Systemic Therapy Update



April 2017 Volume 20, No. 4

For Health Professionals Who Care For Cancer Patients

Inside This Issue:

- Editor's Choice New Programs: Temozolomide and Radiation for Elderly Patients with Newly Diagnosed Glioma, Lenalidomide and Dexamethasone for Newly Diagnosed Multiple Myeloma, Adjuvant Capecitabine and Gemcitabine for Pancreatic Adenocarcinoma, Bevacizumab and Temozolomide for Advanced Solitary Fibrous Tumours and Hemangiopericytoma
- Benefit Drug List <u>New</u>: CNELTZRT, GIPAJGCAP, UMYLDF;
 USATEMBEV; <u>Revised</u>: HNLACETRT, HNNAVCAP, HNNAVPC, LKATOATRA, LKATOP, LKATOR
- List of New and Revised Protocols, Provincial Pre-Printed Orders and Patient Handouts: New: CNELTZRT, GIPAJGCAP, UMYLDF, USATEMBEV; Revised: CNB, CNBEV, CNCAB, CNCARV, CNCCNU, CNPROC, CNQUIN, CNTAM, GIAVCETIR, GIAVPANI, GIGAJCPRT, UGIYTT, GOBEP, HNLACETRT, HNNAVCAP, HNNAVPC, LKATOATRA, LKATOP, LKATOR, ULKMDSA, ULKMFRUX, UGUAVNIV, ULUAVNIV, USMAVNIV, USMAVPEM, USMAVVEM
- Website Resources and Contact Information

EDITOR'S CHOICE

New Programs

Effective 1 April 2017, the BCCA Provincial Systemic Therapy Program has approved the following programs.

Neuro-Oncology:

Concurrent and Adjuvant Temozolomide and Radiation Therapy for Elderly Patients with Newly Diagnosed Glioma (CNELTZRT) – Approval of this new program is based on one phase III trial showing chemoradiotherapy was superior to radiotherapy alone in median overall survival (7.6 vs. 9.3 mos) and 2-year survival rate (10.4% vs. 2.8%). Toxicity was modest with about 10% increase in grade 3 and 4 neutropenia and thrombocytopenia.¹

Multiple Myeloma:

Lenalidomide with Low-Dose Dexamethasone for Newly Diagnosed Multiple Myeloma (UMYLDF) – A new treatment option of lenalidomide plus dexamethasone (LENDEX) is now approved for patients with newly diagnosed multiple myeloma who are ineligible for stem cell transplant Currently such patients can be treated with either melphalan and prednisone (MP) plus bortezomib (MYMPBOR) or plus thalidomide (UMYMPT). MP-bortezomib is preferred, and MP-thalidomide is offered to patients who live at some distance and would otherwise need to travel far for the frequent bortezomib dosing. Approval of the new combination of lenalidomide and dexamethasone (LENDEX) is based on a phase III trial showing increased

EDITOR'S CHOICE

progression free survival (25.5 vs. 21.2 mos) compared to MP-thalidomide. The LENDEX regimen will replace MP-thalidomide and be an alternative to MP-bortezomib. Access to this new program will require a BCCA Compassionate Access Program approval.

Gastrointestinal:

Adjuvant Chemotherapy for Resected Pancreatic Adenocarcinoma Using Capecitabine and Gemcitabine (GIPAJGCAP) – Currently adjuvant gemcitabine is the standard treatment for resected pancreatic adenocarcinoma. Approval of the new treatment program was based on phase III trial where the combination demonstrated improved overall survival compared to gemcitabine alone (28 mos vs. 25.5 mos), with similar toxicities.³ It is expected that the adjuvant combination regimen will be used in most patients with resected pancreatic adenocarcinoma.

Sarcoma:

Bevacizumab and Temozolomide for Advanced Solitary Fibrous Tumours and Hemangiopericytoma (USATEMBEV) – Patients with advanced solitary fibrous tumours (SFT) and hemangiopericytoma that are no longer amenable to surgical resection are now eligible to receive this treatment through the BCCA Compassionate Access Program (CAP). Advanced SFT and hemangiopericytoma are rare diseases for which there is no current standard of care. In a small retrospective study, bevacizumab with temozolomide demonstrated a partial response rate of 14% and a stable disease rate of 86% as per the RECIST criteria. The estimated median progression-free survival was 10.8 months. Treatment was generally well tolerated, with myelosuppression being the most commonly reported toxicity.

References:

- 1. Perry, JR, et al. A phase III randomized controlled trial of short-course radiotherapy with or without concomitant and adjuvant temozolomide in elderly patients with glioblastoma. J Clin Oncol 2016;34: LBA2 (Abstr).
- 2. Benboubker L, et al. Lenalidomide and dexamethasone in transplant ineligible patient with myeloma. N Engl J Med 2014; 371 (10):906-17.
- 3. Neoptolemos, JP et al. Comparison of adjuvant gemcitabine and capecitabine with gemcitabine monotherapy in patients with resected pancreatic cancer (ESPAC-4): a multicenter, open-label, randomized, phase 3 trial. Lancet 2017;389:1011–24.
- 4. Park MS, Patel SR, Ludwig JA, et al. Activity of temozolomide and bevacizumab in the treatment of locally advanced, recurrent, and metastatic hemangiopericytoma and malignant solitary fibrous tumor. Cancer 2011;117:4939-4947.

BENEFIT DRUG LIST

New Programs

Effective 1 April 2017, the following BCCA treatment programs have been added to the BCCA <u>Benefit Drug List</u>:

Protocol Title	Protocol Code	Benefit Status
Treatment of Elderly Newly Diagnosed Glioma Patient with Concurrent and Adjuvant <i>Temozolomide</i> and Radiation Therapy	CNELTZRT	Class I
Adjuvant Chemotherapy for Resected Pancreatic Adenocarcinoma Using Capecitabine and Gemcitabine	GIPAJGCAP	Class I
Treatment of Previously Untreated Multiple Myeloma and Not Eligible for Stem Cell Transplant Using <i>Lenalidomide</i> with Low-dose <i>Dexamethasone</i>	UMYLDF	Restricted
Therapy for Advanced Solitary Fibrous Tumours and Hemangiopericytoma Using Temozolomide and Bevacizumab	USATEMBEV	Restricted

REVISED PROGRAMS

Effective 1 April 2017, the benefit status of the following BCCA treatment programs have been changed from Restricted to Class I on the BCCA <u>Benefit Drug List</u>:

Protocol Title	Protocol Code
Palliative Therapy for Recurrent Malignant Gliomas Using Bevacizumab With or Without Concurrent Etoposide or Lomustine	CNBEV
Combined Cetuximab and Radiation Treatment for Locally Advanced Squamous Cell Carcinoma of the Head and Neck	HNLACETRT
Treatment of Recurrent or Metastatic Nasopharyngeal Cancer With Capecitabine	HNNAVCAP
Treatment of Recurrent or Metastatic Nasopharyngeal Carcinoma with CARBOplatin and PACLitaxel	HNNAVPC
First-Line Induction and Consolidation Therapy of Acute Promyelocytic Leukemia Using Arsenic Trioxide and Tretinoin	LKATOATRA
First-Line Induction and Consolidation Therapy of Acute Promyelocytic Leukemia Using Arsenic Trioxide, Tretinoin and DAUNOrubicin	LKATOP
Induction and Consolidation Therapy of Relapsed Acute Promyelocytic Leukemia Using Arsenic Trioxide	LKATOR

DELETED PROGRAMS

Effective 1 April 2017, the following BCCA treatment program has been deleted the BCCA Benefit Drug List:

Protocol Title	Protocol Code
Treatment of Multiple Myeloma Using Melphalan, predniSONE and Thalidomide	UМҮМРТ

LIST OF NEW AND REVISED PROTOCOLS, PRE-PRINTED ORDERS AND PATIENT HANDOUTS

BC Cancer Agency Protocol Summaries, Provincial Pre-Printed Orders (PPPOs) and Patient Handouts are revised periodically. New, revised or deleted protocols, PPPOs and patient handouts for this month are listed below. Protocol codes for treatment requiring BCCA Compassionate Access Program approval are prefixed with the letter "U".

NEW PROTOCOLS, PPPOS AND PATIENT HANDOUTS (AFFECTED DOCUMENTS ARE CHECKED)					
CODE	Protocol	PPPO	Patient Handout	Protocol Title	
CNELTZRT		$\overline{\checkmark}$		Treatment of Elderly Newly Diagnosed Glioma Patient with Concurrent and Adjuvant Temozolomide and Radiation Therapy	
GIPAJGCAP	\square	$\overline{\checkmark}$	V	Adjuvant Chemotherapy for Resected Pancreatic Adenocarcinoma Using Capecitabine and Gemcitabine	
UMYLDF	\square	$\overline{\checkmark}$		Treatment of Previously Untreated Multiple Myeloma and Not Eligible for Stem Cell Transplant Using Lenalidomide with Low-dose Dexamethasone	
USATEMBEV	Ø	$\overline{\checkmark}$		Therapy for Advanced Solitary Fibrous Tumours and Hemangiopericytoma Using Temozolomide and Bevacizumab	

NEW PROTOCOLS, PPPOS AND PATIENT HANDOUTS (AFFECTED DOCUMENTS ARE CHECKED)						
CODE	Protocol	PPPO	Patient Handout	Protocol Title		
CNB	V			Test and administration clarified	Suppressive Therapy for Pituitary Adenomas using Bromocriptine	
CNBEV	V	Ø	$\overline{\mathbf{A}}$	CAP requirement deleted, dosing of lomustine and etoposide clarified	Palliative Therapy for Recurrent Malignant Gliomas Using Bevacizumab With or Without Concurrent Etoposide or Lomustine	
CNCAB	V			Test and administration clarified	Suppressive Therapy for Pituitary Adenomas using Cabergoline	
CNCARV	V	$\overline{\checkmark}$		Reformatted with various clarifications	CARBOplatin and Etoposide in the Treatment of Recurrent Ependymoma and Oligodendroglioma	
CNCCNU	V			Reformatted with various clarifications	Lomustine (CCNU) for Treatment of Recurrent Malignant Brain Tumours	
CNPROC	V	$\overline{\checkmark}$		Reformatted with various clarifications	Standard Procarbazine for Second-line Treatment of Recurrent Brain Tumour	
CNQUIN	V			Test and administration clarified	Suppressive Therapy for Pituitary Adenomas usi Quinagolide	
CNTAM	V			Reformatted with various clarifications	Tamoxifen For Patients With Recurrent Brain Tumours Which Are Resistant To First Line Chemotherapy	
GIAVCETIR				Magnesium infusion time revised	Third Line Treatment of Metastatic Colorectal Cancer Using Cetuximab in Combination with Irinotecan	
GIAVPANI		$\overline{\checkmark}$		Magnesium infusion time revised	Palliative Third Line Treatment of Metastatic Colorectal Cancer Using Panitumumab	
GIGAJCPRT	V	Ø	\square	Eligibility, Exclusions, addition of electrolytes, dose modifications	Adjuvant Chemotherapy of Gastric Cancer patients with Completely Resected Gastric Cancer using CISplatin and Capecitabine and Radiation Therapy	
UGIYTT	V			Eligibility clarified	Yttrium-90 for Transarterial Radioembolisation (TARE)	
GOBEP	V	$\overline{\checkmark}$		Timing of prehydration clarified, filter size specified	Therapy of Non-Dysgerminomatous Ovarian Germ Cell Cancer Using Bleomycin, Etoposide, and CISplatin	
GOSMCCRT	V	Ø		Hydration solutions changed to NS; electrolytes added to Tests	Treatment of Small Cell or Neuroendocrine Carcinoma of Gynecologic System Origin using PACLitaxel, CISplatin, Etoposide and CARBOplatin with Radiation	

NEW PROTOCOLS, PPPOS AND PATIENT HANDOUTS (AFFECTED DOCUMENTS ARE CHECKED)						
CODE	Protocol	PPPO	Patient Handout	Protocol Title		
UGUAVNIV	V			Tests and treatment duration clarified, minor typo corrected	Treatment of Metastatic or Advanced Renal Cell Carcinoma Using Nivolumab	
HNLACETRT	V	\square	Ø	CAP requirement deleted, magnesium infusion time revised	Combined Cetuximab and Radiation Treatment for Locally Advanced Squamous Cell Carcinoma of the Head and Neck	
HNNAVCAP	V	V	V	CAP requirement deleted	Treatment of Recurrent or Metastatic Nasopharyngeal Cancer With Capecitabine	
HNNAVPC	Ø		Ø	CAP requirement deleted	Treatment of Recurrent or Metastatic Nasopharyngeal Carcinoma with CARBOplatin and PACLitaxel	
LKATOATRA	V			CAP requirement deleted	First-Line Induction and Consolidation Therapy of Acute Promyelocytic Leukemia Using Arsenic Trioxide and Tretinoin	
LKATOP	$\overline{\mathbf{A}}$			CAP requirement deleted	First-Line Induction and Consolidation Therapy of Acute Promyelocytic Leukemia Using Arsenic Trioxide, Tretinoin and DAUNOrubicin	
LKATOR	V			CAP requirement deleted	Induction and Consolidation Therapy of Relapsed Acute Promyelocytic Leukemia Using Arsenic Trioxide	
ULKMDSA	V			Treatment duration updated	Therapy of Myelodysplastic Syndrome using azaCITIDine	
ULKMFRUX	$\overline{\mathbf{V}}$			Treatment duration updated	Treatment of Symptomatic Myelofibrosis with Ruxolitinib	
ULUAVNIV	$\overline{\mathbf{V}}$			Tests and treatment duration clarified, minor typo corrected	Treatment of Advanced Non-Small Cell Lung Cancel Using Nivolumab	
USMAVNIV	V			Tests, treatment duration and toxicities management clarified	Treatment of Unresectable or Metastatic Melanoma Using Nivolumab	
USMAVPEM	V			Tests clarified	Treatment of Unresectable or Metastatic Melanoma Using Pembrolizumab	
USMAVVEM	V			Cautions updated	Treatment of BRAF V600 Mutation-Positive Unresectable or Metastatic Melanoma Using vemURAFenib	

Website Resources and Contact Information					
WEBSITE RESOURCES	WWW.BCCANCER.BC.CA				
Systemic Therapy Update	www.bccancer.bc.ca/health-professionals/professional-resources/systemic-therapy/systemic-therapy-update				
Reimbursement & Forms: Benefit Drug List, Compassionate Access Program	www.bccancer.bc.ca/health-professionals/professional-resources/systemic-therapy				
Cancer Drug Manual	www.bccancer.bc.ca/health-professionals/professional-resources/cancer-drug-manual				
Cancer Management Guidelines	www.bccancer.bc.ca/health-professionals/professional-resources/cancer-management- guidelines				
Cancer Chemotherapy Protocols, Pre-Printed Orders, Protocol Patient Handouts	www.bccancer.bc.ca/health-professionals/professional-resources/chemotherapy-protocols				
Systemic Therapy Program Policies	www.bccancer.bc.ca/health-professionals/professional-resources/systemic-therapy				
CON Pharmacy Educators www.bccancer.bc.ca/health-professionals/professional-resources/pharmacy					

CONTACT INFORMATION	PHONE	FAX	EMAIL
Systemic Therapy Update Editor			bulletin@bccancer.bc.ca
Provincial Systemic Therapy Program	604-877-6000 x 672247		mlin@bccancer.bc.ca
To update contact information of any CON sites, ple	ease contact:		bulletin@bccancer.bc.ca
Oncology Drug Information	604-877-6275		druginfo@bccancer.bc.ca
Education Resource Nurse	604-877-6000 x 672638		nursinged@bccancer.bc.ca
Library/Cancer Information	604-675-8003 Toll Free 888-675-8001 x 8003		requests@bccancer.bc.ca
Pharmacy Professional Practice	604-877-6000 x 672247		mlin@bccancer.bc.ca
Nursing Professional Practice	604-877-6000 x 672623		ilundie@bccancer.bc.ca
OSCAR	888-355-0355	604-708-2051	oscar@bccancer.bc.ca
Compassionate Access Program (CAP)	604-877-6277	604-708-2026	cap_bcca@bccancer.bc.ca
Pharmacy Chemotherapy Certification	250-712-3900 x 686741		rxchemocert@bccancer.bc.ca
BCCA-Abbotsford Centre	604-851-4710 Toll Free 877-547-3777		
BCCA-Centre for the North	250-645-7300 Toll Free 888-775-7300		
BCCA-Fraser Valley Centre	604-930-2098 Toll Free 800-523-2885		
BCCA-Sindi Ahluwalia Hawkins Centre for the Southern Interior	250-712-3900 Toll Free 888-563-7773		
BCCA-Vancouver Centre	604-877-6000 Toll Free 800-663-3333		
BCCA-Vancouver Island Centre	250-519-5500 Toll Free 800-670-3322		

EDITORIAL REVIEW BOARD

Mario de Lemos, PharmD, MSc (Oncol) (Acting Editor) Caroline Lohrisch, MD Robert Crisp, BScPT, MBA Lorraine Leitz, MLS Ava Hatcher, RN, BN CONc Rob Watt, BSc(Pharm)