Volume 11, Number 1 for health professionals who care for cancer patients January 2008

Website access at <a href="http://www.bccancer.bc.ca/HPI/ChemotherapyProtocols/stupdate.htm">http://www.bccancer.bc.ca/HPI/ChemotherapyProtocols/stupdate.htm</a>

## INSIDE THIS ISSUE

- <u>Editor's Choice</u>: New Treatment Programs Adjuvant Imatinib for Gastrointestinal Stromal Tumour, Sorafenib for Hepatocellular Cancer, Cetuximab for Head and Neck Cancer
- Cancer Management Guidelines: Bisphosphonate-Related Osteonecrosis of the Jaw
- Cancer Drug Manual: New: Cetuximab Patient
  Handout; Complete Revision: Mitomycin; Limited
  Revision: Capecitabine, Clodronate, Pamidronate
  Acknowledgements
- Drug Update: Changes in Rituximab Packaging Colour
- List of New and Revised Protocols, Pre-Printed Orders and Patient Handouts: New: GIRINFRT, GIRCRT, GIRCAP, UHNCETRT, USAAJGI, UGISORAF Revised: BRAVA3 (BRAVA7), BRAVNAV, BRAVCAD, BRAVCAP, GIAJCAP, GIAVCAP, UGICAPIRI, UGICAPOX, UGICIRB, UGICOXB, HNFUP, LKCMLI, SAAVGI
- <u>Provincial Systemic Therapy Program Policies</u> –
   Physician Coverage for Medical Emergencies ("Hot Drugs") Policy (III-60) Cetuximab
- Communities Oncology Network: Survey of On-Line System for Cancer Drugs and Reimbursement (OSCAR)
- Website Resources

IN TOUCH phone list is provided if additional information is needed.

#### **EDITOR'S CHOICE**

# **NEW TREATMENT PROGRAMS**

The Provincial Systemic Therapy Program is pleased to announce the funding for a number of new treatment programs.

Tumour Group	Program	Special Application Process
Gastrointestinal	<b>Sorafenib</b> therapy for advanced hepatocellular carcinoma (UGISORAF)	CAP
Head and Neck	Combined <b>cetuximab</b> with radiation treatment for locally advanced squamous cell carcinoma of the head and neck (UHNCETRT)	CAP, SAP
Sarcoma	Adjuvant <b>imatinib</b> for high risk patients with resected gastrointestinal stromal tumours (USAAJGI)	CAP

CAP = BC Cancer Agency Compassionate Access Program

SAP = Health Canada Special Access Programme

# **CANCER MANAGEMENT GUIDELINES**

Management of Bisphosphonates-Related Osteonecrosis of the Jaw has been added to Supportive Care – Oral/Dental section (<a href="www.bccancer.bc.ca/HPI/CancerManagementGuidelines/SupportiveCare/Oral/">www.bccancer.bc.ca/HPI/CancerManagementGuidelines/SupportiveCare/Oral/</a>). This includes management guidelines information for the physician and dentists, as well as information for patients receiving these drugs for multiple myeloma or breast cancer.

## **CANCER DRUG MANUAL**

**Cetuximab Patient Handout** has been developed to coincide with the new treatment program for head and neck cancers (UHNCETRT). Expert review was provided by Drs. Sharlene Gill (GI Tumour Group), Stephen Chia (Head & Neck Tumour Group), and Barry Sheehan (Head and Neck Tumour Group).

**Mitomycin Monograph and Patient Handouts** have been completely revised. Expert review was provided by Drs. Sharlene Gill (Gastrointestinal Tumour Group) and David Stuart (Medical Oncologist, Burnaby General Hospital). Highlights of changes include:

- Monograph:
  - Side Effects: more details on possible pulmonary toxicity and hemolytic uremic syndrome
  - Parenteral Administration: dilution of standard doses into small volume mini-bags no longer recommended.
  - Dosage Guidelines: more details on dose adjustment for myelosuppression and renal dysfunction
- Patient Handouts:
  - *bladder handout*: lengthening the suggested time to restrict fluid intake prior to treatment, and the time to increase fluid intake after treatment
  - *injection handout*: addition of treatment-related fever to the side effects

**Chemotherapy Preparation and Stability Chart – Mitomycin** has been revised with the following:

• routine review and updating, expiry in syringe changed to 48 hours at room temperature or refrigerated

Capecitabine Monograph's Dose Modifications for Hand-Foot Skin Reactions has been changed to reflect current information in company product monograph.

Pamidronate and Clodronate Monographs and Patient Handouts have been modified to include reference to the new documents produced by oral oncology on osteonecrosis of the jaw caused by bisphosphonates.

Changes to the Cancer Drug Manual User's Guide The Solution Preparation and Compatibility section of drug monographs will no longer provide details on drug-drug compatibility for parenteral antineoplastic agents. Until now, this section has included limited compatibility information which had little practical use and could potentially pose a risk of misinterpretation. Readers will now be direct to consult a detailed reference for compatibility information.

**2007 Acknowledgements** The Cancer Drug Manual staff would like to thank the Editorial Board and the expert reviewers for sharing their time and expertise in support of the Manual throughout the year.

### **Editorial Board**

Clarissa Cheng, Pharmacist, Burnaby Hospital Ruth Pag Jeff Davis, Pediatric Oncologist, BC Children's Hospital Sanna Pe

Calay Drader, Nurse, BCCA Roberta Esau, Pharmacist, BC Children's Hospital

Karen Janes, Nurse, BCCA

Marianne Moore, Pharmacist, BCCA

Ruth Page, Nurse, BCCA Sanna Pellatt, Pharmacist, BCCA

Sheila Souliere, Medical Oncologist, BCCA Judy Sutherland, Medical Oncologist, BCCA Anna Tinker, Medical Oncologist, BCCA

# **Expert reviewers**

	- 10		
Joseph Connors	Michelle Johnson	Stephen Nantel	Judy Sutherland
Susan Ellard	Meg Knowling	Christina Parsons	Brian Thiessen
Donna Forrest	Christian Kollmannsburger	Tom Pickles	Kenneth Wilson
Sharlene Gill	Stephen Lam	John Shepherd	Adrian Yee
Jason Hart	Nevin Murray	Kevin Song	

The Cancer Drug Manual Editorial Board is currently looking for one medical oncologist board member. If you are interested in participating in this multi-disciplinary team, please contact Tanya Leduc, Acting Editor, Cancer Drug Manual, 25-519-5500, local 3742, tlduc@bccancer.bc.ca

Submitted by: Tanya Leduc, BSc(Pharm) Acting Editor On Behalf of Cancer Drug Manual Staff BC Cancer Agency

# DRUG UPDATE - RITUXIMAB PACKAGING COLOUR

**Special Caution – Change in Packaging Colour of Rituximab** (RITUXAN®) vials has recently changed from orange to white background by the manufacturer, Hoffman-La Roche. The strength is listed in orange and the rest of the text is in royal blue. Pharmacy staff should be alerted to the potential risk of medication error by confusing rituximab 500 mg vial with trastuzumab (HERCEPTIN®) 440 mg vial, also made by Hoffman-La Roche:

- both vials are of the same size and have similar labels
- after reconstitution, both vials are stored in the refrigerator
- if alphabetically filed, rituximab vial may end up next to trastuzumab vial on the shelf.

# 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 and revised protocols, PPPOs and patient handouts for this month are listed below. Protocol codes for treatments requiring "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				
GIRINFRT		V		Combined Modality Adjuvant Therapy for High Risk Rectal Carcinoma using Capecitabine, Infusional Fluorouracil and Radiation Therapy				
GIRCRT		V		Combined Modality Adjuvant Therapy for High Risk Rectal Carcinoma using Capecitabine and Radiation Therapy				
GIRCAP		V		Adjuvant Capecitabine Therapy for Stage II and III Rectal Cancer Previously Treated with Preoperative Radiotherapy				
UHNCETRT	$\square$	V		Combined Cetuximab with Radiation Treatment for Locally Advanced Squamous Cell Carcinoma of the Head And Neck				
USAAJGI	V	$\square$	V	Adjuvant Imatinib for High Risk Patients with Resected Gastrointestinal Stromal Tumours				
UGISORAF	V	V	V	Sorafenib Therapy for Advanced Hepatocellular Carcinoma				

# REVISED PROTOCOLS, PPPOS AND PATIENT HANDOUTS (AFFECTED DOCUMENTS ARE CHECKED):

CODE	Protocol	PPPO	Patient Handout	Changes	Protocol Title
BRAVA3 (BRAVA7)		V		Protocol code revised	Palliative Therapy for Metastatic Breast Cancer using Weekly Doxorubicin
BRAVNAV		V		Volume of flushing normal saline clarified	Palliative therapy for symptomatic metastatic breast cancer using Vinorelbine
BRAVCAD	Ø	V		Dose modifications for hand-foot syndrome and schedule for creatinine tests revised	Palliative Therapy for Metastatic Breast Cancer Using Docetaxel and Capecitabine
BRAVCAP	V	V		Dose modifications for hand-foot syndrome and schedule for creatinine tests revised	Therapy for Metastatic Breast Cancer Using Capecitabine
GIAJCAP	$\overline{\checkmark}$			Dose modifications for hand-foot syndrome revised	Adjuvant Therapy of Colon Cancer using Capecitabine
GIAVCAP	$\square$			Dose modifications for hand-foot syndrome revised	Palliative Therapy of Advanced Colorectal Cancer using Capecitabine
UGICAPIRI	$\square$			Dose modifications for hand-foot syndrome revised	Palliative Combination Chemotherapy for Metastatic Colorectal Cancer Using Irinotecan and Capecitabine in Patients Unsuitable for GIFOLFIRI
UGICAPOX	$\overline{\checkmark}$			Dose modifications for hand-foot syndrome revised	Palliative Combination Chemotherapy for Metastatic Colorectal Cancer Using Oxaliplatin, and Capecitabine.
UGICIRB	V			Dose modifications for hand-foot syndrome revised	Palliative Combination Chemotherapy for Metastatic Colorectal Cancer Using Irinotecan, Bevacizumab and Capecitabine
UGICOXB	V			Dose modifications for hand-foot syndrome revised	Palliative Combination Chemotherapy for Metastatic Colorectal Cancer Using Oxaliplatin, Bevacizumab and Capecitabine
HNFUP	Ø	$\square$		Radiation deleted, eligibility clarified, antiemetics and cisplatin dosing clarified	Advanced Head and Neck Cancer Using Cisplatin and Fluorouracil
LKCMLI				Annual bone marrow examination for cytogenetics deleted	Treatment of Chronic Myeloid Leukemia Using Imatinib (GLEEVEC®)
SAAVGI	V			Minor typo corrected	Treatment of Advanced c-kit positive Gastrointestinal Stromal Cell Tumours (GIST's) Using Imatinib (GLEEVEC®)

## PROVINCIAL SYSTEMIC THERAPY PROGRAM POLICIES

Physician Coverage for Medical Emergencies ("Hot Drugs") Policy (III-60) The time required for physician to remain on site after completion of cetuximab infusion has been extended from 30 minutes to 60 minutes, based on new information from the manufacturer's monograph.

# COMMUNITIES ONCOLOGY NETWORK: SURVEY OF THE ON-LINE SYSTEM FOR CANCER DRUGS AND REIMBURSEMENT (OSCAR)

In April 2005, the BCCA implemented a provincial on-line system for cancer drugs and reimbursement (OSCAR) for the Community Oncology Network (CON) hospital pharmacies. To improve future implementation process of similar projects, an end-user satisfaction survey was conducted in November 2006. Of 171 surveys distributed, 63 responses were received (37%).

# Pilot Sites

Prior to provincial roll out, seven hospitals participated in a pilot phase to work out practical use of the system. All sites described their involvement as positive. The majority stated they had the chance to recommend changes (83%) and that those changes were implemented (67%).

# Support Resources

Three resources were created to provide learning and support to CON staff during the provincial roll out of OSCAR:

- 1. OSCAR User Guide, which was a text-based manual. An e-copy of the manual was distributed to all CON sites, followed with the mailing of a hard copy.
- 2. OSCAR email address.
- 3. OSCAR telephone line.

A turnaround time of 24-48 hours was set as the standard in responding to questions via email or telephone.

Only 25% of respondents found the e-copy of the manual to be helpful. However, there was almost an even split between preference of using the OSCAR email address (51%) vs. telephone line (49%). Most respondents (78%) found responses to queries via email or telephone to be timely (benchmark: 24-48 hrs).

# **On-Site Activities**

After roll out, some CON sites requested a visit from BC Cancer Agency staff for support in learning. Over half of these sites (58%) found these visits to be helpful in understanding the system.

# **Overall Satisfaction**

A significant proportion of respondents (47%) found the implementation process unsatisfactory; 32% rated the process as satisfactory. Suggestions to improve the implementation process included:

- 1. working out more of the "bugs" prior to provincial roll-out
- 2. greater consultation with stakeholders
- 3. providing more training.

A number of responses referred to the positive and timely help given by the email and telephone support staff, and hands-on training. However, some also commented on the increased amount of human resources needed by CON sites during the implementation.

# Summary

Specific elements of the implementation process were met favourably by the survey respondents. These include the OSCAR email address, support telephone line, on-site activities, and the positive and timely help provided by the support resources. However, the overall implementation process was found to be less than satisfactory. Opportunities for improvement include more time to work on the system prior to roll-out,

well as more discussion with stakeholders and training provided to CON staff. Special thanks are extended to the participants of this survey who shared their comments on the implementation process.

Submitted by:

Nancy Coady, BSc(Pharm) Jeff Barnett, BSc(Pharm), MSc, FCSHP

Pharmacy CON Educator Director, Clinical Informatics
Vancouver Island Centre – BC Cancer Agency Cancer Care – BC Cancer Agency

# **WEBSITE RESOURCES**

The	following	are	available	on	the	BC	Cancer	Agency	website	(www.bccancer.bc.ca)	under	the	Health
Prof	essionals In	fo se	ction:										

REIMBURSEMENT AND FORMS: BENEFIT DRUG LIST,	www.bccancer.bc.ca/HPI/ChemotherapyProtocols/Forms		
CLASS II, COMPASSIONATE ACCESS PROGRAM			
(UNDESIGNATED INDICATION)			
CANCER DRUG MANUAL	www.bccancer.bc.ca/cdm		
CANCER MANAGEMENT GUIDELINES	www.bccancer.bc.ca/CaMgmtGuidelines		
CANCER CHEMOTHERAPY PROTOCOLS	www.bccancer.bc.ca/ChemoProtocols		
CANCER CHEMOTHERAPY PRE-PRINTED ORDERS	www.bccancer.bc.ca/ChemoProtocols under the index page of		
	each tumour site		
Systemic Therapy Program Policies	www.bccancer.bc.ca/HPI/ChemotherapyProtocols/Policies		
UNCONVENTIONAL CANCER THERAPIES MANUAL	under Patient/Public Info, Unconventional Therapies		

# **Editorial Review Board**

Mário de Lemos, PharmD, MSc(Oncol) (Editor)

Caroline Lohrisch, MD

Johanna Den Duyf, MA

Judy Oliver, BScN, MEd

Beth Morrison, MLS

Jaya Venkatesh, MHA, CMA

Susan Walisser, BSc (Pharm)

Gigi Concon (Editorial Assistant)

In Touch	www.bccancer.bc.ca	bulletin@bccancer.bc.ca
BC CANCER AGENCY	(604) 877-6000	Toll-Free 1-(800) 663-3333
COMMUNITIES ONCOLOGY NETWORK	Ext 2744	jvenkate@bccancer.bc.ca
EDUCATION RESOURCE NURSE	Ext 2638	nursinged@bccancer.bc.ca
NURSING PROFESSIONAL PRACTICE	Ext 2623	ilundie@bccancer.bc.ca
PHARMACY PROFESSIONAL PRACTICE	Ext 2247	gconcon@bccancer.bc.ca
PROVINCIAL SYSTEMIC THERAPY PROGRAM	Ext 2247	gconcon@bccancer.bc.ca
COMMUNITIES ONCOLOGY NETWORK PHARMACIST	Ext 6277	lkovacic@bcancer.bc.ca
DRUG INFORMATION	Ext 6275	druginfo@bccancer.bc.ca
LIBRARY/CANCER INFORMATION	1-(888)-675-8001	requests@bccancer.bc.ca
	Ext 8003	
OSCAR HELP DESK	,	oscar@bccancer.bc.ca
COMPASSIONATE ACCESS PROGRAM OFFICE	Fax (604) 708-2051	can beca@becaneer be ca
(FORMERLY UNDESIGNATED DRUG APPLICATION OFFICE)	Fax (604) 708-2026	cap bcca@bccancer.bc.ca
UPDATE EDITOR		mdelemos@bccancer.bc.ca
CENTRE FOR THE SOUTHERN INTERIOR (CCSI)	(250) 712-3900	Toll-Free 1-(888) 563-7773
FRASER VALLEY CENTRE (FVCC)	(604) 930-2098	Toll-Free 1-(800) 523-2885
VANCOUVER CENTRE (VCC)	(604) 877-6000	Toll-Free 1-(800) 663-3333
VANCOUVER ISLAND CENTRE (VICC)	(250) 519-5500	Toll-Free 1-(800) 670-3322