours to minimum needed to evaluate plan safety	

*Abbreviations: RT: radiotherapy, Gy: Gray, CT: chemotherapy, ET: endocrine therapy, RO: radiation oncologist, MO: medical oncologist, ER: estrogen receptor, PR: progesterone receptor, HER2: human epidermal growth factor receptor 2, DCIS: ductal carcinoma in situ, IMRT: intensity modulated radiotherapy, OAR: organs at risk, DIBH: deep-inspiration breathe hold.

**FAST FORWARD trial: Acute toxicity slightly better than control arm of 40Gy/15 fractions. 3 year toxicity data is equivalent to the control arm of 40Gy/15 (submitted for publication but not yet published). No 5 year local control data available yet but predicted to have low recurrence given the low risk patients. If choosing this dose/fractionation this needs to be clearly explained to patients.



Provincial Health Services Authority 3.0 Central Nervous System

3.1 Systemic Therapy

<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	<u>Current</u> Management	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
Brain	Low Grade Glioma	3	RT + PCV chemotherapy	Eliminate VCR from PCV regimen to convert to all oral meds	Switch from PCV to Temozolomide	Brain
Brain	Relapsed Glioblastoma (Temozolomide resistant)	4	CNBEV	Dexamethasone until Bevacizumab available. Use 3 week dosing interval.	Triage patient urgency based on Imaging features and symptoms, Consider oral chemo options (CNCCNU, CNETO)	For most GBM delay of 2-3 weeks max is acceptable but longer risks increased symptom burden

3.2 Radiation Therapy

Tumour	Subsite/risk group	Prioritization	Preferred	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Fractionation	Option for	Management Options	<u>(Reasonable delays,</u>
			and Technique if	Deferral of RT	when Prioritization Level	other treatment
			<u>RT used</u>	During Pandemic	Activated	options, other
						<u>comment)</u>
Brain	Gr 3 Astrocytoma	3	ChemoRT with	Surgery debulking		Delays up to 12
	and		6000cGy/30	for tumours in		weeks post
	Oligodendroglioma			non-eloquent		debulking surgery
				brain.		are acceptable in



Tumour	Subsite/risk group	Prioritization	Preferred	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Fractionation	Option for	Management Options	(Reasonable delays,
			and Technique if	Deferral of RT	when Prioritization Level	other treatment
			<u>RT used</u>	During Pandemic	Activated	options, other
						<u>comment)</u>
						asymptomatic or
				Temozolomide		minimally
				chemotherapy,		symptomatic
				especially for		patients
				Oligo*.		
Brain	Gr 2 Astrocytoma	3	ChemoRT with	Observation;		Most grade 2
	and		5040 cGy/28	Surgery debulking		tumors can be
	Oligodendroglioma			for tumours in		delayed up to 6
				non-eloquent		months following
				brain.		surgery or biopsy
				Tomozolomido		
				chemotherapy		
				especially for		
Brain	Glioblastoma	1	For age< 70 and	Surgical debulking	For age< 70 and KPS>60.	Delayfrom
Brain	Chobidstonia		KPS>60.	for tumours in	ChemoRT with	debulking surgery
			ChemoRT with	non-eloquent	4000cGy/15	un to 8 weeks not
			6000cGv/30	hrain	400000 97 13.	associated with
			0000000,750.	Si uni.	BT alone with 2500cGy/5	increased mortality
			For age $>/= 70$ or	Temozolomide	for age $>/= 70$ or KPS 40-	mereuseumortanty
			KPS 40-60	chemo for MGMT	60 cases	
			ChemoRT with	methylation		
			4000 cGv/15	nositive cases		
Brain	Metastases	4	Depending on	Surgery debulking	Best supportive	
		-				



<u>Tumour</u>	Subsite/risk group	Prioritization	Preferred	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Fractionation	Option for	Management Options	<u>(Reasonable delays,</u>
			and Technique if	Deferral of RT	when Prioritization Level	<u>other treatment</u>
			<u>RT used</u>	During Pandemic	Activated	options, other
						<u>comment)</u>
			location, number	non-eloquent		
			of mets and	brain.		
			patient's		WBRT 2000 cGy/5	
			performance	Targeted therapy	VMAT to mets only 2000	
			status, all of the	or	cGy/5	
			options are	immunotherapy if		
			considered:	clinically		
			WBRT 2000	indicated.		
			cGy/5			
			VMAT to mets			
			only 2000 cGy/5			
			SRS 1500-2000			
			cGy/1			
			SRT 2500-3500			
			cGy/5			
Brain	Meningioma	5	SRT 5000 cGy/25	Observation;	SRS ~1300cGy/1 or	Minimally
			(or 5040 cGy/28	Surgery	hypofractionated SRT	symptomatic
			if close to optic		2100 cGy/3 or 2500cGy/5	patients may safely
			chiasm) for grade		for small, grade 1 tumors	be delayed for 6
			1 tumours. 5400		located >/=5mm from	months
			cGy/30 for grade		optic chiasm.	
			2 tumours and			
			6000 cGy/30 for			
			grade 3 tumours.			
Brain	Pituitary Adenoma	5	SRT 5000 cGy/25	Observation;	SRS ~1300cGy/1 or	Minimally
				Surgery;	hypofractionated SRT	symptomatic



<u>Tumour</u> <u>subsite</u>	Subsite/riskgroup	Prioritization Level	Preferred Fractionation and Technique if RT used	Management Option for Deferral of RT During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
				Medical suppressive therapy for hormone secreting tumors	2100 cGy/3 or 2500cGy/5 for small tumors located >/=5mm from optic chiasm.	patients may safely be delayed for 6 months
Brain	Acoustic Neuroma	6	SRS 1200 cGy/1 for small tumours with no useful hearing. SRT 5000 cGy/25 for small tumours with useful hearing or large tumours.	Observation; Surgery	Hypofractionated SRT 2100 cGy/3 or 2500cGy/5 for small tumours with useful hearing or large tumours.	Minimally symptomatic patients may safely be delayed 6 months
Brain	Rare CNS Tumors	N/A	Refer to Multidisciplinary Case Conference for management guidance.			



Provincial Health Services Authority 4.0 Gastrointestinal Cancers

4.1 Systemic Therapy

Tumour	Subsite/risk	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Management	Option for use	Management Options	(Reasonable delays,
				when	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		comment)
GI	Pancreas	3	Chemotherapy	Consider	Consider PS, prognosis	If unable to give IV
	(Advanced)		(IV)	capecitabine-	and anticipated benefit of	chemotherapy could
				based regimens.	palliative chemotherapy	consider chemo
						holiday in responding
				RT for		patients, or single
				symptomatic		agent capecitabine as
				metastasis		a maintenance
						strategy.
GI	Pancreas	3	Chemotherapy	Consider		If unable to give IV
	(Resectable)		(IV)	capecitabine -		chemotherapy could
				based regimens.		consider single agent
				RT if positive		capecitabine
				margins.		
GI	Esophageal	3	Chemotherapy	Consider	RT to symptomatic	
	(unresectable)		(IV)	capecitabine	primary tumour	
					(bleeding, obstruction)	
GI	Esophageal/GE	2	Neoadjuvant	RTalone		Consider adjuvant
	(resectable)		ChemoRT			chemo post-op
GI	Gastric	3	Chemotherapy	Consider	RT for symptomatic	
	(unresectable)		(IV)	capecitabine	primary (bleeding,	
					obstruction).	
					Consider PS, prognosis	



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	<u>Current</u> <u>Management</u>	Management Option for use when prioritization	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment
					and anticipated benefit of palliative chemotherapy.	
GI	Gastric (resectable)	2	Neoadjuvant Chemotherapy (IV)	Consider capecitabine		
GI	Biliary (unresectable)	3	Chemotherapy (IV)	Consider capecitabine	Consider PS, prognosis and anticipated benefit of palliative chemotherapy.	
GI	Biliary (resectable)	3	Chemotherapy (PO)	None	RT	
GI	HCC (unresectable)	3	Chemotherapy (oral TKI)	May continue TKI	Local Rx (RT, IR)	Consider dose modification to minimize toxicities
GI	HCC (resectable)	3	none	None	Local Rx (RT, IR)	
GI	Colon (unresectable)	3	Chemotherapy (IV)	Consider capecitabine. If prolonged SD (stable disease) or response consider chemo break.		If unable to give IV chemotherapy could consider single agent capecitabine. If 5FU resistant, could consider CAP- approval for trifluridine/tipiracil on a one week on, one week off schedule (to



<u>Tumour</u>	<u>Subsite/risk</u>	Prioritization	<u>Current</u>	<u>Management</u>	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	<u>Management</u>	Option for use	Management Options	<u>(Reasonable delays,</u>
				when	when Prioritization Level	<u>other treatment</u>
				prioritization	<u>Activated</u>	options, other
				level activated		<u>comment)</u>
						minimize
						neutropenia)
GI	Colon (resectable)	3	Adjuvant	Consider	Adjuvant chemo reserved	
			Chemotherapy	capecitabine	for T4-stage II or stage III	
			(IV)			
GI	Rectal	3	Chemotherapy	Consider	Consider short course RT	
	(unresectable)		(IV)	capecitabine.	for symptomatic	
				If prolonged SD or		
				response consider		
				chemo break.		
GI	Rectal	3	Neoadjuvant	Capecitabine		
	(resectable)		ChemoRT			
GI	Neuroendocrine	2	Chemotherapy	Continue IV		
	Carcinoma			chemotherapy if		
	(metastatic)			symptomatic but		
				consider delay if		
				asymptomatic.		
				Could consider		
				oral etoposide.		
GI	NET	4 if no	SSA*, PRRT*,	Observation if low		An SSA should be
	(unresectable)	syndrome	chemo or	rate of		considered in
			targeted agents	growth/low grade		patients with
						functional tumors to
		3 if	SSA +/- PRRT,	SSA +/- oral agents		prevent refractory



<u>Tumour</u> subsite	<u>Subsite/risk</u> group	Prioritization Level	<u>Current</u> Management	Management Option for use	Specifics Regarding Management Options	<u>Comments:</u> (Reasonable delays,
				when	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		<u>comment)</u>
		symptomatic	chemo or			diarrhea that could
		(carcinoid or	targeted agents			result in a
		tumour				hospitalization.
		burden)				
GI	NET (resectable)	2	SSA peri-	Short acting SSA		
			operative	peri-operative		
GI	Anal (curative intent)	2	ChemoRT		RT alone	
GI	Anal (metastatic) 1 st line	3	Chemotherapy (IV)	Consider capecitabine	Consider PS, prognosis and anticipated benefit of palliative chemotherapy	If unable to give IV chemotherapy could consider single agent capecitabine

4.2 Radiation Therapy

<u>Tumour</u> subsite	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	Preferred Fractionation and Technique if RT used	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment
						<u>comment</u>
GI	Esophagus	2	Pre-op ChemoRT	Surgery for	Consider shorter course	Consider stent alone
			4140 cGy/23 to	resectable.	of RT (4000 cGy/15	for palliative cases if
			5000 cGy/25		fractions) alone	service available
			fractions for	Chemotherapy for		
			resectable.	non-resectable.		



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment
				During randenne	Activated	<u>comment)</u>
			ChemoRT 5000 cGy/25 fractions for non- resectable			
GI	Rectum	2	Pre-op RT 2500 cGy/5 fractions for resectable that does not require down- staging. Pre-op ChemoRT 4500 cGy/25 fractions for resectable that requires down- staging and unresectable.	Surgery for resectable. Chemotherapy for non-resectable.	For cases that requires down staging, consider either short course of RT (2500 cGy/5 fractions) and wait for 8-12 weeks to assess its full effect before surgery, or short course of RT (2500 cGy/5 fractions) followed by FOLFOX chemotherapy 9- 12 working days post RT X 4 cycles before surgery.	For cases that requires down- staging, wait time for surgery should be delayed for 8-12 weeks to assess its full effect. Could consider chemotherapy if surgery delayed.
GI	Anal canal	2	ChemoRT 5400 cGy/30 fractions	Surgery for resectable. Chemotherapy for non-resectable.	For cases suitable by trans-anal local excision, consider a shorter course of ChemoRT (3000 cGy/15 fractions)	



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	<u>Preferred</u> <u>Fractionation and</u> <u>Technique if RT</u> <u>used</u>	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
GI	HCC	3	SABR 4500cGy/3- 5 fractions	Surgery for resectable. IR options (ablation or embolic therapy) or target therapy for non- resectable.	None	

*Abbreviations: HCC: hepatocellular carcinoma; NET: neuroendocrine tumour; TKI: tyrosine kinase inhibitor; SSA: somatostatin analogue; PRRT: peptide receptor radionuclide therapy; IR: interventional radiology. SABR: Stereotactic Ablative Body Radiotherapy



Provincial Health Services Authority 5.0 Genitourinary Cancers

5.1 Systemic Therapy

subsite subsitegroupLevelLevelOption for use when prioritization level activatedManagement Options when Prioritization Level Activated(Reasonable delays, other treatment options other comment)ProstateMetastatic Castration- sensitive -3ADT ± Novel Androgen- pathway inhibitor (API) (abiraterone, analutamideCould get ADT alone but combo has OSAvoid docetaxelAll oral / 3 months injection therapy	Tumour	Subsite/risk	Prioritization	Current Management	Management	Specifics Regarding	Comments:
when prioritization level activated when prioritization level activated when Prioritization Level Activated other treatment options other comment) Prostate Metastatic Castration- sensitive - 3 ADT ± Novel Androgen- pathway inhibitor (API) (abiraterone, analutamide Could get ADT alone but combo has OS Avoid docetaxel All oral / 3 months injection therapy	<u>subsite</u>	group	Level		Option for use	Management Options	<u>(Reasonable delays,</u>
Prostate Metastatic 3 ADT ± Novel Androgen- pathway inhibitor (API) Could get ADT alone but Avoid docetaxel All oral / 3 months injection therapy Image: Sensitive - Instruction <					<u>when</u>	when Prioritization	other treatment options,
Image: Prostate Metastatic 3 ADT ± Novel Androgen- pathway inhibitor (API) Could get ADT alone but Avoid docetaxel All oral / 3 months injection therapy Image: Sensitive - Image: Low volume Image: Sensitive - Image: Sen					prioritization	Level Activated	<u>other comment)</u>
Prostate Metastatic 3 ADT ± Novel Androgen- pathway inhibitor (API) Could get ADT alone but Avoid docetaxel All oral / 3 months injection therapy sensitive - Low volume abiraterone, analutamide combo has OS combo has OS consider using 6 months					level activated		
Castration- sensitive - pathway inhibitor (API) alone but injection therapy Index sensitive - (abiraterone, combo has OS Consider using 6 month	Prostate	Metastatic	3	ADT ± Novel Androgen-	Could get ADT	Avoid docetaxel	All oral / 3 months
sensitive - (abiraterone, combo has OS		Castration-		pathway inhibitor (API)	alone but		injection therapy
Low-volume analytamide benefit Consider using 6 month		sensitive -		(abiraterone,	combo has OS		
low-volume apalutamide, benefit Consider using o month		Low-volume		apalutamide,	benefit		Consider using 6 month
disease enzalutamide) – access depot LHRH, or		disease		enzalutamide) – access			depot LHRH, or
through patient orchiectomy.				through patient			orchiectomy.
assistance programs.				assistance programs.			
Mitigation not really							Mitigation not really
needed							needed
Prostate Metastatic 3 ADT + APT: Could get ADT Avoid docetaxel All oral / 3 months	Prostate	Metastatic	3	ADT + API:	Could get AD I	Avoid docetaxel	All oral / 3 months
Castration- (abiraterone, alone but injection therapy		Castration-		(abiraterone,	alone but		injection therapy
sensitive - apalutamide, combo nas US		sensitive -		apalutamide,	compo nas OS		Consider using Creenth
disease diseas		High-volume		through notiont	benent		
disease through patient depot LHRH, or		disease		through patient			depol LHKH, or
assistance programs.				assistance programs.			orchiectomy.
Mitigation not really							Mitigation not really
needed							needed
							necueu



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	Current Management	Management Option for use when prioritization	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
				level activated		
Prostate	Non- metastatic (m0) castration- resistant prostate cancer - PSA DT ≤10 months	3	ADT + API: (apalutamide, enzalutamide, darolutamide) – access through patient assistance programs	Could get ADT alone but combo has OS benefit	Avoid docetaxel	All oral / 3 months injection therapy Consider using 6 month depot LHRH, or orchiectomy. Mitigation not really needed
Prostate	Metastatic castration- resistant prostate cancer (mCRPC) Post ADT alone	3	ADT + API: (abiraterone, apalutamide, enzalutamide) or ADT plus docetaxel		Avoid docetaxel	All oral / 3 months injection therapy Consider using 6 month depot LHRH, or orchiectomy. Mitigation not really needed
Prostate	Metastatic castration- resistant	3	ADT + API: (abiraterone, apalutamide,			All oral / 3 months injection therapy



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	<u>Current Management</u>	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
	prostate cancer (mCRPC) Post ADT + docetaxel		enzalutamide)			Consider using 6 month depot LHRH, or orchiectomy. Mitigation not really needed
Prostate	Metastatic castration- resistant prostate cancer (mCRPC) Post ADT + API (apalutamide, darolutamide or enzalutamide)	3	ADT + docetaxel Or ADT + Radium-223	Defer treatment until clinically significant radiographic progression or symptomatic progression on previous line of therapy OR ADT + Enzalutamide: Only if post abiraterone	Avoid docetaxel Defer Radium-223 until clinical progression (pain). Avoid if visceral metastasis, or LN metastasis (especially if > 3 cm) If docetaxel used: Strongly consider G-CSF support with docetaxel to avoid FN and hospitalization / ER visit. AND/OR	Enzalutamide oral but currently not funded after abiraterone Consider using 6 month depot LHRH, or orchiectomy.



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Current Management	Management Option for use when	Specifics Regarding Management Options when Prioritization	<u>Comments:</u> (<u>Reasonable delays,</u> other treatment options,
				prioritization level activated	Level Activated	other comment)
				OR ADT + Radium- 223	Consider starting at reduced dose docetaxel, especially for elderly population (e.g. 60 mg/m ²)	
					Dexamethasone alone (0.5-2mg PO daily) may induce a PSA response and be a successful mitigation strategy after progression on 1 st line therapy.	
					Abiraterone may be continued beyond progression with dexamethasone	
Prostate	Metastatic castration- resistant prostate	3	ADT + Cabazitaxel OR	Defer cabazitaxel treatment until clinically	Strongly consider G-CSF support to avoid FN and hospitalization/ER visit.	Cabazitaxel not currently funded after abiraterone/enzalutamide
	cancer (mCRPC) Post ADT + API		ADT + Radium-223	significant radiographic progression_or	Use Cabazitaxel 20 mg/m ² for elderly population or ECOG > 1	Consider using 6 month depot LHRH, or orchiectomy.



<u>Tumour</u>	<u>Subsite/risk</u>	Prioritization	Current Management	<u>Management</u>	Specifics Regarding	Comments:
<u>subsite</u>	group	Level		Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization	other treatment options,
				<u>prioritization</u>	Level Activated	<u>other comment)</u>
				level activated		
	(apalutamide,			symptomatic	or other risk factors for	
	darolutamide			progression on	neutropenia	
	or			previous line of		
	enzalutamide)			therapy.		
	and post				Given the marginal	
	docetaxel			Radium-223:	clinical benefit	
				Defer until	observed with Radium-	
				clinical	223 for most patients	
				progression	and risks of	
				(pain).	myelosuppression,	
				Avoid if visceral	consider deferring	
				metastasis, or	Radium-223 treatment	
				LN metastasis	or offer palliative care	
				(especially if > 3		
				cm).		
Testis	Clinical stage I	2	Active surveillance	Use active	Avoid adjuvant therapy	No difference in overall
	non-		OR	surveillance		outcomes between active
	seminoma		Adjuvant chemotherapy		Utilizing virtual care	surveillance and adjuvant
	and		OR		pathways and	treatment options
	seminoma –		Adjuvant RPLND for		outpatient laboratory	
	adjuvant		non-seminoma		testing / imaging in	
	therapy		OR		local facilities to	
			Adjuvant RT for		minimize hospital	
			seminoma		contact.	
Testis	Treatment for	2	Chemotherapy with BEP	Selected	Use of treatment	All patients should be
	IGCCCG good-		x 3 or EP x 4	patients may	options which are	discussed with an expert



<u>Tumour</u>	<u>Subsite/risk</u>	Prioritization	Current Management	<u>Management</u>	Specifics Regarding	Comments:
<u>subsite</u>	group	<u>Level</u>		Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization	other treatment options,
				<u>prioritization</u>	Level Activated	<u>other comment)</u>
				level activated		
	risk,			tolerate a	available	center to determine
	disseminated		RT for stage IIA	modest	e.g. if RT available but	treatment urgency.
	GCT		seminoma	treatment delay	not chemotherapy use	
				(e.g.	RT for stage IIA	Treatment delays should
			Surgery for stage IIA	retroperitoneal	seminoma	be discussed with an
			non-seminoma	LN < 3 cm, slow		expert center or tumor
				growing, marker		board.
				negative)		
				Use BEP x3 in		
				order to keep		
				chemotherapy		
				duration as		
				short as		
				possible		
				Treatment		
				should be given		
				with G-CSF		
				support and		
				prophylactic		
				antimicrobial		
				therapy should		
				be considered		
				in order to		
				minimize risk of		



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Current Management	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
Testis	Treatment for IGCCCG intermediate or poor-risk, disseminated GCT	2	Chemotherapy with BEP x 4 or VIP x 4	FN Use VIP x 4 cycles, unless contraindication to VIP in which case BEP x 4 is reasonable.	Treatment should be given with G-CSF support and prophylactic antimicrobial therapy should be considered in order to minimize risk of FN.	All patients should be discussed with an expert center to determine optimal treatment management. It is not an option to delay treatment Delays in post- chemotherapy surgical management should be kept to a minimum if possible.
Bladder	Neoadjuvant chemotherapy cT2 cN0/+ M0 localized bladder cancer	4	Neoadjuvant chemotherapy with cisplatin/gemcitabine x 4 cycles	No alternative	Treatment should be given with G-CSF support and prophylactic antimicrobial therapy should be considered in order to minimize risk of FN.	Delays should be avoided as much as possible
Bladder	Adjuvant chemotherapy pT2 N0/+ M0	4	Adjuvant chemotherapy with cisplatin/gemcitabine x	No alternative	Treatment should be given with G-CSF support and	Delays should be avoided as much as possible



Tumour	Subsite/risk	Prioritization	Current Management	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level		Option for use	Management Options	<u>(Reasonable delays,</u>
				when	when Prioritization	other treatment options,
				prioritization	Level Activated	<u>other comment)</u>
				level activated		
	localized		4 cycles		prophylactic	
	bladder				antimicrobial therapy	
	cancer				should be considered in	
					order to minimize risk	
					of FN.	
Bladder	Metastatic	3	cisplatin/gemcitabine x	No alternative	Treatment should be	Pembrolizumab 1 st line
	disease – 1 st		4 cycles		given with G-CSF	not funded
	line therapy			Utilize	support and	
				carboplatin for	prophylactic	
				cisplatin-	antimicrobial therapy	
				ineligible	should be considered in	
					order to minimize risk	
					of FN.	
Bladder	Metastatic	4 (unless	Pembrolizumab (Access	Utilize	Chemotherapy should	Pembrolizumab 2 nd line
	disease -2 nd	pembrolizumab	program)	pembrolizumab	be given with G-CSF	not funded
	line therapy	is available)		for 2 nd line	support and	
			Chemotherapy with	therapy	prophylactic	
			paclitaxel or docetaxel		antimicrobial therapy	
					should be considered in	
					order to minimize risk	
					of FN.	
RCC	Metastatic	4	Sunitinib	Delaytreatment	Use	Sunitinib and pazopanib
	disease -		OR	if metastatic	pembrolizumab/axitinib	are oral therapies hence
	Good risk		Pazopanib	volume low	access program if	mitigation of limited use
			OR		possible	
			Pembrolizumab/Axitinib			



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	<u>Current Management</u>	<u>Management</u> <u>Option for use</u> <u>when</u> prioritization	Specifics Regarding Management Options when Prioritization Level Activated	Comments: (Reasonable delays, other treatment options, other comment)
				level activated		
			(Access program)			
RCC	Metastatic disease - Intermediate risk	3	Nivolumab/Ipilimumab OR Pembrolizumab/Axitinib (Access program)	Use sunitinib or pazopanib or cabozantinib to avoid infusion clinic (see comments)	Delay treatment if metastatic volume is low	If sunitinib or pazopanib is used as 1 st line therapy then Nivolumab/Ipilimumab should be funded as 2 nd line therapy. Cabozantinib not currently funded as 1 st line therapy. Both Nivolumab/Ipilimumab and Pembrolizumab/axitinib have significant and meaningful OS benefit.
RCC	Metastatic disease – Poor risk	3	Nivolumab/Ipilimumab OR Pembrolizumab/Axitinib (Access program)	Use sunitinib or pazopanib or cabozantinib to avoid infusion clinic (see comments)		If sunitinib or pazopanib is used as 1 st line therapy then Nivolumab/Ipilimumab should be funded for 2 nd line therapy. Both



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	<u>Current Management</u>	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
						Nivolumab/Ipilimumab and Pembrolizumab/Axitinib have significant and meaningful OS benefit.
						Cabozantinib currently not funded as a 1 st line therapy.

*Abbreviations: API: novel androgen-pathway inhibitor; ADT: androgen deprivation therapy; FN: febrile neutropenia; IGCCCG: International Germ Cell Cancer Collaborative Group

5.2 Radiation Therapy

Tumour	Subsite/risk group	Prioritization	Preferred	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Fractionation and	Option for	Management	(Reasonable delays,
			Technique if RT used	Deferral of RT	Options when	other treatment
				During	Prioritization Level	options, other
				<u>Pandemic</u>	Activated	<u>comment)</u>
Prostate	Palliative/Bleeding	2	8Gy/1 - 20Gy/5	Supportive	Prostate	
				care		
Prostate	Low-tier	4	60 Gy/20#	Delay RT 3-6	Use 3 to 6 months of	A delay of 3 to 6 months


<u>Tumour</u>	Subsite/risk group	Prioritization	Preferred	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Fractionation and	Option for	Management	<u>(Reasonable delays,</u>
			<u>Technique if RT used</u>	Deferral of RT	Options when	other treatment
				During	Prioritization Level	options, other
				<u>Pandemic</u>	Activated	<u>comment)</u>
	Intermediate risk: <t2c 10-<br="" and="" ipsa="">15 with GS=6 OR GS=7 with iPSA<10</t2c>		CHHip regimen OR 36.25-40 Gy/ 5 fraction SBRT (1 fraction per week)	months	neoadjuvant ADT if appropriate. Avoid use of fiducial markers or SpaceOar. Avoid use of contrast for CT SIM (if appropriate).	is an option unlikely to be associated with a high risk of adverse outcome. This is the preferred option. ADT may not be necessary in these patients and there should be a consideration of the risks.
Prostate	High-tier Intermediate risk: <t2c and:<br="">iPSA 15-20 and GS=6 OR iPSA 10-20 and GS7</t2c>	4	60 Gy/20# CHHip regimen OR 36.25-40 Gy/ 5 fraction SBRT (1 fraction per week)	Delay RT 3-6 months	Use 3 to 9 months of neoadjuvant ADT if appropriate. Avoid use of fiducial markers or SpaceOar. Avoid use of contrast for CT SIM (if appropriate).	A delay of 3 to 6 months is an option unlikely to be associated with a high risk of adverse outcome.
Prostate	High Risk: >T3a iPSA >20	4	60 Gy/20# CHHip regimen OR	3-9 months Neoadjuvant ADT	Use 3 to 9 months of neoadjuvant ADT if appropriate.	If patient is responding to ADT, the preference is for neoadjuvant ADT to



Tumour	Subsite/risk group	Prioritization	Preferred	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Fractionation and	Option for	Management	<u>(Reasonable delays,</u>
			Technique if RT used	Deferral of RT	Options when	other treatment
				During	Prioritization Level	options, other
				Pandemic	Activated	<u>comment)</u>
	OR		36.25-40 Gy/ 5 fraction			be continued longer and
	GS 8-10		SBRT (1 fraction per		Avoid use of fiducial	RT delayed.
			week)		markers or SpaceOar.	
			if treating the pelvis,			If RT must be delivered,
			may use SIB 44Gy/20,		Avoid use of contrast	use hypo-fractionated
			or standard		for CT SIM (if	regimens to reduce
			fractionations. (No		appropriate).	visits.
			SBRT if treating			
			LNs/pelvis).			
Prostate	Metastatic M1	4	55 Gy/20#	All patients		All patients will be on
	(low volume)		OR	will be on ADT		ADT and RT can be
			36 Gy/ 6 fraction SBRT	and RT can be		delayed 3-6 months
			(STAMPEDE)	delayed 3-6		
				months		
Prostate	Adjuvant	4	52.5Gy/20 (RADICALS)	Delay 3-6	3-6 months	Majority of patients can
			62.5Gy/25	months	neoadjuvant ADT, if	be delayed safely for 3-6
			(NRG GU003)		appropriate	months.
						If appropriate for risk
						group, ADT can be used
						and RT delayed.
Prostate	Salvage	4	52.5Gy/20 (RADICALS)	Delay 3-6	3-6 months	Majority of patients can
			62.5Gy/25	months	neoadjuvant ADT, if	be delayed sately for 3-6
			(NKG GUUU3)		appropriate	months. This is the
						preferred strategy.



<u>Tumour</u>	Subsite/risk group	Prioritization	Preferred	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Fractionation and	Option for	<u>Management</u>	<u>(Reasonable delays,</u>
			<u>Technique if RT used</u>	Deferral of RT	Options when	other treatment
				<u>During</u>	Prioritization Level	options, other
				<u>Pandemic</u>	<u>Activated</u>	<u>comment)</u>
						If appropriate for risk
						group, ADT can be used
						and RT delayed
						Many BC Cancer ROs not
						comfortable with hypo
						fractionated regimens in
						the post-op setting:
						standard fractionation
						33-35#, or 28 (Kelowna)
Prostate	Low risk:	5	N/A	N/A	Active surveillance	Active surveillance is
	<t2a 10<="" <="" and="" ipsa="" td=""><td></td><td></td><td></td><td></td><td>standard of care and</td></t2a>					standard of care and
	and GS<6					other treatments should
						not be offered during
						the pandemic
Bladder	Palliative/Bleeding	2	8Gy/1 - 20Gy/5	Supportive		
				care		
Bladder	MIBCT2 to T3a,	3	Chemo-RT	Consider		Where pelvic nodal Rt is
	NOMO (eligible for		55Gy/20 (BC2001) to	neoadjuvant		indicated, 2 Gy/#
	bladder		bladder only.	chemotherapy		regimen preferred.
	preservation)			(2-4 cycles of		
				Gem/Cis)		



- 1) At physician discretion, adopt telephone or video-conference for consults and follow-up, deferring examination to next visit:
 - a. During the pandemic, consider doing all initial GU RO consultations by virtual health (Zoom, Skype, FaceTime are approved by PHSA) or on telephone. Differ physical examinations/consents to next visit, or on the day of CT SIM if treating with RT (the longer consultation, including prognosis and side effects discussion, can be done on the phone prior, to minimize length of visit on the day of CT SIM, the total number of visits to the hospital for the patient, as well as time spent with the RO in a confined room).
 - b. Consider doing all GU follow-up visits by virtual health during the pandemic, and defer examination to next visit.
- 2) Minimize use of PSA testing (reduce lab visits).
- 3) Consider deferring low and intermediate risk prostate cancer consults by 3 months.
- 4) ADT: consider 6 month depot.
- 5) Avoid use of fiducial markers or Space OAR.
- 6) Avoid use of contrast for CT sim (if appropriate).

6.0 Gynecological Cancers

6.1 Systemic Therapy

<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk group</u>	Prioritization Level	<u>Current</u> Management	Management Option for use when prioritization	Specifics Regarding Management Options when Prioritization Level Activated	Comments: (Reasonable delays, other treatment options, other
					Activated	<u>comment)</u>
Gyne	Hypercalcemia	1	SCHYPCAL	SCHYPCAL		
Gyne	Bowel Obstruction	1	Assessment for 1) Surgical	If surgery not available –	Dexamethasone, octreotide, venting G-	



<u>Tumour</u>	Subsite/risk group	Prioritization	<u>Current</u>	<u>Management</u>	Specifics Regarding	Comments:
<u>subsite</u>		<u>Level</u>	<u>Management</u>	Option for use	Management Options when	(Reasonable
				<u>wnen</u> prioritization	Options when Drightization Lovel	delays, other
				prioritization lovel activated	Activated	ontions other
				ieveractivated	Activated	comment)
			intervention	symptom	tube	<u>commentanj</u>
			2) Possibly	management		
			stenting of distal	management		
			sigmoid/rectal			
			mass			
Gyne -	Metastatic Uterine	2	GOSAD	Consider oral anti-	RT for palliation.	
Sarcoma	Sarcomas		GOSADG	estrogen therapy		
				in ER+ disease.		
Gyne –	Adjuvant	3	GOSMCCRT or	RT		
Small cell			GOSCPERT			
cancers						
Gyne –	Metastatic	3	GOSMCCRT or	Oral etoposide and	Gyne – Small cell	Metastatic
Small cell			GOSCPERT	RT	cancers	
cancers		2				
Gyne -	Locally advanced	2	Concurrent	RTalone		If surgery also not
Cervix			Спетно-кт			available, May
	All histotypes					stage IB1
	(nossibly including					Stage IDT
	stage IB1)					
Gyne -	Locally advanced	4	Adenocarcinomas	Omit adjuvant		The benefit of
, Cervix	, cervical cancer		currently receive	systemic therapy		adjuvant therapy
	(stage IB2 to IVA)		adjuvant	for cervical		in adenocarcinoma
	All histotypes		GOCXAJCAT X3	adenocarcinomas		of the cervix is
			cycles.			controversial.



Tumour	Subsite/risk group	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	<u>Management</u>	<u>(Reasonable</u>
				<u>when</u>	Options when	<u>delays, other</u>
				prioritization	Prioritization Level	treatment
				level activated	<u>Activated</u>	options, other
						<u>comment)</u>
Gyne –	Metastatic cervical	3	Symptomatic,	RT for palliation	Best supportive care	
Cervix	cancer		GOOCAT or			
			GOOCATB			
			If asymptomatic,			
			observe.			
Gyne - GCT	Ovarian Germ cell	2	GOOVBEP	Mitigating	Oral etoposide	Use mitigating
	cancers		GOOVEP	therapies such as		strategies with
				surgery or RT		goal of initiating
						delayed systemic
						therapy.
Gyne –GTN	Gestational	2	GOTDLR	Uterine evacuation		Use mitigating
	Trophoblastic			or hysterectomy		strategies with
	Neoplasm					goal of initiating
	No metastases and					delayed systemic
	HCG <10,000					therapy.
Gyne - GTN	Gestational	2	GOTDLR	Hysterectomy		Use mitigating
	Trophoblastic					strategies with
	Neoplasm					goal of initiating
	No metastases and					delayed systemic
	HCG >10,000					therapy.
Gyne - GTN	Gestational	2	GOTDLR	No known		Use mitigating
	Trophoblastic			alternative. Could		strategies with
	Neoplasm			try surgery or RT		goal of initiating
	Metastases (FIGO score			on case by case		delayed systemic



<u>Tumour</u>	Subsite/risk group	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management	<u>(Reasonable</u>
				<u>when</u>	Options when	<u>delays, other</u>
				<u>prioritization</u>	Prioritization Level	<u>treatment</u>
				level activated	Activated	options, other
						<u>comment)</u>
	<7)			basis.		therapy.
Gyne - GTN	Gestational	2	GOTDEMA (+/-CO)	No known		Use mitigating
	Trophoblastic			alternative. Could		strategies with
	Neoplasm			try surgery or RT		goal of initiating
	Metastases (FIGO score			on case by case		delayed systemic
	≥7)			basis.		therapy.
Gyne – EOC	Early Stage Ovarian	4	GOOVCATM	In some subtypes		Absolute benefit
	cancer (adjuvant)		For 3-6 cycles	can consider RT		of adjuvant
				(e.g. clear cell,		therapy for early
	Stage IB-IIA			endometrioid and		stage ovarian
				mucinous		cancer is <10%
				carcinomas)		improvement in
						OS.
Gyne - EOC	Advanced stage high	2	GOOVCATM	Surgery (if still	Oral	Treatment delays
	grade ovarian cancer		GOOVCATX	possible) in	cyclophosphamide	are reasonable to
			GOOVCATR	selected cases	(GOOVCYCPO) or oral	consider.
	Newly diagnosed		GOOVCIS		etoposide	
			GOOVDDCAT		(GOOVETO).	If limited access to
			GOOVFPLDC			chemotherapy still
			GOOVIPPC		Oral anti-estrogen	available, can give
			GOOVCAD		therapy in ER (+)	treatment on a
			GOOVCAG		disease could be	less frequent
			UGOOVCATB		considered if no other	bases (e.g. every 6
			GOOVCAR		options (GOOVAI or	-8 weeks), or
					GOOVTAM).	reduce to single



Tumour	Subsite/risk group	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management	(Reasonable
				<u>when</u>	Options when	<u>delays, other</u>
				prioritization	Prioritization Level	<u>treatment</u>
				level activated	<u>Activated</u>	options, other
						<u>comment)</u>
						agent use.
						Paracentesis,
						indwelling
						peritoneal and
						pleural drains.
						End of life
						planning if
						appropriate.
Gyne - EOC	Platinum-sensitive	2	Asymptomatic			Treatment delays
	recurrent ovarian		patients should be			or longer
	cancer – Symptomatic		offered watchful			treatment cycles
	Patient		waiting.			are reasonable to
						consider to reduce
			Symptomatic			resource impact.
			patients are			
			offered therapy:			
			GOOVCATM	Oral	Surgery if still	Paracentesis,
			GOOVCATX	cyclophosphamide	possible in selected	indwelling
			GOOVCATR	(GOOVCYCPO) or	cases, and palliative	peritoneal and
			GOOVCIS	oral etoposide	RT.	pleural drains,
			GOOVDDCAT	(GOOVETO).		analgesia and end
			GOOVFPLDC			of life planning.
			GOOVIPPC	Oral anti-estrogen		



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk group</u>	Prioritization Level	<u>Current</u> <u>Management</u>	Management Option for use when prioritization level activated	Specifics Regarding <u>Management</u> <u>Options when</u> <u>Prioritization Level</u> <u>Activated</u>	<u>Comments:</u> (<u>Reasonable</u> <u>delays, other</u> <u>treatment</u> <u>options, other</u> <u>comment</u>)
			GOOVCAD GOOVCAG UGOOVCATB	therapy in ER (+) disease could be considered if no other options (GOOVAI or GOOVTAM).		
Gyne – EOC BRCA	BRCA mutated ovarian cancer – Maintenance therapy	2	Oral maintenance treatment with a PARP inhibitor UGOOVOLAPM	None		
Gyne – EOC	Platinum-resistant ovarian cancer	3	If asymptomatic – watchful waiting. If symptomatic: GOOVGEM, GOOVPLD, GOOVETO, GOOVTAX3 GOOVTOP GOOVVIN GOOVVIN GOOVDOC All of the above + Bevacizumab	If symptomatic: Oral cyclophosphamide (GOOVCYCPO) or oral etoposide (GOOVETO). Could consider oral anti-estrogen therapy in ER (+)	Best supportive care	Paracentesis, indwelling peritoneal and pleural drains, analgesia and end of life planning.



Tumour	Subsite/risk group	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>		<u>Level</u>	<u>Management</u>	Option for use	Management	(Reasonable
				<u>wnen</u> prioritization	Options when Drightization Lovel	delays, other
				prioritization lovel activated	Activated	ontions other
				<u>level activated</u>	Activateu	comment)
			(UGOOVBEV -G	disease (GOOVAL		
			LDPV)	or GOOVTAM).		
			, ., .,			
Gyne – EOC	Platinum-resistant	5	If asymptomatic –	If symptomatic -		End of life
	ovarian cancer -		watchful waiting.	best supportive		planning.
				care.		
	> 2 lines of non-		1			
	platinum therapy					
Gyne -	Endometrial cancer	3	GOOENDCAT for	RT for local	For ER positive cases,	If less than 12
Endo	Adjuvant therapy stage		up to 6 cycles and	benefit	could consider	weeks from
	m-rv (an histotypes)		КІ.	benent.	aujuvani anti-	surgical uate,
					(GOENDAL or	chemotherany
					GOENDH)	could be
						considered.
Gyne –	Metastatic Endometrial	3	Asymptomatic	In ER + consider	Best supportive care.	
Endo	Cancer		patients should be	oral anti-estrogen		
			offered	therapy.		
			observation only.			
			If symptomatic:			
			GOENDCAT			
			GOENDCAD			
			GOENDD			



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk group</u>	Prioritization Level	<u>Current</u> <u>Management</u>	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other <u>treatment</u> options, other
Gyne - Endo	Endometrial cancer Adjuvant therapy Stage I-II <u>non-serous</u> <u>histology</u>	4	GOOENDCAT and adjuvant RT.	Omit adjuvant chemotherapy.	Consider RT only, for local control benefit.	Benefits of adjuvant systemic therapy in the setting of non- serous early stage endometrial cancers are poorly defined and felt to be low.
Gyne – Endo	Metastatic Endometrial Cancer > 2 nd line therapy	5	No standard.	In ER + consider oral anti-estrogen therapy.	Best supportive care.	End of life planning.

Abbreviations: GCT: germ cell tumours; GTN: gestational trophoblastic neoplasm; EOC: epithelial ovarian carcinoma

6.2 Radiation Therapy

<u>Tumour</u>	Subsite/risk	Prioritization	<u>Preferred</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Fractionation and	Option for	Management Options	(Reasonable delays,
			Technique if RT used	Deferral of RT	when Prioritization	other treatment
				During Pandemic	Level Activated	options, other
						<u>comment)</u>



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	<u>Preferred</u> <u>Fractionation and</u> <u>Technique if RT used</u>	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
Gyne	Endometrium adjuvant: Endometrioid 1BG1-2, A1G3	4	Vault brachytherapy	Observation only	Defer RT up to 4 months post-surgery	
Gyne	Endometrium adjuvant: Endometrioid 1BG3+	4	45 Gy/25 #	Adjuvant chemotherapy for 6 cycles and then RT	Defer RT up to 4 months post-surgery if no chemotherapy Chemotherapy alone	If RT is delayed more than 4 months post- surgery, plan for FU treatment at recurrence
Gyne	Endometrium adjuvant: Serous/clear cell 1A	4	45 Gy/25# or vault brachytherapy	Adjuvant chemotherapy for 6 cycles then RT	Chemotherapy alone	
Gyne	Endometrium adjuvant: Serous/clear cell 1B+	4	45 Gy/25#	Adjuvant chemotherapy for 6 cycles then RT	Defer RT up to 4 months post-surgery if no chemotherapy Chemotherapy alone	If RT is delayed more than 4 month post- surgery, plan for FU at treatment at recurrence
Gyne	Cervix – curative	2	45 Gy /25# +brachytherapy	Surgery may be an option for selected cases if feasible	Treat in another centre Consider hypofractionation	
Gyne	Cervix – adjuvant	3	45 Gy/25#	Adjuvant chemotherapy and delay RT	Delay RT up to 4 months? Consider hypofractionation	



<u>Tumour</u>	<u>Subsite/risk</u>	Prioritization	<u>Preferred</u>	<u>Management</u>	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Fractionation and	Option for	Management Options	<u>(Reasonable delays,</u>
			<u>Technique if RT used</u>	Deferral of RT	when Prioritization	<u>other treatment</u>
				During Pandemic	Level Activated	options, other
						<u>comment)</u>
Gyne	Vulva – curative	3	63 Gy/35#	No known	Neo-adjuvant	
			59.3 Gy/33# with	alternative	chemotherapy?	
			chemo			
Gyne	Vulva – adjuvant	3	45 Gy/25# + boost	No known		
				alternative if		
				surgery is		
				incomplete		
Gyne	Ovary – adjuvant	4	45 Gy/25#	Defer RT up to 4	Adjuvant chemotherapy	If RT is delayed more
				months post-		than 4 months post-
				surgery		surgery, plan for FU
						and treatment at
						recurrence



Provincial Health Services Authority 7.0 Head & Neck Cancers

7.1 Systemic Therapy

Tumour	Subsite/risk	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Management	Option for use	Management Options	(Reasonable delays,
				<u>when</u>	when Prioritization	other treatment
				prioritization	Level Activated	options, other
				level activated		comment)
H&N	HNSCC (oral	2	HNLADCF-		Consider immediate	
	cavity,		cisplatin, docetaxel		initiation of concurrent	
	oropharynx p16		+/- 5FU		Chemo-RT	
	positive and					
	negative, larynx,					
	hypopharynx,					
	PU) -					
	neoadjuvant					
	HNSCC (oral	2	Concurrent Chemo-		Consider altered	The choice of
	cavity,		RT with cisplatin		fractionation	treatment schedule
	oropharynx p16		q3wk HNLAPRT or		radiotherapy	will depend on local
	positive and		weekly HNNLAPRT			available resources
	negative, larynx,					(host hospital vs BC
	hypopharynx,					Cancer ward) and
	PU) - locally					risk.
	advanced					*Consider
						prioritization Level 1
						if airway
						compromise
	HNSCC (oral	3 –	1 st line: platinum		1 st line:	*Consider
	cavity,	symptomatic	doublet or single		Favor IV chemotherapy	prioritization Level 2
	oropharynx p16	(asymptomatic	agent platinum		on q3w schedule over	if airway
	positive and	patients with			weekly x 6 cycles. If	compromise



<u>Tumour</u>	<u>Subsite/risk</u>	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization	other treatment
				<u>prioritization</u>	Level Activated	options, other
				level activated		<u>comment)</u>
	negative, larynx,	impending	2 nd /3 rd line:		stable at treatment	
	hypopharynx,	compromise	nivolumab,		cessation, option to re-	
	PU) – metastatic	of local	capecitabine, 5 FU,		treat at progression.	
		structures)	docetaxel,			
			methotrexate		2 nd line:	
		4 -			Nivolumab q4w.	
		asymptomatic			Favor oral capecitabine	
					over 5FU.	
					Favor IV chemotherapy	
					on q3w schedule over	
					weekly.	
					Treatment for 6 cycles	
					and if stable at	
					treatment cessation,	
					option to re-treat at	
					progression.	
	NPC -	2	HNNLAPG –		Consider immediate	
	neoadjuvant		platinum,		initiation of concurrent	
			gemcitabine		Chemo-RT	
	NPC – locally	2	Concurrent Chemo-		Consider altered	Treatment could be
	advanced		RT with weekly		fractionation	offered on a q3w
			cisplatin		radiotherapy	schedule, the choice
			HNNLAPRT			of treatment
						schedule will
						depend on local



Tumour	Subsite/risk	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization	other treatment
				prioritization	Level Activated	options, other
				level activated		<u>comment)</u>
						available resources
						and risk
						*Consider
						prioritization Level 1
						if airway
						compromise
	NPC - metastatic	3 -	1 st line: platinum		1 st line:	*Consider
		symptomatic	doublet		Favor IV chemotherapy	prioritization Level 2
		(asymptomatic			on q3w schedule over	if airway
		patients with	2 nd /3 rd line: single		weekly x 6 cycles. If	compromise
		impending	agent platinum,		stable at treatment	
		compromise	5FU, gemcitabine,		cessation, option to re-	
		of local	capecitabine		treat at progression.	
		structures)				
					2 nd line:	
		4 –			Favor oral capecitabine	
		asymptomatic			over 5FU.	
					Favor IV chemotherapy	
					on q3w schedule over	
					weekly (omit day 8).	
					Treatment for 6 cycles	
					and if stable at	
					treatment cessation,	
					option to re-treat at	
					progression.	



<u>Tumour</u>	Subsite/risk	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	Level	Management	Option for use	Management Options	(Reasonable delays,
				<u>when</u>	when Prioritization	other treatment
				<u>prioritization</u>	Level Activated	options, other
				level activated		<u>comment)</u>
	Salivary -	3-	Platinum based		Favor IV chemotherapy	Asymptomatic
	metastatic	symptomatic	chemotherapy or		on q3w schedule over	patients are not
			FAC		weekly x 6 cycles.	offered treatment
					If stable at treatment	
					cessation, option to re-	
					treat at progression	
	RAI refractory	3	Lenvatinib PO daily			Asymptomatic
	thyroid –	Symptomatic				patients are not
	metastatic	(includes				offered treatment
		asymptomatic				
		patients with				
		impending				
		compromise				
		of local				
		structures)				
	Medullary	3	Vandetanib PO			Asymptomatic
	thyroid -	Symptomatic	daily			patients are not
	metastatic	(includes				offered treatment
		asymptomatic				
		patients with				
		impending				
		compromise				
		of local				
		structures)				
	Anaplastic	3 –				



Tumour	Subsite/risk	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>	group	<u>Level</u>	<u>Management</u>	<u>Option for use</u> <u>when</u> prioritization	<u>Management Options</u> when Prioritization Level Activated	<u>(Reasonable delays, other treatment options, other </u>
				level activated		<u>comment)</u>
	thyroid -	Symptomatic				
	metastatic	4 -				
		Asymptomatic				

Abbreviations: HNSCC: head and neck squamous cell carcinoma; NPC: nasopharyngeal carcinoma

7.2 Radiation Therapy

Guiding Principles

- Due to the possibility of decreasing resources in the immediate future, please consider initiating shorter fractionation schemes for all radiotherapy regimens
- Elderly patients and those with medical comorbidities are at higher risk of serious COVID-19 infection
- Individual cases can be reviewed at our weekly multi-disciplinary Provincial H&N (Mondays, 11:00 to 12:00) and Thyroid (Thursdays, 8:00 to 9:15) Tumour Conferences

<u>Tumour subsite</u>	<u>Subsite/risk</u>	Prioritization	Preferred	Management	Specifics Regarding	Comments:
	group	Level	Fractionation and	Option for	Management	(Reasonable
			Technique if RT used	Deferral of RT	Options when	delays, other
				During	Prioritization Level	treatment
				<u>Pandemic</u>	Activated	options, other
						<u>comment)</u>
Squamous cell	Curative intent	2	70 Gy in 35#	Delay in RT is	Surgical resection	Any delay in



<u>Tu</u>	<u>mour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	<u>Preferred</u> Fractionation and	<u>Management</u> Option for	<u>Specifics Regarding</u> Management	<u>Comments:</u> (Reasonable
				Technique if RT used	Deferral of RT	Options when	delays, other
					During	Prioritization Level	treatment
					<u>Pandemic</u>	Activated	options, other
							<u>comment)</u>
са	rcinoma:			66 Gy in 30#	not an option;		radiation beyond
•	oral cavity	Early Stage		60 Gy in 25#	Surgical		2-4 weeks
•	oropharynx				resection if		associated with
•	hypopharynx	RT alone			feasible		risk of
•	primary						progression and
	unknown						reduced survival
							outcomes
La	ryngeal	Curative intent	2	50-55 Gy in 20#	Delay in RT not	Surgical resection	Any delay in
ca	rcinoma			63 Gy in 28#	an option;		radiation beyond
		Early stage		60 Gy in 25#	Surgical		2-4 weeks
					resection if		associated with
		RT alone			feasible		risk of
							progression and
							reduced survival
							outcomes
Sq	uamous cell	Curative intent	2	70 Gy in 35# if	Neo-adjuvant	Surgical resection (if	Any delay in
ca	rcinoma:			concurrent with	chemotherapy if	resectable & surgical	radiation beyond
•	oral cavity	Locally		radio-sensitizing	RT to be delayed	treatment available)	2-4 weeks
•	oropharynx	advanced		chemotherapy.			associated with
•	larynx						risk of
•	hypopharynx	RT +/-		If RT alone, may			progression and
•	primary	Chemotherapy		consider other			reduced survival
	unknown			fractionations ie.			outcomes.
				6# per week (with			
				potential resource			Consider RT alone



<u>Tumour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> <u>Level</u>	<u>Preferred</u> <u>Fractionation and</u> <u>Technique if RT used</u>	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During</u> <u>Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other
			and tumour control			<u>comment)</u> for elderly
			implications).			population.
Squamous cell carcinoma	Adjuvant intent Post-operative RT +/- Chemotherapy	3 Positive margin, residual disease, extra-capsular extension	60 Gy in 30# to 66 Gy in 33#. 55 to 60 Gy in 25#.	No	No	Delays in radiotherapy may be associated with risk of progression and reduced survival outcomes
Squamous cell carcinoma	Adjuvant intent Post-operative RT +/- Chemotherapy	4 Close margin, positive lymph nodes, peri- neural invasion, comorbidities, elderly population	60 Gy in 30# to 66 Gy in 33#. 55 to 60 Gy in 25#	No	No	
Nasopharyngeal carcinoma	Curative intent RT +/- Chemotherapy	2	70 Gy in 35# Accelerated fractionation detrimental	Neoadjuvant chemo if need to defer RT	No	Any delay in radiation beyond 2-4 weeks associated with risk of



<u>Tumour subsite</u>	Subsite/risk	Prioritization	Preferred	Management	Specifics Regarding	Comments:
	group	Level	Fractionation and	Option for	Management	(Reasonable
			<u>Technique if RT used</u>	Deferral of RT	Options when	<u>delays, other</u>
				<u>During</u>	Prioritization Level	treatment
				<u>Pandemic</u>	<u>Activated</u>	options, other
						<u>comment)</u>
						progression and
						reduced survival
						outcomes
Salivary gland	Unresectable	2	50-55 Gy in 20#	No	No	Surgery is the
tumours			60 Gy in 25#			primary
	RT alone		70 Gy in 35#			treatment
						modality. Primary
			Palliative:			RT indicated for
			20 to 25 Gy in 5#			unresectable or
			30 Gy in 10#			inoperable
			40 Gy in 15#			patients.
						Chemotherapy
						has a limited role,
						and no evidence
						to support its use
						in neoadjuvant,
						concurrent or
						adjuvant
						regimens.
Salivary gland	Adjuvant intent	3	60 Gy in 30# to 66 Gy	No	No	
tumours			in 33#			
	Post-operative	High grade,	60 Gy in 25#			
		positive margin,				
	RT alone	residual disease,				



<u>Tumour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	<u>Preferred</u> <u>Fractionation and</u> <u>Technique if RT used</u>	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During</u> <u>Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (<u>Reasonable</u> <u>delays, other</u> <u>treatment</u> <u>options, other</u> <u>comment</u>)
		extra-capsular extension				
Salivary gland tumours	Adjuvant intent Post-operative RT alone	4 Low grade, positive margin, residual disease, extra-capsular extension	60 Gy in 30# to 66 Gy in 33# 60 Gy in 25#	No	No	
Salivary gland tumours	Adjuvant intent Post-operative RT alone	5 Low grade, close margin, positive lymph nodes, peri-neural invasion, comorbidities, elderly population	60 Gy in 30# to 66 Gy in 33# 60 Gy in 25#	No	No	
Nasal cavity and paranasal sinuses	Curative intent RT +/-	2	70 Gy in 35# if concurrent with radio-sensitizing	Neo-adjuvant chemotherapy may be	Surgical resection	Consider review at Provincial H&N Conference



<u>Tumour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	<u>Preferred</u> <u>Fractionation and</u> <u>Technique if RT used</u>	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During</u> <u>Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other <u>treatment</u> options, other comment)
	Chemotherapy		chemotherapy If RT alone, may consider other fractionations ie. 6# per week (with potential resource and tumour control implications)	indicated if RT to be delayed		
Nasal cavity and paranasal sinuses	Adjuvant intent Post-operative RT +/- Chemotherapy	3 Positive margin, residual disease, extra-capsular extension	60 Gy in 30# to 66 Gy in 33#. 55 to 60 Gy in 25#.	No	No	Any delay in radiation beyond 2-4 weeks associated with risk of progression and reduced survival outcomes
Nasal cavity and paranasal sinuses	Adjuvant intent Post-operative RT +/- Chemotherapy	4 Close margin, positive lymph nodes, peri- neural invasion, comorbidities,	60 Gy in 30# to 66 Gy in 33#. 55 to 60 Gy in 25#.	No	No	



<u>Tumour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> <u>Level</u>	<u>Preferred</u> <u>Fractionation and</u> <u>Technique if RT used</u>	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During</u> <u>Pandemic</u>	Specifics Regarding <u>Management</u> Options when <u>Prioritization Level</u> <u>Activated</u>	<u>Comments:</u> (<u>Reasonable</u> <u>delays, other</u> <u>treatment</u> <u>options, other</u> <u>comment</u>)
		elderly population				
Thyroid carcinoma Well differentiated	Adjuvant intent Post-operative RT alone	4	60 to 66 Gy in 30 to 33#. 60 Gy in 25#.	Radioactive iodine in select cases	No	Surgery is the primary curative regimen. Cases should be reviewed at Provincial Thyroid Conference to discuss the possibility of delaying RT
Thyroid carcinoma Well differentiated	Adjuvant intent Post-operative RAI	4	30 to 200 mCi In or out-patient	No	No	VC: On hold until end of April SPH: Status pending FVC: Inpatient and out-patient VIC: Status



<u>Tumour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> <u>Level</u>	Preferred Fractionation and Technique if RT used	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During</u> <u>Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other
Modullany	Adjuvant intent	4	60 to 66 Guin 20 to	No		pending CSI: Out-patient only AC: Out-patient only (inpatient @ FVC) CN: Status pending, inpatient @ VC
Medullary thyroid carcinoma	Adjuvant intent Post-operative RT alone	4	60 to 66 Gy in 30 to 33# 60 Gy in 25#	No	No	Cases should be reviewed at Provincial Thyroid Conference
Anaplastic thyroid carcinoma	RT +/- Chemotherapy	1	60 Gy in 25# 70 Gy in 35# Versus palliative regimens	Delay in RT not an option. Surgical resection if feasible	Surgical resection followed by RT+/- Chemotherapy	Multi-modality treatment including surgery, is required for curative intent regimens.



<u>Tumour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> <u>Level</u>	<u>Preferred</u> <u>Fractionation and</u> <u>Technique if RT used</u>	Management Option for Deferral of RT During Pandemic	Specifics Regarding <u>Management</u> Options when <u>Prioritization Level</u> <u>Activated</u>	<u>Comments:</u> (<u>Reasonable</u> <u>delays, other</u> <u>treatment</u> <u>options, other</u> <u>comment</u>)
						Cases should be reviewed at Provincial Thyroid Conference
Malignant Parathyroid Neoplasms	Primary RT alone	2	60 Gy in 25# 70 Gy in 35# Versus palliative regimens	Delay in RT not an option. Surgical resection if feasible.	Surgical Resection	Cases should be reviewed at Provincial Thyroid Conference
Malignant Parathyroid Neoplasms	Adjuvant intent Post-operative RT alone	3	60 to 66 Gy in 30 to 33# 60 Gy in 25# Versus palliative regimens	No	No	Cases should be reviewed at Provincial Thyroid Conference
Paraganglioma	Malignant Primary RT or Adjuvant intent	2	60 to 70 Gy in 30 to 35# 60 Gy in 25# Versus palliative regimens	Radio- nucleotide therapy Systemic therapy	Surgical resection	Cases should be reviewed at Provincial H&N Conference



<u>Tumour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	<u>Preferred</u> <u>Fractionation and</u> <u>Technique if RT used</u>	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During</u> <u>Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (<u>Reasonable</u> <u>delays, other</u> <u>treatment</u> <u>options, other</u> <u>comment</u>)
Paraganglioma	Non-Malignant Primary RT	3	45 to 50 Gy in 25#	Delay in RT not an option. Surgical resection if feasible.	Surgical resection	Cases should be reviewed at Provincial H&N Conference
Paraganglioma	Non-Malignant Adjuvant intent	4	45 to 50 Gy in 25# or less	No	No	Cases should be reviewed at Provincial H&N Conference
NA	Palliative intent	1 = Bleeding 3, 4 or 5 (see comments)	20 Gy in 5# 30 Gy in 10# 40 Gy in 15# 8 Gy, single or multiple ie. 0, 7, 21 QUAD SHOT (consider 8 Gy single # in place of 14 Gy / 4 # for first cycle)	Palliative chemotherapy if symptomatic	No	Do not deliver palliative radiotherapy unless benefits clearly outweigh current risks, particularly in the elderly population.
NA	Re-irradiation					Consider review at Local or Provincial H&N



<u>Tumour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	<u>Preferred</u> <u>Fractionation and</u> <u>Technique if RT used</u>	Management Option for Deferral of RT During Dandomic	Specifics Regarding Management Options when Prioritization Level	<u>Comments:</u> (Reasonable delays, other <u>treatment</u>
				Pandemic	Activated	<u>comment)</u>
						Conference
	Benign conditions	6				
	Sialorrhea (ALS) Thyroid orbitopathy					

8.0 Lung Cancer

8.1 Systemic Therapy

<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> <u>Level</u>	Current Management	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments: (Reasonable</u> <u>delays, other treatment</u> <u>options, other</u> <u>comment)</u>
Lung	Limited stage SCLC, with or without emergent indications	1	<u>1st-line</u> LUSCPERT (limited)	LUSCPOE with or without RT LUSCPOE LUSCPOE Delay/omit	Consider RT alone	e.g. SVC obstruction



Lung	Extensive stage SCLC with or without emergent indications	2	<u>1st-line</u> LUSCPE <u>2nd-line +</u> LUSCPI, LUSCTOP,LUSCPOE	LUSCPOE with or without RT LUSCPOE LUSCPOE Delay/omit	Consider RT alone	eg. symptomatic/life- threatening visceral involvement not amenable to RT Consider patient factors e.g. duration of prior response, performance status.
Lung	Stage II or IIIA NSCLC (Adjuvant)	2	LUAJNP, LUAJPC	Consider LUAVPP or Delay/omit	Delay or omit Adjuvant RT alone for stage III	Avoid delay >12 weeks as curative
Lung	Stage IIIA NSCLC (combined modality)	3	LULAPERT, LULAPE2RT, LULACATRT, followed by ULULADUR or ULULADUR4	LUAVPP with or without sequential RT ULULADUR4 only	RT or surgeryalone Delay/omit ULULADUR or ULULADUR4	Avoid delay >12 weeks as curative
Lung	Stage IIIB/IV NSCLC EGFR+	3	ULUAVOSIF, ULUAVOSI, LUAVGEFF, LUAVERL, LUAVAFAT	Oraltherapy	Further mitigation notlikelyneeded	
Lung	Stage IIIB/IV NSCLC ALK +	4	LUAVALE, ULUAVCER, LUAVCRIZ, LUAVCRIZF	Oral therapy	Further mitigation notlikelyneeded	
Lung	Stage IIIB/IV NSCLC EGFR/ALK neg PDL1 <50%	5	1 st -line LUAVPP x 4-6 cycles- >LUAVPMTN, LUAVPG x 4-6 cycles 2 nd -line +	q4-6 weekly cycle 4 cycles platinum doublet only Delay/omit LUAVPMTN Consider q4-6 weekly cycle Delay/omit	Consider RT and/or BSC	Consider patient factors e.g. ECOG, co-morbidities
			LUAVPEM,LUAVDOC,LU AVERL,			



			ULUAVNIV,ULUAVNIV4, ULUAVATZ, ULUAVPMB,ULUAVPMB 6			
Lung	Stage III B/IV NSCLC EGER/ALK peg	4	<u>1st-line</u> ULUAVPMBF,ULUAVPM BE6	q6 weekly cycle or delay	Consider RT and/or BSC	
	PDL1 ≥50%	5	2 nd -line + LUAVPP, followed by LUAVPMTN LUAVPG x 4-6 cycles LUAVPEM, LUAVDOC, LUAVERL	Consider q4-6 weekly cycle x 4 Delay/omit		
Lung	Malignant mesothelioma	4 5	<u>1st</u> <u>2nd-line</u> LUMMPP, LUMMPG, LUMMVIN	q4-6 weekly cycle Delay/omit	Consider RT and/or BSC	
Lung	Thymoma Thymic carcinoma	3 (curative) 4/5 (palliative)	LUOTPERT LUOTCAV, LUOTPAC, LUOTPE,	Substitute oral etoposide Delay/omit	Consider RT only Consider RT and/or BSC	

8.2 Radiation Therapy

<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used (non-pandemic situation)	Management Option for Deferral of RT During Pandemic	Other mitigations (including aggressive tx reduction measures)	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
NSCLC	Stage III	2	60Gy/30 VMAT (w/	Neoadj chemo	55Gy/20 VMAT (no	Neoadj chemo allowed in



<u>Tumour</u>	Subsite/risk	Prioritization	Preferred Fractionation	Management	Other mitigations	Comments:
<u>subsite</u>	group	Level	and Technique if RT	Option for	(including	(Reasonable delays,
			used (non-pandemic	Deferral of RT	aggressive tx	other treatment options,
			situation)	During	<u>reduction</u>	other comment)
				<u>Pandemic</u>	<u>measures)</u>	
			chemo)		concurrent chemo)	PACIFIC.
				Sequential chemo		Sequential chemo-RT only slightly inferior to concurrent chemo-RT.
					50-60Gy/15 VMAT (no concurrent chemo) Omit RT (if no concurrent/seq chemo)	15 fraction from Sunnybrook and UK RT alone has low probability of long term survival
NSCLC	Stage I-IIA (peripheral)	3	48 Gy/4 SABR	Observation	34Gy/1* SABR Surgery	Observation reasonable for early stage cancer, especially if no biopsy, growingly slowly on serial CTs, lepidic adeno, older age, multiple comorbidities, history of multiple previous lung cancers 34Gy/1 comparable to 48Gy/4 per RTOG 0915
NSCLC	Stage I-IIA	3	60 Gy/8 SABR	Observation	50Gy/5	Observation as above



<u>Tumour</u>	<u>Subsite/risk</u>	Prioritization	Preferred Fractionation	Management	Other mitigations	Comments:
<u>subsite</u>	group	Level	and Technique if RT	Option for	(including	<u>(Reasonable delays,</u>
			<u>used (non-pandemic</u>	Deferral of RT	aggressive tx	other treatment options,
			<u>situation)</u>	<u>During</u>	<u>reduction</u>	<u>other comment)</u>
				<u>Pandemic</u>	<u>measures)</u>	
	(central)					
					Surgery	50Gy/5 from USA. Can
						adapt constraints from
						TG101 or RTOG0813
NSCLC	StageIIB	3	60Gy/30 VMAT (w/	Neoadjuvant	60Gy/15 VMAT	Can adapt 60/15
	(T3N0)		chemo)	chemo		constraints from
					Surgery	BR25/LUSTRE/SUNSET
						even though these trials
						did not study this disease
						stage
NSCLC	StageIIB	3	60Gy/30 VMAT (w/	Neoadjuvant	55Gy/20 VMAT (no	55Gy/20 from UK (no
	(T1-2N1)		chemo)	chemo	concurrent chemo)	concurrent chemo)
					50-60Gy/15 VMAT	15 fraction from
					(no concurrent	Sunnybrook and UK
					chemo)	
				-	Surgery	
NSCLC	Post-op N2 or	4	RT 50-60Gy/25-30	Defer RT	Omit RT	Benefit unclear in N2
	+ve margins		VMAT			
All Lung	StageIV	1-2	20Gy/5 POP	No deferral	8-10 Gy/1 POP	10Gy/1 from UK
				option		
All Lung	Stage IV	3-5	20Gy/5 POP	Defer RT if	8-10Gy/1 POP	10Gy/1 from UK
				asymptomatic		
SCLC	Limited Stage	2	40Gy/15 or 45Gy/30	40Gy/15 VMAT	Surgery (select	
	(Thoracic RT)		BID VMAT	(no deferral	T1N0)	



Tumour	Subsite/risk	Prioritization	Preferred Fractionation	Management	Other mitigations	Comments:
<u>subsite</u>	group	<u>Level</u>	and Technique if RT used (non-pandemic	Option for Deferral of BT	(including	(Reasonable delays, other treatment options
			situation)	During	reduction	other comment)
				Pandemic	measures)	
				option)		
SCLC	Limited Stage (PCI)	3	25Gy/10 POP	Defer RT with MRI surveillance	Omit RT/surveillance	
SCLC	Extensive Stage (Consolidative Thoracic RT)	3	20-30Gy/5-10 POP	Defer RT	Omit RT	Benefit in small % of patients (2 yr OS 13% vs 3%, 1yr OS ~30%)
SCLC	Extensive Stage (PCI)	3	25Gy/10 or 20Gy/5 POP	Defer RT with MRI surveillance	Omit RT/surveillance	
Thymoma	Un-resected	3	60Gy/30 VMAT (w/ chemo)	Neoadj chemo	RT alone 55Gy/20 or 40Gy/15 VMAT Palliative 30Gy/10, 20Gy/5, 8-10Gy/1 POP	Try to give as many fractions as feasible
Thymoma	Resected	4	RT 50-60Gy/25-30 VMAT	Defer RT	Omit RT	

Footnotes: *Individual centres should determine the feasibility of introducing 34Gy/1 at their respective centres given their workload and resource availability during the pandemic.

3D CRT can be considered in lieu of VMAT if resources are impacted.



9.0 Lymphoma

9.1 Systemic Therapy

Tumour	Subsite/risk group	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	(Reasonable delays,
				<u>when</u>	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		comment)
Non-	Low grade – limited	4	RT	Observation 3-6	If no RT available, but	
Hodgkin	stage, curative			months (if low	symptomatic,	
Lymphoma				bulk,	Consider systemic	
(NHL)				asymptomatic, or	treatment:	
				if completely	Rituximab monotherapy,	
				excised)	or immuno-	
					chemotherapy (BR)	
NHL	Low grade –	4	BR x 6 and R	Same, but	Can consider rituximab	For patients with an
	advanced stage,		maintenance x 2	consider close	monotherapy or R-CVP	excellent response
	symptomatic		years	observation alone	instead of BR in patients	(eg CR after 4 cycles
				or RT to	who are high risk for	BR), can consider
				symptomatic sites	infection, or consider no	abbreviated therapy,
				followed by	maintenance rituximab	or no maintenance.
				observation in		
				patients with		If no IV systemic
				borderline		therapy available,
				indications for		consider oral
				treatment; also		cyclophosphamide or
				recommend		steroids.
				delaying/holding		
				maintenance		
				rituximab for all		
				low grade		



Tumour	Subsite/risk group	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		<u>comment)</u>
				lymphomas other		
				than follicular		
				lymphoma (ie. no		
				maintenance for		
				MZL, LPL,		
				discordant or		
				composite		
				lymphomas)		
NHL	DLBCL – limited	2	R-CHOP x 3 then	Same	If no RT available,	Selective use of CNS
	stage		PET, followed by		consider R-CHOP x 6 for	prophylaxis with HD
			R-CHOP x 1 or RT	Empiric G-CSF for	PET-positive patients	MTX for highest risk
				all patients		patients only (such
						as renal/adrenal
						involvement and
						testicular NHL); if no
						hospital admissions
						possible, delay or
						omit MTX
NHL	DLBCL – advanced	2	R-CHOP x 6 then	Same	If no RT available,	Selective use of CNS
	stage		PET, followed by		consider close	prophylaxis with HD
			RT if PET-positive	Empiric G-CSF for	observation	MTX for highest risk
				all patients		patients only (such
						as renal/adrenal
						involvement and
						testicular NHL); if no
						hospital admissions



<u>Tumour</u> subsite	Subsite/risk group	Prioritization Level	<u>Current</u> Management	Management Option for use	Specifics Regarding Management Options	<u>Comments:</u> (Reasonable delays,
				when	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		<u>comment)</u>
						possible, delay or omit MTX
NHL	PMBCL – limited and advanced	2	R-CHOP x 6 or DA-EPOCHR x 6, followed by PET and RT if PET- positive	Same, but would try to avoid DA- EPOCHR. Empiric G-CSF for all patients	If no hospital admissions possible, then R-CHOP x 6; if no RT available, consider close observation.	
NHL	DHIT	2	R-CHOP x 6 or DA-EPOCHR, followed by PET and RT if PET- positive	Same, but would try to avoid DA- EPOCHR. Empiric G-CSF for all patients.	If no hospital admissions possible, then R-CHOP x 6; If no RT available, consider close observation.	
NHL	PTCL – limited stage	2	CHOP x 3 (or coming soon BV- CHP x 3 for CD30 ⁺ patients) then RT	Same Empiric G-CSF for all patients.	If no RT available, consider CHOP x 6 (or coming soon BV-CHP x 6 for CD30 ⁺ patients)	
NHL	PTCL – advanced stage	2	CHOP x 6 (or coming soon BV- CHP x 6 for CD30 ⁺ patients) then PET, followed by RT if PET- positive. Consolidation	Same, Empiric G-CSF for all patients.	If no RT available, consider close observation. ASCT/allo-SCT may be delayed in some patients based on availability and risk assessment.	


<u>Tumour</u>	Subsite/risk group	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		<u>comment)</u>
			with ASCT/allo-			
			SCT considered in			
			suitable patients			
NHL	NK/T cell – limited	2	Concurrent	Same	If no RT available then 6	
	stage		cisplatin and RT,		cycles of VIPD	
			then VIPD x 3	Empiric G-CSF for		
				all patients		
NHL	NK/T cell -	2	SMILE	Same, although	If no hospital admissions	
	Advanced stage		chemotherapy up	given the intensity	possible, consider	
			to 6 cycles, then	of SMILE and	alternative multi-agent	
			PET, followed by	requirement for	chemotherapy options	
			RT if PET-	hospitalization,	(such as gemcitabine-	
			positive.	may consider	based regimens). If no RT	
				alternative multi-	available, consider close	
			Consolidation	agent	observation. ASCT/allo-	
			with ASCT/allo-	chemotherapy	SCT may be delayed in	
			SCT considered in	options (such as	some patients based on	
			suitable patients	gemcitabine-	availability and risk	
				based regimens)	assessment.	
NHL	Aggressive B or T	2	(R)-GDP x 3, then	Same	ASCT may be delayed in	
	cell lymphoma,		ASCT		some patients based on	
	relapsed/refractory			Empiric G-CSF for	availability, consider	
	Transplant eligible			all patients	additional cycles of (R)-	
					GDP followed by close	
					observation	
NHL	Aggressive B or T	3	Palliative	Same, select	CAR-T cell therapy and	



<u>Tumour</u>	Subsite/risk group	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization Level	other treatment
				<u>prioritization</u>	Activated	options, other
				level activated		<u>comment)</u>
	cell lymphoma,		systemic therapy,	therapy with aim	clinical trials will likely	
	relapsed/refractory		or RT to	to reduce	not be available	
	Transplant		symptomatic site	clinic/chemo unit		
	ineligible		followed by	visits and		
			observation,	minimize toxicity,		
			clinical trials and	oral therapy		
			CAR-T cell	preferred when		
			therapy to be	appropriate		
			considered			
NHL	MCL	3	BR x 6, then	Same, but for	ASCT will likely be	If ASCT deferred,
	Transplant eligible		ASCT, then	patients with	delayed or deferred in	consider proceeding
			Rituximab	borderline	some patients based on	to Rituximab
			maintenance x 2	indications for	availability and risk	maintenance instead
			years	treatment,	assessment	
				consider close		
				observation,		
				or consider RT to		
				symptomatic sites		
				followed by		
				observation		
NHL	MCL	3	BR x 6, then	Same, but for	Can consider R-CVP	For patients with an
	Transplant		Rituximab	patients with	instead of BR in patients	excellent response
	ineligible		maintenance x 2	borderline	who are high risk for	(eg CR after 4 cycles
			years	indications for	infection, or consider no	BR), can consider
				treatment,	maintenance	abbreviated therapy,
				consider close		or no maintenance.



<u>Tumour</u>	<u>Subsite/risk group</u>	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		<u>comment)</u>
				observation, or		
				consider RT to		If no IV systemic
				symptomatic sites		therapy, consider
				followed by		Ibrutinib.
				observation		
NHL	Primary CNS	2	HD MTX in	Same, ASCT may	If no RT available and	
			suitable patients,	be delayed in	patient is not a MTX	
			then ASCT	some patients	candidate, then	
			consolidation in	based on	alternative systemic	
			"fit" patients	availability.	options should be	
			with good		considered, such as	
			response.	If no hospital	Temozolomide or high	
				admissions	dose dexamethasone	
			Otherwise whole	possible, then		
			brain RT	whole brain RT		
				would be		
				alternative		
NHL	Burkitt lymphoma	1-2	Alternating	Same, if no		
			CODOXMR/IVACR	hospital		
			in suitable	admissions		
			patients,	possible, then R-		
			otherwise DA-	CHOP x 6 may be		
			EPOCHR x 6	an alternative		
Hodgkin	Classical – Limited	2	ABVD x 2, then	Same	If no RT available,	
lymphoma	stage		PET, then AVD x 2		consider ABVD x 6 for	
			or RT if PET-		PET-positive	



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk group</u>	Prioritization Level	<u>Current</u> <u>Management</u>	Management Option for use when prioritization	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other
				level activated		<u>comment)</u>
			positive			
Hodgkin lymphoma	Classical - Advanced stage	2	ABVD x 2, then PET, then AVDx4 if PET-negative or ABVD x 4 if PET- positive. PET- positive patients have EOT PET to consolidative RT Note: elderly patients receive dose-modified treatment, without bleomycin and with empiric G- CSE support	Same	If no RT, consider close observation in PET- positive	
Hodgkin lymphoma	NLPHL	3-4	Treated similar to classical HL as above. Alternatively, in select patients, surgical excision, local RT (stage 1), or observation,			



Tumour	Subsite/risk group	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	(Reasonable delays,
				<u>when</u>	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		<u>comment)</u>
			can be			
			considered			
Hodgkin	Relapsed/refractory	2	GDP x 3 then	Same, empiric G-	ASCT may be delayed in	
lymphoma	Transplant eligible		ASCT, then BV	CSF support for all	some patients based on	
			maintenance x 1	patients	availability, consider	
			year		additional cycles of GDP	
					followed by close	
					observation	
Hodgkin	Relapsed/refractory	3-4	Palliative	Same, select		
lymphoma	Transplant		Brentuximab or	therapy with aim		
	ineligible		PD-1 inhibitors,	to reduce		
	_		or other systemic	clinic/chemo unit		
			options	visits and		
			or consider RT to	minimize toxicity.		
			symptomatic	Clinical trials		
			sites followed by	unlikely to be		
			observation,	available		
			clinical trials to			
			be considered			
CLL	Unsuitable for FCR,	4	Ibrutinib	Same.	Preferred option at	Select therapy with
	or high-risk				relapse is Venetoclax-R.	aim to reduce
	genetics				If no hospital admissions	clinic/chemo unit
					possible, patients at high	visits and minimize
					risk of TLS may require	toxicity
					"debulking" with an	
					alternative regimen such	



Tumour	Subsite/risk group	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		<u>comment)</u>
					as BR for 1-2 cycles, prior	
					to starting venetoclax-R	
CLL	FCR-candidate, no	4	FCR	FCR treatment	Preferred option at	Select therapy with
	high risk genetics			should be avoided	relapse is Venetoclax-R.	aim to reduce
				at this time,	If no hospital admissions	clinic/chemo unit
				ibrutinib should	possible, patients at high	visits and minimize
				be considered	risk of TLS may require	toxicity
				front-line instead	"debulking" with an	
					alternative regimen such	
					as BR for 1-2 cycles, prior	
					to starting venetoclax-R	
Multiple	Transplant eligible	3-4	CyBorD x 4, then	Same, although	For options at relapse,	
Myeloma –			ASCT, then	ASCT will likely be	select therapy with aim	
			maintenance	delayed or	to reduce clinic/chemo	
			lenalidomide	deferred in some	unit visits and minimize	
				patients based on	toxicity	
				availability and		
				risk assessment. If		
				necessary,		
				consider treating		
				with up to 9 cycles		
				of CyBorD		
				followed by		
				observation		
Multiple	Transplant	3-4	CyBorD x 9 or	Currently, the	For options at relapse,	
Myeloma –	ineligible		Lenalidomide-	Len-Dex regimen	select therapy with aim	



Tumour	Subsite/risk group	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	(Reasonable delays,
				when	when Prioritization Level	other treatment
				prioritization	Activated	options, other
				level activated		<u>comment)</u>
Transplant			dexamethasone	would be	to reduce clinic/chemo	
ineligible				preferred to	unit visits and minimize	
				minimize patient	toxicity	
				visits		

9.2 Radiation Therapy

<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	Management Option for Deferral of RT During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other <u>treatment</u> options, other <u>comment</u>)
Non Hodgkin Lymphoma (NHL)	DLBCL – PET + post chemo	2	35- 40Gy/20, VMAT vs 3DCRT	If uncertainties with PET, consider repeat imaging/observation x 3m, if limited stage and radiation not available consider further cycles of chemotherapy	Hypofractionated RT: ILROG:30Gy/6, mediastinum: 36-39Gy/12- 13	



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	Management Option for Deferral of RT During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other <u>treatment</u> options, other <u>comment</u>)
NHL	Low grade - Curative	4	24 Gy/12, VMAT vs 3DCRT	Observation x 3 – 6 months (if small bulk, or asymptomatic) If completely excised consider no RT.	Steroid treatment Rituximab, <u>Hypofractionated RT:</u> ILROG – 4Gy/1, re-evaluate if insufficient response proceed with 20Gy/5	No expected adverse effect on outcome
NHL	Low grade - Palliative	4	4Gy/2, 4 – 6Gy/1	Best Supportive Care (BSC) – steroids, pain medications	4 – 6Gy/1	
NHL	DLBCL – chemo refractory	2-3* case by case basis	40Gy/20 VMAT vs 3DCRT	Best Supportive Care (BSC) – steroids, pain medications	Hypofractionated RT: ILROG:30Gy/6, mediastinum: 36-39Gy/12- 13	
NHL	DLBCL – no chemo option	2-3* case by case basis	35-40Gy/20 VMAT vs 3DCRT	Best Supportive Care (BSC) – steroids, pain medications	Hypofractionated RT: ILROG: 30Gy/6 or 36-39 Gy/12-13	
NHL	NK/T-cell	2	40 – 55Gy/20- 30 with chemo	XRT alone if chemo not available	In patients treated with chemotherapy preRT: <u>36Gy/9</u>	Would not advocate hypofractionated



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> <u>Level</u>	Preferred Fractionation and Technique if RT used	<u>Management Option</u> for Deferral of RT During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other <u>treatment</u> options, other <u>comment</u>)
						course with concurrent chemo
NHL	Peripheral T-cell lymphoma	3	35Gy/20 if curative	Observation	25/5 curative dose; Palliative doses: 6-8Gy/1, 12Gy/3, 20Gy/5	
NHL	CNS lymphoma – no chemo option	2-3* case by case basis	35 – 45 Gy/20 – 25 fractions	Best Supportive Care (BSC) – steroids, pain medications	Hypofractionated RT: 30Gy/10-15 20Gy/5	
NHL	CNS lymphoma – post chemotherapy	2-3* case by case basis	35 – 40Gy/20	Best Supportive Care (BSC) – steroids, pain medications	Hypofractionated RT: 30 Gy/10-15 20Gy/5	
NHL	Testicular lymphoma – prophylactic radiation	4	30Gy/10, electrons vs photons	Observation, orchiectomy	30Gy/10 20-25/5	
Hodgkin Lymphoma	PET+ post chemo	2	30-35/15-20 VMAT vs 3DCRT	If uncertainty with PET can consider observation x 3 months	Hypofractionated RT: 36-39Gy/12-13	
	NLPHL	3	30-35/15-20 VMAT vs 3DCRT	Observation	Hypofractionated RT: ILROG:27Gy/9	



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	Management Option for Deferral of RT During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable <u>delays, other</u> <u>treatment</u> <u>options, other</u> <u>comment)</u>
Plasmacytoma	SPB	3	45Gy/25, VMAT vs 3DCRT	Observation if small/no impending fracture	Non-spine, non-H&N: 30gy/6; spine or H&N: 36/12	
	Extramedullary	3	45Gy/25, VMAT vs 3DCRT	Observation if small/no impending complication	Non-spine, non H&N: 30Gy/6; spine or H&N: 36/12	
Multiple Myeloma	Spinal Cord compression	1	8Gy/1 – 20Gy/5	Palliation, BSC	8Gy/1	
Multiple Myeloma	Symptomatic, no cord compression	3	8Gy/1 – 20Gy/5	Palliation, BSC	8Gy/1	

*Recommend keeping track of all cases where hypofractionation are used to evaluate collaboratively in future. Awaiting ILROG rapid publication in Blood to confirm doses and fractionation to ensure in keeping with recommended international policies.

*RIT – Do not recommend use of RIT during pandemic due to prolonged immunosuppression, many alternative therapies and rarity of use.



10.0 Sarcoma

10.1 Systemic Therapy

Tumour	Subsite/risk group	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	(Reasonable delays,
				when	when Prioritization	other treatment
				prioritization level	Level Activated	options, other
				activated		comment)
Sarcoma	Ewing's sarcoma,	2	Neoadjuvant	Primary surgery	none	Highly sensitive
	Rhabdomyosarcoma		chemotherapy			tumour type with
	 curative intent 		with SAALT2W or			cure possible if
			SAALT3W (if			neoadjuvant chemo
			q2weekly not			+ RT is given
			tolerated).			
			Currently given			
			as inpatient at			
			Vancouver			
			Centre.			
			All future pts can			
			receive as			
			outpatient			
			protocol of both			
			SAIME and			
			SAVAC			
Sarcoma	Osteosarcoma –	2	Neoadjuvant	Primary surgery	Patients may need to	Highly sensitive
	curative intent		SAAJAP currently		return to centre for IV	tumour type with
			given as inpatient		hydration if oral	cure possible with
			at Vancouver		hydration cannot be	current protocols
			Centre.		maintained at home	followed
			Plan for future			
			pts to receive as			



<u>Tumour</u>	Subsite/risk group	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization	other treatment
				prioritization level	Level Activated	options, other
				activated		<u>comment)</u>
			outpatient as			
			long as hydration			
			can be given			
			orally.			
			Pediatric			
			regimens include			
			high dose			
			methotrexate.			
Sarcoma	Ewing's sarcoma,	3	VOIT regimen	Could consider	Antibiotic prophylaxis	Highly sensitive
	Rhabdomyosarcoma		should be utilized	omitting vincristine	needed with Cefixime	tumour with
	 metastatic or 		over SAAVTC	IV and continue		opportunity to
	recurrent, palliative		protocol to	with oral		provide palliation
	intent		minimize chemo	irinotecan and		but can progress
			chair time	temozolomide only		quickly. Need to
						monitor closely
Sarcoma	Osteosarcoma –	3	SAAVAP if	Consider use of	Response rates will be	
	recurrent or		treatment naïve,	regorafenib orally	variable, and	
	palliative intent		plan as	for these patients	regorafenib likely	
			outpatient as	to decrease	inferior to first line	
			long as hydration	utilization of	chemotherapy	
			can be given	chemotherapy		
			orally.	chair		
			SAVIME3 for			
			previously			
			treated patients			
			with good ECOG			



Tumour	Subsite/risk group	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization	other treatment
				prioritization level	Level Activated	<u>options, other</u>
				activated		<u>comment)</u>
			and able to tolerate, SAAVA for pts with lower PS Regorafenib as per REGABONE trial used orally			
Sarcoma	Soft tissue – curative intent	NA	Currently adjuvant chemotherapy not given standardly	No adjuvant therapy as there is no evidence to support		These patients do have good response to neoadjuvant radiotherapy and this should be considered
Sarcoma	Soft tissue – metastatic with palliative intent Dedifferentiated Liposarcoma	4	SAAVA, Eribulin	Offer SAAVA only		No sensitivity to oral pazopanib
Sarcoma	Soft tissue – metastatic, Leiomyosarcoma	4	SAAVA, Eribulin, Gemcitabine Docetaxel, Pazopanib (patient self- funded)	See comments	See comments	Pazopanib has shown benefit in metastatic STS (non- lipomatous) for improvement in PFS, and would be appropriate to use in situation where



Tumour	Subsite/risk group	Prioritization	<u>Current</u>	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	(Reasonable delays,
				<u>when</u>	when Prioritization	other treatment
				prioritization level	Level Activated	options, other
				activated		<u>comment)</u>
						access to IV therapy
						is limited or not
						available. In the
						event that phase is
						activated the cost-
						benefit of this agent
						may be appropriate
						depending on access
						or compassionate
						support from
						industry.
Sarcoma	Malignant solitary	4	Temozolomide	Consider holding		
	fibrous tumour		and bevacizumab	bevacizumab (oral		
				temozolomide		
				only)		
Sarcoma	Kaposi's sarcoma –	3	KSLDO	Could consider	Radiation to	
	not responding to			changing to q4	symptomatic areas in	
	anti-retroviral if HIV			weeks instead of	lieu of systemic	
	associated or			q2week dosing,	chemotherapy	
	evidence of visceral			only patients who		
	disease or endemic			are symptomatic		
	KS			or have organ		
				involvement would		
				be treated if		
				prioritization level		
				activated		



Tumour	Subsite/risk group	Prioritization	Current	Management	Specifics Regarding	Comments:
<u>subsite</u>		Level	Management	Option for use	Management Options	<u>(Reasonable delays,</u>
				<u>when</u>	when Prioritization	other treatment
				prioritization level	Level Activated	options, other
				activated		<u>comment)</u>
Sarcoma	Giant cell tumour of	5	SAADENO	Arrange for patient	Review with Ortho with	
	bone			to self-inject at	regards to operability	
				home monthly,	and access to OR	
				treatment can be		
				delayed if needed,		
				primary surgery		
				may be most		
				appropriate in		
				cases		
Sarcoma	Desmoid	5	SAMV is an	Sorafenib should	Radiation may help for	Tumour has ability to
	Fibromatosis		option in patients	be used	symptoms	spontaneously
			who are	preferentially in		regress
			progressing and	these patients, for		
			symptomatic and	those progressing		
			for whom	on sorafenib		
			sorafenib or	watchful waiting if		
			other treatment	symptoms		
			modalities have	controlled		
			not helped			



Provincial Health Services Authority 10.2 Radiation Therapy

<u>Tumour subsite</u>	Subsite/risk	Prioritization	Preferred	Management	Specifics Regarding	Comments:
	group	Level	Fractionation	Option for Deferral	Management	<u>(Reasonable delays,</u>
			and Technique	of RT During	Options when	other treatment
			<u>if RT used</u>	<u>Pandemic</u>	Prioritization Level	options, other
					Activated	<u>comment)</u>
Soft tissue Sarcoma	Pre-operative:	3	50Gy/25#	Surgery,	Hypofractionation:	Primary treatment is
	extremity,	*if surgery is		Postoperative	- 42.5Gy/16 with	surgery. Significant
	trunk, head and	available		radiation,	standard timing	risk of patients
	neck	otherwise		neoadjuvant	for surgery	becoming infected
		level 2		chemotherapy for	 RCR*: pre-op 	with COVID-19
				certain histologies	25Gy/5 with	during radiation
				(Myxoid LPS, SS etc.)	surgery within 2	over a 5-6 week
					weeks.	course. Each case
					- RTOG 0630	should be discussed
					30Gy/5 with	on an individual
					surgery 1-2	basis.
					weeks post-op	
Soft Tissue Sarcoma	Post-operative:	3	60-66Gy/30-		Hypofractionation:	If RT deferred can
	extremity,		33#		- 40-50Gy/15 -20	reconsider RT when
	trunk, head and				#(preferred),	capacity is greater
	neck				36Gy/6# weekly	(16 – 20wks) as long
						as local recurrence
						has not occurred.
Soft Tissue Sarcoma	Retroperitoneal	3	45-50Gy/25	Surgery,	Depending on	Post-operative
				Neoadj chemo	size/volume may	radiation is not an
					consider 40Gy/15	option. Would wait
					pre-op.	to see if recurrence
						and then consider
						radiation at that



<u>Tumour subsite</u>	Subsite/risk group	Prioritization Level	Preferred Fractionation and Technique	Management Option for Deferral of RT During	Specifics Regarding Management Options when	<u>Comments:</u> (Reasonable delays, other treatment
			if RT used	Pandemic	Prioritization Level	options, other
					<u>Activated</u>	<u>comment)</u>
						time
Rhabdomyosarcoma		3	50.4-55Gy/28 - 30	Surgery, chemo	 Hypofractionation: 40-50Gy/15 – 20 fractions, 36/6 weekly* 	Use of hypofractionation not encouraged in patients at risk for significant long term side effects (ie. age, size, location). Each case should be discussed on an individual basis.
Ewing		3	45Gy/25 50.4Gy/28	Surgery for local management	Hypofractionation: - 40-50Gy/15 – 20 fractions	Use of hypofractionation not encouraged in patients at risk for significant long term side effects (ie. age, size, location). Each case should be discussed on an individual basis. Definitive radiation should be used as normal if surgery not possible or appropriate.



<u>Tumour subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	Preferred Fractionation and Technique if RT used	<u>Management</u> Option for Deferral of RT During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, <u>other treatment</u> <u>options, other</u> <u>comment</u>)
Osteosarcoma/ Chondrosarcoma		3	60Gy/30	Observation, chemotherapy	Hypofractionation: - 40-50Gy/15 – 20 fractions - 36Gy/6 weekly*	Postoperative radiation may be deferred in low grade tumours. Consider on an individual basis for high grade tumours.
Fibromatosis		4	54Gy/28	Observation, systemic options, surgery	Hypofractionation: - 40-50Gy/15 – 20 fractions - 36Gy/6 weekly*	Non-malignant local aggressive condition. Definitive radiation can be safely deferred in most instances.

Footnotes:

- At present no RT for benign conditions. For heterotrophic ossification/keloids elective surgeries have likely been cancelled. Case by case basis if patient has had surgery and is sent for radiation.
- Individual cases not fitting within the mandate of this document or requiring special consideration will be reviewed by the Provincial radiation oncologists as a group.

*RCR = Royal college of radiologists

Kosela-Aterczyk et al. Preoperative hypofractionated radiotherapy in the treatment of localized soft tissue sarcomas. Eur J Surg Oncol. 2014 Dec;40(12):1641-7



Kalbasi et al. A phase II trial of 5 day neoadjuvant radiotherapy for patients with high-risk primary soft tissue sarcoma. Clinical cancer research. 2020 Feb 13.

11.0 Skin Cancer

11.1 Systemic Therapy

<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> <u>Level</u>	<u>Current</u> Management	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
Melanoma	Stage III or IV resected NED Adjuvant therapy	3	1 year of dabrafenib and trametinib for BRAF positive patients or 1 year anti-PDI (nivolumab at this time but pembro in negotiation) for BRAF positive or negative patients.	May initiate up to 12 weeks from time of surgical resection of melanoma. Choose regimens that are the least taxing on the health system and patient. Options include: • Nivolumab 480 mg IV q 4 weeks x one year • Pembrolizumab, 200 IV q 3 weeks x one year • dabrafenib/trametinib for 1 year		Reasonable to extend start to treatment window up to 4 or 5 months if a physician wants to avoid starting an adjuvant program in the height of COVID. (Note that here is no data to support such a delay but could be considered after taking into account risks of treatment vs risks of delaying treatment).
Melanoma	Stage IV	1 (if very symptomatic	BRAF positive -BRAF/MEK	Carefully consider the toxicity of the regimen	Footnote 2.	



<u>Tumour</u> subsite	<u>Subsite/risk</u> group	Prioritization Level	<u>Current</u> Management	<u>Management Option</u> for use when prioritization level	Specifics Regarding Management Options when Prioritization	<u>Comments:</u> (Reasonable delays, other treatment options.
				activated	Level Activated	other comment)
	No prior systemic therapy No brain mets	with organ compromise as we can turn them around with targeted therapy or combination IO) 2 (minimally or asymptomatic) Palliative therapy with IO therapy in melanoma can result in 5 year PFS of 30% (single agent anti-PDI) and 50% (combo Ipi + Nivo). Many of these patient appear	inhibitor Or -Anti-PDI Or -Combination Ipi /Nivo ³ BRAF Wild Type -Anti-PDI Or -Combination Ipi/ Nivo ³	selected with preference for agents with the lowest toxicity profile. Footnote 1. Single agent PD-1 should be considered for every patient without brain metastasis.	A regimen of ipilimumab 1 mg/kg and nivolumab 3 mg/kg every 3 weeks for 4 infusions, with subsequent consideration for nivolumab monotherapy, is associated with lower rates of immune- mediated toxicity compared to the FDA standard. This is currently not approved at BC Cancer.	



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	<u>Current</u> Management	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
		to stay in remission. Footnote 4.				
Melanoma	Stage IV Progressed on prior systemic therapy No brain mets	3 There is still evidence of improved outcomes for second line systemic therapy for advanced melanoma.	BRAF positive -BRAF/MEK inhibitor Or -Anti-PDI (if not already given or if progressed > 6 months off therapy that was stopped early for a complete response) Or -Single agent ipilimumab (BC Cancer current policy is that combination IO ³ is for first	Carefully consider the toxicity of the regimen selected with preference for agents with the lowest toxicity profile. See Footnote 1. If single agent anti-PD1 was requested for first line and then patient progressed consider second line combination IO therapy if no other option. CAP request required and approval is not guaranteed.	See Footnote 2. A regimen of ipilimumab 1 mg/kg and nivolumab 3 mg/kg every 3 weeks for 4 infusions, with subsequent consideration for nivolumab monotherapy, is associated with lower rates of immune- mediated toxicity compared to the FDA standard. This is currently not approved at BC Cancer.	



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> <u>Level</u>	<u>Current</u> <u>Management</u>	<u>Management Option</u> for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
			line treatment) Or Chemotherapy BRAF Wild Type -Anti-PDI (if not already given or if progressed > 6 months off therapy that was stopped early for a complete response) OR -Single agent ipilimumab OR Chemotherapy			
Melanoma	Stage IV	2	SRS or WBRT to lesions	Nivolumab/ipilimumab combination has a high		



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	<u>Prioritization</u> <u>Level</u>	<u>Current</u> Management	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
	No prior systemic therapy With asymptomatic brain mets	See Footnote 5.	Systemic therapy Combination Ipi +Nivo preferred in asymptomatic brain mets. Single agent anti-PDI less effective. Dabrafenib + Trametinib if BRAF MT and want to avoid risks of combination IO therapy. Combination IO has better PES than	rate of intracranial durable responses (55- 59%), comparable to the extracranial activity of these agents. See Footnotes 6-7. For patients with BRAF V600-mutated melanoma and brain metastasis, consideration could be given to BRAF inhibitor/MEK inhibitor, with an intracranial response rate of up to 58%. See Footnote 8.		
			Dabrafenib+			



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	<u>Current</u> Management	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
			Trametinib			
Melanoma	Stage IV Prior or no prior systemic therapy Symptomatic brain mets requiring steroids	4	SRS or WBRT to lesions Dabrafenib + Trametinib if BRAF mutated. IO therapy has limited efficacy in patients with symptomatic brain mets still requiring steroids after RT.	In symptomatic patients with brain metastases palliative RT is best option. If BRAF mutated then consider combination dabrafenib and trametinib post RT. In patients rendered asymptomatic from palliative RT and on < 10 mg po daily prednisone or equivalent one could consider IO therapy but the risks and benefits in light of COVID need to be considered carefully.		
Merkel	Inoperable/	3 (ECOG 0-1)	Etoposide and platinum	Etoposide and platinum chemotherapy (if	The safety of IO therapy in the context of COVID	



<u>Tumour</u> subsite	<u>Subsite/risk</u> group	Prioritization Level	<u>Current</u> Management	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
Cell	Advanced	4 (ECOG 2) 5 (ECOG ≥ 3)	chemotherapy (if patient can tolerate) and at progression Avelumab	patient can tolerate) and at progression Avelumab.	is unknown. Limit to patients with ECOG 0-2. Risk of febrile neutropenia is high with etoposide and platinum chemotherapy. Consider best supportive care in patients who are very frail, or have lots of comorbidities.	
Squamous Cell Cancer	Inoperable/ Advanced	3 (ECOG 0-1) 4 (ECOG 2) 5 (ECOG ≥ 3)	Cemiplimab is available until May 2020 by pharma access program. Access after May 2020 unknown at this time. OR Palliative	Very frail patients should be considered for best supportive care. No IO therapy in organ transplant patients during COVID due to risk of organ rejection and the medical consequences of this (i.e. need for dialysis).	Limit treatment to patients with ECOG 0-2. The safety of IO therapy in the context of COVID is unknown. Consider best supportive care in patients who are very frail, or have lots of comorbidities.	



<u>Tumour</u> subsite	<u>Subsite/risk</u> group	<u>Prioritization</u> Level	<u>Current</u> Management	Management Option for use when prioritization level activated	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable delays, other treatment options, other comment)
			chemotherapy, usually platinum based			
Basal Cell Cancer	Metastatic	3 (ECOG 0-1) 4 (ECOG 2) 5 (ECOG ≥ 3)	Vismodegib	Vismodegib	Limit treatment to patients with ECOG 0-2. Consider best supportive care in patients who are very frail, or have lots of comorbidities.	

Footnotes:

- 1. It is currently unknown how patients infected with COVID who are on IO therapy will react to the expected immune-related adverse events (irAEs).
- 2. We have asked CAP to consider allowing second line combo Ipi + Nivo for patients who are started on single agent anti-PDI during the COVID pandemic and whose disease progresses. The CAP request should mention that single agent anti-PDI was chosen in light of the risks of COVID 19.
- 3. Nivolumab/ipilimumab combination induces 50-60% grade 3-4 irAEs, more than twice as often as PD-1 monotherapy, frequently necessitating the use of high-dose and prolonged steroid or other immunosuppressive agents. Therefore, decisions about combination vs monotherapy need to be tailored to patient characteristics and with awareness of constrained capacity to manage toxicities.



- 4. There are also some patients who will have very long DFS and OS from targeted therapy (those with low LDH and < 3 organ sites at baseline).
- 5. 2 studies (ABC trial from Australia and the Checkmate 204) have shown response intracranial response rates of 55-59% for combination IO therapy for asymptomatic brain mets. In the Checkmate trial patients could have had SRS to their lesions. 3 year intracranial progression free survival was 43% so it is worth being aggressive in treating these patients. 3 yr PFS was much lower (15%) for patients given single agent anti-PD 1.
- 6. The risk of irAEs is the same as patients without brain metastasis and may be lessened by the alternate dosing of ipilimumab 1 mg/kg and nivolumab 3 mg/kg in the 4 cycles of induction therapy. (which is not approved dose at BC Cancer at this time).
- 7. Single agent anti-PDI 1 has RR 29% in the brain and 3 yr PFS 15%. It is an option for BRAF WT patients in whom the risk of combination IO is too great.
- 8. However, clinicians should take into account that the duration of response is limited, with median PFS around 5 months and there is evidence for lower response to IO therapy after BRAF/MEK inhibitor therapy.

<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	Management Option for Deferral of RT During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	Comments: (Reasonable delays, other treatment options, other comment)
Melanoma	Stage IV brain metastases	2 (assuming >6 week life expectancy); 5 (< 6 week life expectancy, symptom management)	Stereotactic brain radiation for small volume disease; whole brain RT 5 fractions for high volume disease	Surgery for small volume disease; best supportive care for high volume disease		Defer RT if asymptomatic brain lesions, stable on systemic treatment with regular imaging

11.2 Radiation Therapy



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During</u> <u>Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable <u>delays, other</u> <u>treatment</u> <u>options, other</u> <u>comment)</u>
Melanoma	Stage IV disease (not brain) progressing on systemic therapy for SABR	3 (for palliation of symptoms)4 (for asymptomatic oligo-metastases)	SABR or Single fraction palliative radiation if SABR not an option	Surgery for oligo- metastasis if surgically operable	Conservative symptom management; Switch systemic therapy if there is an option	
SCC	Operable	3 (radical RT for high risk lesion) 4 (radical RT for low risk lesion or postoperative RT for high risk lesion)	Radical RT dose fractionation dependent on volume of treatment. Adjuvant RT dose/fraction dependent on volume of treatment	Surgery for radical excision or for salvage	Surveillance - defer management if elderly or frail patient and low risk lesion	Some small stable lesions could be delayed; Squamous Cell Carcinoma In Situ could be treated with topical Efudex
SCC	Locally advanced	2 (primary radical RT) 3 (adjuvant RT)	Radical RT dose fractionation dependent on volume of treatment. Adjuvant	Cemiplimab (if available) or chemotherapy		



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During</u> <u>Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable <u>delays, other</u> <u>treatment</u> <u>options, other</u> <u>comment)</u>
			RT dose/fraction dependent on volume of treatment.			
SCC	Symptomatic Metastatic	 1 (emergent cord compression, bleeding) 2 (>6 week life expectancy, intractable symptom) 3 (>6 weeks life expectancy moderate-severe symptoms) 4 (symptom that can be controlled by other means) 5 (<6 week life expectancy) 	Palliative RT, dose/fraction dependent on location and volume of treatment. Single fraction preferred	Cemiplimab (if available) or chemotherapy	Surgery an option for cord compression	Also see palliative RT for metastases section below.



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	<u>Management</u> <u>Option for</u> <u>Deferral of RT</u> <u>During</u> <u>Pandemic</u>	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (Reasonable <u>delays, other</u> <u>treatment</u> <u>options, other</u> <u>comment)</u>
Merkel	Operable	2 (if RT primary modality) 3 (adjuvant RT)	Radical RT dose/fraction dependent on location and volume of treatment	Radical excision (surgery)		Prefer up front surgery, with RT as backup if surgery not available.
Merkel	Locally advanced/ Metastatic	See metastatic for squamous cell above	Radical RT and palliative RT dose/fraction dependent on location and volume of treatment	Systemic Therapy		
Basal Cell	Operable	4	Radical RT dose/fraction dependent on location and volume of treatment	Surgical excision	Observation	Most are slow growing and radical treatment can be delayed for months
Basal Cell	Locally advanced	See metastatic for squamous cell above	Radical RT and palliative RT dose/fraction dependent on location and volume	Vismodegib is an option for tumors that cannot be treated		



<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	Management Option for Deferral of RT During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	Comments: (Reasonable delays, other treatment options, other comment)
			of treatment	definitively with surgery and RT.		

12.0 Palliative radiotherapy for metastatic disease

<u>Tumour</u> <u>subsite</u>	<u>Subsite/risk</u> group	Prioritization Level	Preferred Fractionation and Technique if RT used	Management Option for Deferral of RT During Pandemic	Specifics Regarding Management Options when Prioritization Level Activated	<u>Comments:</u> (reasonable delays, other treatment options, other comment)
NA	Painful bone metastases	2 to 3	8 Gy/1#	Opioids, bisphosphonate/denosumab	Consider targeted systemic therapy appropriate for site. Consider interventional radiology†, anaesthesia, or palliative care referral where appropriate.	When survival is estimated to be less than 4 weeks, best supportive care is recommended.
NA	Asymptomatic oligo-metastases / oligo- progression	4	Defer SABR if resources constrained Where used,	Continue systemic therapy, or start systemic therapy	Conventional dose and technique RT (eg 8 Gy/1# with simple conventional	



			consider 1 to 3		technique) if	
			fraction		becomes	
			regiments		symptomatic.	
NA	Spinal Cord	1	8 Gy / 1 #	Steroids, opioids, systemic	Consider surgery if	SCORAD III study
	Compression			therapy	feasible.	justifies
						consideration of
						single fractions for
						SCC.
NA	SVCO	2	10 Gy/ 1 #	Steroids, opioids, systemic	Thoracics or IR	
				therapy	intervention+	
	Multiple brain	2	20 Gy/5# whole	Steroids, opioids, systemic	Consider omitting	See also the CNS
NA	metastases (> 3)		brain RT	therapy	WBRT in patients	Tumour group
			Or VMAT to		>age 70, KPS<70,	detailed
			mets only with		uncontrolled primary	recommendations
			20 Gy/5#		or extracranial	on management of
					metastases	brain metastases
						and use of SRS
N/A	Malignant	3	6-8Gy/1#	Tranexamic acid, dressings	Endoscopic or IR	Use of QUAD-SHOT
	Bleeding				intervention+	ie 3.7 Gy x 4
			Consider 0,7,21			fractions BID is not
			day regimen			preferred due to
			with 8 Gy			BID fractionation.
			fractions			