



For Health Professionals Who Care For Cancer Patients

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- **Website Resources and Contact Information**

EDITOR'S CHOICE

NEW PROGRAMS

Effective 1 February 2018, the BC Cancer Provincial Systemic Therapy Program has approved the following programs.

Gastrointestinal and Lung:

Everolimus for Advanced Neuroendocrine Tumours of Gastrointestinal (UGINETEVE) and Lung Origins (ULUNETEVE) – The BC Cancer Gastrointestinal and Lung Tumour Groups are introducing everolimus for well differentiated, non-functional neuroendocrine tumours (NET) of either gastrointestinal or lung origin. Patients should have unresectable, locally advanced or metastatic disease. In a phase III trial, everolimus was associated with improved overall survival (25.8 vs. 20.2 mos) and progression free survival (11.0 vs. 3.9 mos) and a trend towards better overall survival compared to placebo. The most common toxicities were stomatitis, rash, diarrhea, hyperglycemia, thrombocytopenia and infection. Note that for the rare cases of NET of unknown primary or other origins, patients will be treated under the UGINETEVE protocol.

Reference:

Yao JC, et al. Everolimus for the treatment of advanced, non-functional neuroendocrine tumours of the lung or gastrointestinal tract (RADIANT-4): a randomised, placebo-controlled, phase 3 study. *Lancet* 2016;387:968–77.

Lung:

Pembrolizumab for Advanced Non-Small Cell Lung Cancer (NSCLC) (ULUAVPMBF, ULUAVPMB) – The BC Cancer Lung Tumour Group is introducing pembrolizumab as the new immunotherapy for patients with advanced NSCLC. Tumour histology should be negative for EGFR mutation and ALK mutation, as well as positive for PD-L1 expression.

In the first-line setting, pembrolizumab has been shown to improve overall survival at 6 months (80.2% vs. 72.4%, hazard ratio 0.60) and median progression free survival (10.3 vs. 6.0 mos) compared to conventional chemotherapy.¹ In the second-line setting, pembrolizumab was also associated with increased overall survival (14.9 vs. 8.2 mos) and progression free survival (5.0 vs. 4.1 mos) compared to docetaxel in patients with who have failed platinum-based chemotherapy.² Toxicities are similar to those seen when pembrolizumab is used for other indications.

References:

1. Reck M, et al. Pembrolizumab versus chemotherapy for PD-L1-positive non-small cell lung cancer. *N Engl J Med* 2016;375:1823-3.
2. Herbst RS, et al. Pembrolizumab versus docetaxel for previously treated, PD-L1-positive, advanced non-small cell lung cancer (KEYNOTE-010): a randomised controlled trial. *Lancet*.2016;387(10027):1540-50.

Head and Neck:

Paclitaxel and Platinum for Advanced Squamous Cell Cancer of the Head and Neck (SCCHN) (HNAVPC) – The BC Cancer Head and Neck Tumour Group is introducing paclitaxel and cisplatin or carboplatin as an alternate first-line treatment for patients with unresectable, locoregionally recurrent or metastatic SCCHN. Studies have shown that this regimen is associated with response rate of 26-39% with a median overall survival of 7-8 months.¹⁻³

References:

1. Gibson MK, et. al. Randomized phase III evaluation of cisplatin plus fluorouracil versus cisplatin plus paclitaxel in advanced head and neck cancer (E1395): An intergroup trial of the Eastern Cooperative Oncology Group. *J Clin Oncol* 2005;23(15):3562-7.
2. Stathopoulos GP, et. al. Effectiveness of paclitaxel and carboplatin combination in heavily pretreated patients with head and neck cancers. *Eur J Cancer* 1997;33(11):1780-83.
3. Clark JI, et. al. Phase II evaluation of paclitaxel in combination with carboplatin in advanced head and neck carcinoma. *Cancer* 2001;92:2334-2340.

Leukemia/Bone Marrow Transplant (BMT):

Ruxolitinib for Polycythemia Vera (ULKPCVRUX) – The Leukemia/BMT Group is introducing ruxolitinib as a treatment for polycythemia vera. This treatment option is for patients with disease resistant to hydroxyurea (greater than 2 g/day dose for 3 months) or with severe intolerance to hydroxyurea (e.g., leg ulcer, grade 3 or 4 toxicities). In a phase III trial, ruxolitinib compared to best supportive care was associated with a higher rate of reduction in spleen volume and hematocrit control without the need for phlebotomy (20.9% vs. 0.9%). There were also a better complete hematological response (23.6% vs. 8.9%) and improvement in quality of life. Common toxicities include anemia, thrombocytopenia, and increased incidence of herpes zoster infections.

Reference:

- Vannucchi AM, et al. Ruxolitinib versus standard therapy for the treatment of polycythemia vera. *N Engl J Med* 2015;372:426-35.

REVISED MONOGRAPHS AND PATIENT HANDOUTS

Clodronate Monograph

- *Side Effects:* updated paragraph about osteonecrosis of the jaw

Pamidronate Monograph

- *Side Effects:* updated paragraph about osteonecrosis of the jaw
- *Dosing:* updated BC Cancer standard regimens and protocols

Zoledronic acid Monograph

- *Dosing:* updated BC Cancer standard regimens and protocols

Thalidomide Monograph

- *Dosing:* remove instructions for opening capsules for patients who cannot swallow (no longer recommended)

Lenalidomide Monograph

- *Cautions:* add thyroid toxicity and monitoring
- *Side Effects:* add DRESS syndrome, Stevens-Johnson syndrome, toxic epidermal necrolysis, and thyroid toxicity

Paclitaxel Monograph

- *Supply and Storage:* updated available brands
- *Parenteral Administration:* add recommendation regarding inline filter

Paclitaxel Patient Handout

- remove detailed premedication bullet as instructions no longer consistent with BC Cancer protocols

Ponatinib Monograph

- *Supply and Storage:* delete 45 mg tablet as no longer marketed

EDITORIAL BOARD CHANGES

The Cancer Drug Manual writing team would like to bid farewell to our writer **Amber Tew** who will be returning to her pharmacist position at the Sindi Ahluwalia Hawkins Centre for the Southern Interior in Kelowna. The team would like to thank Amber for her many contributions during her tenure. We would also like to extend a warm welcome to the new writer **Lisa Wanbon** who is a clinical pharmacist at the BC Cancer Vancouver Island Centre in Victoria. Welcome Lisa!

The Cancer Drug Manual writing team would also like to bid farewell to exiting board member **Clarissa Cheng** (Clinical Pharmacy Specialist - Oncology Pharmacist, Burnaby Regional Cancer Centre) as she steps down from the Editorial Review Board. The team would like to thank Clarissa for her many contributions during her years of service on the Board and we wish her all the best in her future endeavours.

Provincial Systemic Therapy Program

REVISED POLICY OF TREATMENT DELIVERY PROCESS (III-10)

The BC Cancer Provincial Systemic Therapy Program has updated the policy on the treatment delivery process (Systemic Therapy Policy III-10) effective 1 February 2018. Answers to some of the frequently asked questions are as below:

1. What is Policy III-10?

- Policy III-10 defines the standards and processes for health care providers involved in providing systemic cancer drug treatments, to ensure the safe prescribing and assessment, preparation, dispensing and administration of oncology drug treatments to BC Cancer patients. It is developed in accordance with Accreditation Canada standards, provincially legislated requirements, approved BC Cancer policies, the BC Cancer tumour group protocols, and medical oncology/radiation oncology clinical trials.

2. How was Policy III-10 reviewed?

- An interdisciplinary working group (physicians, nurses and pharmacists) was created under the direction of BC Cancer Provincial Systemic Therapy Program to review and update Policy III-10 to reflect current practice and standards.
- The draft document then underwent several rounds of review by BC Cancer Professional Practice Groups (Medicine, Nursing and Pharmacy) and Committees (Medication Safety Subcommittee, Provincial Systemic Therapy Program Committee, Quality Council and Medical Advisory Council).
- The revised policy has been endorsed by the BC Cancer Systemic Therapy Program Committee and Quality Council.

3. How will the Clinical System Transformation (CST) Project affect Policy III-10?

- The overarching principles of safe systemic therapy delivery outlined in Policy III-10 should be applicable to all cancer centres regardless of the adoption of computerized prescriber order entry and closed-loop medication management processes.
- While the revised Policy III-10 will be used to inform CST build, CST design and resulting workflow changes will also impact future direction of systemic therapy delivery. Policy III-10 is subject to change as per CST development.

4. To whom does the policy apply?

- The policy is in effect throughout BC Cancer centres. It has not been designed for use in any other healthcare institution. While BC Cancer has a provincial mandate with respect to the development of high standards of patient care, it has no jurisdiction over the delivery of patient care in any other healthcare institution. The use of this policy by any other healthcare institution to direct patient care is the sole responsibility of that institution.

5. What are some of the changes to Policy III-10?

- See table below.

Provincial Systemic Therapy Program

| Category | Change |
|--|---|
| Overall Format | How information is presented to improve flow |
| Terminology | Introduction of the term “Cancer Drug Treatments” to encompass chemotherapy, immunotherapy, hormonal therapy etc. |
| Highlight of changes to individual sections | |
| Authorized prescribers | Whole section updated |
| Prescription requirements | <p>Whole section updated with consideration to Accreditation Canada requirements, other best practice standards and recent BC Cancer policy changes, e.g.</p> <ul style="list-style-type: none"> • Linkage with: <ul style="list-style-type: none"> ○ New BC Cancer Medication Order Requirements ○ BC Cancer Allergy Status documentation policy • Telephone orders: <ul style="list-style-type: none"> ○ Added details to comply with Accreditation Standard • Fax prescription: New language |
| Prescription order form section | <p>Height and Weight</p> <ul style="list-style-type: none"> • Updated to meet Accreditation language • Added details regarding frequency of review and what is considered significant weight change where dosing reassessment should be considered. <p>Body Surface Area (BSA)</p> <ul style="list-style-type: none"> • Round to two decimal places (CST build) <p>BSA and Weight based dosing, clarified:</p> <ul style="list-style-type: none"> • When dosing recalculation is required based on weight change • 5 % variance allowance refers to dose calculation check |
| Laboratory/Diagnostic test requirements | Updated the wording of whole section |
| Follow-up requirements | <ul style="list-style-type: none"> • Created new section. • Added linkage to Patient Safety Learning System (PSLS) process for reporting adverse drug reactions |
| Prescriber process | <ul style="list-style-type: none"> • Reformatted this section to make prescriber process and responsibilities clearer. • Added note about pregnancy status assessment. |
| Pharmacy and Nursing Processes | <ul style="list-style-type: none"> • Combined pharmacy and nursing sections as many checking steps are identical. • Separated out discipline specific requirements as appropriate |
| Patient Education and Information Process | <ul style="list-style-type: none"> • Updated language and website links • What’s new: <ul style="list-style-type: none"> ○ Statement: “Information about medications is discussed with patients and documented prior to the initial dose and when the dose is adjusted.” (Accreditation Canada Standard) ○ Link to new guidelines for handling cancer drugs and body fluids in the home. |

BENEFIT DRUG LIST

NEW PROGRAMS

Effective 1 February 2018, these treatment programs have been added to the BC Cancer [Benefit Drug List](#):

| Protocol Title | Protocol Code | Benefit Status |
|--|-------------------|-------------------|
| Treatment of advanced neuroendocrine tumours of gastrointestinal origin (non-functional) using everolimus | UGINETE V | Restricted |
| Treatment of platinum resistant epithelial ovarian cancer with bevacizumab and gemcitabine | UGOOVBE VG | Restricted |
| Treatment of platinum resistant epithelial ovarian cancer with bevacizumab and vinorelbine | UGOOVBE VV | Restricted |
| Treatment for unresectable, locoregionally recurrent or metastatic squamous cell carcinoma of the head and neck using paclitaxel and cisplatin or carboplatin | HNAV PC | Class I |
| Treatment of polycythemia vera with ruxolitinib | ULKPCV RUX | Restricted |
| First-line treatment of advanced non-small cell lung cancer using pembrolizumab | ULUAVP MBF | Restricted |
| Second-line treatment of advanced non-small cell lung cancer using pembrolizumab | ULUAVP MB | Restricted |
| Treatment of advanced neuroendocrine tumours of lung origin (non-functional) using everolimus | ULUNETE V | Restricted |

REVISED PROGRAMS

Effective 1 February 2018, the benefit status of the following treatment programs have been revised:

| Protocol Title | Protocol Code | Benefit Status |
|--|-----------------|------------------------------------|
| Treatment of acute bone pain secondary to breast cancer metastases using IV zoledronic acid | BRAV ZOL | Class I (Previously Restricted) |

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

BC Cancer 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 BC Cancer 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 |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|
| UGINETE V | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Treatment of advanced neuroendocrine tumours of gastrointestinal origin (non-functional) using everolimus |

NEW PROTOCOLS, PPPOs AND PATIENT HANDOUTS (AFFECTED DOCUMENTS ARE CHECKED)

| CODE | Protocol | PPPO | Patient Handout | Protocol Title |
|-----------|-------------------------------------|-------------------------------------|-------------------------------------|---|
| UGOOVBEVG | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Treatment of platinum resistant epithelial ovarian cancer with bevacizumab and gemcitabine |
| UGOOVBEVV | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Treatment of platinum resistant epithelial ovarian cancer with bevacizumab and vinorelbine |
| HNAVPC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Treatment for unresectable, locoregionally recurrent or metastatic squamous cell carcinoma of the head and neck using paclitaxel and cisplatin or carboplatin |
| ULKPCVRUX | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Treatment of polycythemia vera with ruxolitinib |
| ULUAVPMBF | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | First-line treatment of advanced non-small cell lung cancer using pembrolizumab |
| ULUAVPMB | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Second-line treatment of advanced non-small cell lung cancer using pembrolizumab |
| ULUNETEV | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Treatment of advanced neuroendocrine tumours of lung origin (non-functional) using everolimus |

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

| CODE | Protocol | PPPO | Patient Handout | Changes | Protocol Title |
|-----------|-------------------------------------|-------------------------------------|-------------------------------------|--|--|
| BRAJAC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <i>General revision for consistency</i> | Adjuvant therapy for breast cancer using doxorubicin and cyclophosphamide |
| BRAVZOL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>CAP requirement deleted</i> | Treatment of acute bone pain secondary to breast cancer metastases using IV zoledronic acid |
| GIFOLFIRI | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Minor typo corrected</i> | Palliative combination chemotherapy for metastatic colorectal cancer using irinotecan, fluorouracil and leucovorin |
| GIFUC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Infusion device standardized, institution logo and name updated</i> | Palliative chemotherapy for upper gastrointestinal tract cancer (gastric, esophageal, gall bladder, pancreas carcinoma and cholangiocarcinoma) and metastatic anal using infusional fluorouracil and cisplatin |
| UGIPNEVER | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <i>Exclusion, prophylaxis, toxicity, references, institution name and logo updated; tests standardized</i> | Palliative treatment of advanced pancreatic neuroendocrine tumours using everolimus |
| GOENDAI | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Eligibility clarified</i> | Advanced therapy for endometrial cancer using an aromatase inhibitor |
| GOTDLR | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Tests clarified</i> | Therapy for low risk gestational trophoblastic cancer using dactinomycin and methotrexate |
| GOSADG | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Tests clarified</i> | Treatment of uterine sarcoma cancer using docetaxel and gemcitabine |

| REVISED PROTOCOLS, PPPOs AND PATIENT HANDOUTS (AFFECTED DOCUMENTS ARE CHECKED) | | | | | |
|--|-------------------------------------|-------------------------------------|--------------------------|---|--|
| CODE | Protocol | PPPO | Patient Handout | Changes | Protocol Title |
| HNLACETRT | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Tests and monitoring clarified</i> | Combined cetuximab and radiation treatment for locally advanced squamous cell carcinoma of the head and neck |
| HNLAPRT | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Tests clarified</i> | Combined chemotherapy cisplatin and radiation treatment for locally advanced squamous cell carcinoma of the head and neck |
| HNNAVPC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Tests and dose modifications clarified</i> | Recurrent or metastatic nasopharyngeal carcinoma with carboplatin and paclitaxel |
| HNNLAPRT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>TMN staging removed</i> | Treatment of locally advanced nasopharyngeal cancer with concurrent cisplatin and radiation |
| UHNOTLEN | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Eligibility and tests clarified</i> | Therapy for locally recurrent or metastatic, RAI-refractory differentiated thyroid cancer using lenvatinib |
| LUAVDC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Eligibility clarified</i> | First-line treatment of advanced non-small cell lung cancer with cisplatin and docetaxel |
| LUAVERL | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Title and eligibility clarified</i> | Second- or third-line treatment of advanced non-small cell lung cancer with erlotinib |
| ULUAVNIV | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Exclusions clarified</i> | Treatment of advanced non-small cell lung cancer using nivolumab |
| LUAVNP | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Eligibility updated</i> | Treatment for advanced non-small cell lung cancer with cisplatin and vinorelbine |
| LUAVPC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Eligibility updated</i> | First-line treatment of advanced non-small cell lung cancer with carboplatin and paclitaxel |
| LUAVPEM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Title and eligibility clarified</i> | Second-line treatment of advanced non-small cell lung cancer with pemetrexed |
| LUAVPG | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Eligibility updated</i> | Treatment of advanced non-small cell lung cancer with platinum and gemcitabine |
| LUAVPP | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Eligibility updated</i> | First-line treatment of advanced non-small cell lung cancer with platinum and pemetrexed |
| LUAVVIN | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Eligibility updated</i> | Treatment of advanced non-small cell lung cancer with vinorelbine in elderly patients |
| ULKMSA | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Minor formatting</i> | Therapy of myelodysplastic syndrome using azacitidine |
| LYCHOPR | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Minor typo corrected</i> | Treatment of lymphoma with doxorubicin, cyclophosphamide, vincristine, prednisone and rituximab |
| LYCHOPRMTX | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Minor typo corrected</i> | Central nervous system prophylaxis with high dose methotrexate, CHOP and rituximab in diffuse large B-cell lymphoma |
| ULYFIBRU | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Tests clarified</i> | Treatment of previously untreated chronic lymphocytic leukemia or small lymphocytic lymphoma with chromosome 17 p deletion using ibrutinib |
| ULYIBRU | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Tests clarified</i> | Treatment of relapsed/refractory chronic lymphocytic leukemia or small lymphocytic lymphoma using ibrutinib |
| ULYIDELAR | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>Space for height and weight added</i> | Treatment of relapsed/refractory chronic lymphocytic leukemia or small lymphocytic lymphoma using idelalisib and rituximab |

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

| CODE | Protocol | PPPO | Patient Handout | Changes | Protocol Title |
|-------|--------------------------|-------------------------------------|--------------------------|------------------|--|
| SMIMI | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Minor formatting | Topical immunotherapy for in-transit melanoma metastases, cutaneous lymphoma, basal cell carcinoma using imiquimod |

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