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Website access at http://www.bccancer.bc.ca/HPI/ChemotherapyProtocols/stupdate.htm

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

EDITOR'S CHOICE

CHANGE IN POLICY: VINCRISTINE PREPARED IN MINIBAG AND ADMINISTERED BY INFUSION

Effective December 1, 2007, Vincristine for Intravenous (IV) Administration will only be prepared in 50 mL minibags and given over 5-15 minutes by peripheral IV infusion or central venous catheter (CVC) device. This is one strategy recommended by the WHO (July 2007) to minimize the risk of inadvertent fatal intrathecal (IT) administration of vincristine. Similar recommendations were previously made by the Institute for Safe Medication Practices (ISMP) and the Commission on Accreditation of Healthcare Organizations (JCAHO) in the US. This practice change affects all vincristine-based chemotherapy protocols and pre-printed orders, as well as relevant BC Cancer Agency (BCCA) policies (see Cancer Drug Manual, Revised Protocols and PPPOs, Provincial Systemic Therapy Policies in this issue).

Risks Involving Vincristine Prepared in Syringes

The previous BCCA policy was to dilute vincristine to 20 mL of solution and dispense it in a 30-mL syringe. The larger solution and syringe volume was meant to deter accidental IT administration, since most IT chemotherapy is prepared in smaller volumes (e.g., 5-10 mL). However, this measure may be insufficient as the recent WHO alert reported the death of a patient after receiving inadvertent intrathecal vincristine prepared in a 20-mL syringe. This follows two previous fatal cases involving 10-mL or larger syringes. This follows two previous fatal cases involving 10-mL or larger syringes.

Risk of Extravasation

Vincristine is a vesicant and therefore extravasation may result in tissue damage. Vesicant drugs are usually prepared in a syringe for direct IV push (side arm) administration to minimize the risk of extravasation. However, recent data suggest that the incidence of vincristine extravasation and related injuries is low, whether it is dispensed in syringe (0.03%) or minibag (0.041%). This is probably due to better recognition of the risk factors for extravasation, training of oncology nurses, and other preventive measures.

Practice implications: Administration of Vincristine by Short Term Infusion

Vincristine should be administered as a secondary medication through the upper port of a free-flowing primary IV. The chemotherapy certified nurse should remain present with the patient during the infusion, assessing the integrity of the vein as per sidearm administration, and checking blood return every 2 minutes. The infusion must run to gravity and **not** run via an infusion pump.

While vincristine may be infused over 5-15 minutes, the BCCA recommendation is to infuse it over 10 minutes for adult patients. This closely replicates the existing process for giving vesicants via the side arm, providing opportunities for regular checking of the site while allowing for efficient administration of the drug. The Nursing Practice Reference C-252 (www.bccancer.bc.ca/HPI/Nursing/References/NursingBCCA/C-252) has been updated to reflect this change.

References

- 1. World Health Organization. Information Exchange System: Alert No. 115 (QSM/MC/IEA.115). Geneva, Switzerland: World Health Organization; 18 July 2007.
- 2. Institute for Safe Medication Practices. Fatal reports of intrathecal vincristine continue. ISMP Medication Safety Alert 2003;8(7):4.
- 3. Joint Commission on Accreditation of Healthcare Organizations. Preventing vincristine administration errors. Sentinel Event Alert 2005;14(34):1-3.
- 4. Alcaraz A, Rey C, Concha A, et al. Intrathecal vincristine: fatal myeloencephalopathy despite cerebrospinal fluid perfusion. J Toxicol Clin Toxicol 2002;40(5):557-61.
- 5. Gilbar PJ, Carrington CV. The incidence of extravasation of vinca alkaloids supplied in syringes or mini-bags. J Oncol Pharm Pract 2006;12(2):113-8.

CANCER DRUG MANUAL

Changes to Cancer Drug Manual Staff Tanya Leduc has assumed the responsibility of Acting Editor of the Cancer Drug Manual following the departure of Sarah Jennings from the BC Cancer Agency.

Tanya is a pharmacist at the Vancouver Island Centre and has been a writer for the manual since April 2006. Her new portfolio involves the management of the manual's daily operations, and she is the first point of contact for issues related to the manual. Mário de Lemos, previously the editor, is now the manual's Project Manager and is acting in an advisory capacity. James Conklin, clinical pharmacist from the Vancouver Centre and a writer for the manual, completes the current Cancer Drug Manual staff team. Tanya can be reached via email at tleduc@bccancer.bc.ca or by phone at 250-519-5500 extension 3742.

Dasatinib Monograph and Patient Handout: peer-reviewed versions are now posted. Expert review was provided by Dr. Donna Forrest (Leukemia/BMT Tumour Group). See November 2007 issue of the Systemic Therapy Update for further details.

Vincristine Monograph has been revised in the Parenteral Administration section (see Editor's Choice in this issue).

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

- oxaliplatin (Sanofi-Aventis): expiry of the diluted product has been extended to 48 hours at room temperature and 14 days when refrigerated
- dacarbazine: the caution to protect the diluted product from light has been reinstated based on further data
- vincristine: preparation has been revised (see Editor's Choice in this issue)

PROVINCIAL SYSTEMIC THERAPY PROGRAM POLICIES

Vincristine-Related Policies have all been revised to reflect changes in its preparation and administration (see Editor's Choice in this issue). This includes:

- Prevention and Management of Extravasation of Chemotherapy (Policy III-20): vincristine added to the list of vesicants to be mixed in minibag
- Administration of Cytotoxic Drugs by the Intrathecal Route (Policy III-50): title of Policy V-40 revised (see below) in cross-reference
- Labelling of Vinca Alkaloid Preparations (Policy V-40): title of policy and preparation of vincristine revised
- Administration of Chemotherapeutic Agents (Nursing Practice Reference C-252)

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	
BRAVA3		V	V	Palliative Therapy for Metastatic Breast Cancer using Weekly Doxorubicin	
GIGECF			V	Perioperative Treatment of Resectable Adenocarcinoma of the Stomach, Gastroesophageal Junction or Lower 1/3 Esophagus using Epirubicin, Cisplatin and Infusional Fluorouracil	
GIRINFRT	V			Combined Modality Adjuvant Therapy for High Risk Rectal Carcinoma using Capecitabine, Infusional Fluorouracil and Radiation Therapy	
GIRCRT	\square			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	
ULUPAC	V	V	V	Treatment of Thymoma with Platinum, Doxorubicin, and Cyclophosphamide	

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

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CODE	Protocol	PPPO	Patient Handout	Changes	Protocol Title
BRAJACTT		Ø		minor typo deleted in dosing section	Adjuvant Therapy for Breast Cancer using Doxorubicin and Cyclophosphamide followed by Paclitaxel and Trastuzumab
BRAVCAP	V			Eligibility changed to include first line use, cardiac precaution added	Therapy for Metastatic Breast Cancer Using Capecitabine
BRAVGEMD		Ø		check box added for dexamethasone premedication	Palliative Therapy for Metastatic Breast Cancer using Gemcitabine and Docetaxel

CODE	Protocol	PPPO	Patient Handout	Changes	Protocol Title	
BRAVNAV	\square			treatment duration clarified	Palliative Therapy for Metastatic Breast Cancer using Vinorelbine	
CNAJTZRT		Ø		lab tests clarified	Concomitant and Adjuvant Temozolomide for Newly Diagnosed Malignant Gliomas with Radiation	
UGIFOXXB		V		check box deleted from urine analysis	Palliative Combination Chemotherapy for Metastatic Colorectal Cancer Using Oxaliplatin, 5- Fluorouracil, Folinic Acid (Leucovorin) and Beyacizumab	
GIFURRT	V	Ø		replaced by capecitabine-based protocol (GIRINFRT)	Combined Modality Adjuvant Therapy for High Risk Rectal Carcinoma using Fluorouracil, Folinic Acid (Leucovorin) and Radiation Therapy	
GIFURCRT	V	Ø		replaced by capecitabine-based protocol (GIRCRT)	Combined Modality Adjuvant Therapy for High Risk Rectal Carcinoma using Fluorouracil, Folinic Acid (Leucovorin), Capecitabine and Radiation Therapy	
GIRFF	V	Ø		replaced by capecitabine-based protocol (GIRCAP)	Adjuvant Therapy for Stage II and III Rectal Cancer Previously Treated with Preoperative Radiotherapy	
LYIT		Ø		lab work is required weekly, not before each treatment	Treatment of Lymphoma using Intrathecal Methotrexate and Cytarabine	
ULYRMTN	V			eligibility revised	Maintenance Rituximab for Indolent Lymphoma	
SADTIC	V	V		dilution volume for Dacarbazine clarified	High Dose Single Agent Dacarbazine (DTIC) for Metastatic Soft Tissue Sarcoma	
SMDTIC		V		dilution volume for Dacarbazine clarified	Palliative Therapy for Metastatic Malignant Melanoma Using High Dose Dacarbazine (DTIC)	
DEVICED Vivianiative Devices and DDDOs (AFFECTED DOSUMENTS ADE OUTSIVED).						

REVISED VINCRISTINE-RELATED PROTOCOLS AND PPPOS (AFFECTED DOCUMENTS ARE CHECKED):

CODE	Protocol	PPPO	Patient Handout	Changes	Protocol Title
CNCCV	I			Preparation and administration of vincristine changed	Adjuvant Lomustine, Cisplatin And Vincristine In Adult High-Risk Medulloblastoma Or Other Primitive Neuroectodermal Tumour
CNMODPCV	V	Ø		Preparation and administration of vincristine changed	Modified PCV Chemotherapy Of Brain Tumours Using Procarbazine, Lomustine (CCNU) and Vincristine
KSVB	V	Ø		Preparation and administration of vincristine changed	Therapy for Kaposi's Sarcoma Using Vinblastine- Vincristine

CODE	Protocol	PPPO	Patient Handout	Changes	Protocol Title
LUALTL	V	V		Preparation and administration of vincristine changed	Therapy For Limited Stage SCLC Using Alternating CAV/EP Plus Early Thoracic Irradiation Using Cyclophosphamide, Doxorubicin, Vincristine, Etoposide And Cisplatin
LUCAV	V			Preparation and administration of vincristine changed	Treatment for extensive small cell lung cancer (SCLC) with cyclophosphamide, doxorubicin and vincristine (CAV)
LUPAVESE	V			Preparation and administration of vincristine changed	Treatment For Extensive Stage Small Cell Lung Cancer (SCLC) With Cisplatin, Doxorubicin, Vincristine And Etoposide (PAVE)
LUPAVESL	\square	\square		Preparation and administration of vincristine changed	Treatment For Limited Stage Small Cell Lung Cancer (SCLC) With Cisplatin, Doxorubicin, Vincristine And Etoposide (PAVE), And Cisplatin And Etoposide (EP) Concurrent With Early Thoracic Irradiation
LYCHOP	$\overline{\checkmark}$			Preparation and administration of vincristine changed	Treatment of Lymphoma with Doxorubicin, Cyclophosphamide, Vincristine and Prednisone
LYCHOPR	V	Ø		Preparation and administration of vincristine changed	Treatment of Lymphoma with Doxorubicin, Cyclophosphamide, Vincristine, Prednisone and Rituximab
LYCVP	V	Ø		Preparation and administration of vincristine changed	Treatment Of Advanced Indolent Lymphoma Using Cyclophosphamide, Vincristine And Prednisone
LYCVPPABO	$\overline{\mathbf{A}}$	Ø		Preparation and administration of vincristine changed	Treatment of Hodgkin's Disease with Cyclophosphamide, Vinblastine, Procarbazine And Prednisone
LYCVPR	V	Ø		Preparation and administration of vincristine changed	Treatment of Advanced Indolent Lymphoma using Cyclophosphamide, Vincristine, Prednisone and Rituximab (CVP-R)
SAVAC	V	Ø		Preparation and administration of vincristine changed	Adjuvant Therapy For Newly Diagnosed Ewing's Sarcoma/Peripheral Neuroectodermal Tumor (PNET) Or Rhabdomyosarcoma Using Vincristine, Doxorubicin And Cyclophosphamide
SAVACM	V	\square		Preparation and administration of vincristine changed	Therapy For Newly Diagnosed Ewing's Sarcoma/Peripheral Neuroectodermal Tumor (PNET) And Rhabdomyosarcoma With Pelvic Primaries Or Chemotherapy Induced Hematuria Using Vincristine, Doxorubicin And Cyclophosphamide

COMMUNITIES ONCOLOGY NETWORK

Social Workers on the Web There is new information on the Community Oncology Network webpage (http://www.bccancer.bc.ca/RS/Communitiesoncologynetwork/cservices/default.htm).

Patients and family members, along with health care providers, will now have contact information for community social workers at the tip of their fingers by simply "clicking" on any of the communities on the map of British Columbia.

WEBSITE RESOURCES

The following are available on the BC Cancer Agency website (www.bccancer.bc.ca) under the Health Professionals Info section:

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		

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VANCOUVER ISLAND CENTRE (VICC)	(250) 519-5500	Toll-Free 1-(800) 670-3322