Regimen Monograph

 Regimen Name
 Drug Regimen
 Cycle Frequency
 Premedication and Supportive Measures
 Dose Modifications
 Adverse

 Effects
 Interactions
 Drug Administration and Special Precautions
 Recommended Clinical Monitoring
 Administrative

 Information
 References
 Other Notes
 Disclaimer

A - Regimen Name

CAV Regimen

Cyclophosphamide-ADRIAMYCIN® (DOXOrubicin)-VinCRIStine

Disease Site Lung - Thymoma

Intent Palliative

Regimen Category

Evidence-Informed:

Regimen is considered appropriate as part of the standard care of patients; meaningfully improves outcomes (survival, quality of life), tolerability or costs compared to alternatives (recommended by the Disease Site Team and national consensus body e.g. pan-Canadian Oncology Drug Review, pCODR). Recommendation is based on an appropriately conducted phase III clinical trial relevant to the Canadian context OR (where phase III trials are not feasible) an appropriately sized phase II trial. Regimens where one or more drugs are not approved by Health Canada for any indication will be identified under Rationale and Use.

Rationale and Uses

For the treatment of metastatic thymoma

B - Drug Regimen			
<u>cyclophosphamide</u>	800 mg /m²	IV	Day 1
DOXOrubicin	50 mg /m²	IV	Day 1
vinCRIStine	1.4 mg /m²	IV (maximum 2 mg)	Day 1
back to top			

C - Cycle Frequency

REPEAT EVERY 21 DAYS

Until disease progression or unacceptable toxicity, or limited by cardiotoxicity risk

back to top

D - Premedication and Supportive Measures

Antiemetic Regimen: High

Other Supportive Care:

Also refer to CCO Antiemetic Summary

back to top

E - Dose Modifications

Doses should be modified according to the protocol by which the patient is being treated. The following recommendations are in use at some centres.

Dosage with toxicity

<u>Hematologic Toxicities:</u> See <u>general recommendations</u>.

Dosage for Neuropathy:

Symptom	Vincristine (% usual dose)
Areflexia only	100%
Abnormal buttoning, writing	67%
Moderate motor neuropathy (± cranial)	Hold until recovery then reduce dose by 50%
Severe motor neuropathy	OMIT

Hepatic Impairment

Bilirubin	Dose
1-2 x ULN	REDUCE Vincristine to 50% dose and REDUCE Doxorubicin to 50% dose
2-4 x ULN	REDUCE Vincristine to 25% dose and REDUCE Doxorubicin to 25% dose
> 4 x ULN	STOP treatment with Doxorubicin

Renal Impairment

If CrCl < 0.3mL/sec: **REDUCE** Cyclophosphamide* to **50%** dose (suggested)

back to top

F - Adverse Effects

Refer to <u>cyclophosphamide</u>, <u>DOXOrubicin</u>, <u>vinCRIStine</u> drug monograph(s) for additional details of adverse effects

Most Common Side Effects	Less Common Side Effects, but may be Severe or Life-Threatening
 Nausea, vomiting Increased LFTs Alopecia Anorexia, weight loss Constipation Diarrhea Myelosuppression +/- infection, bleeding Peripheral neuropathy (may be severe) Rash 	 Arterial thromboembolism Venous thromboembolism Cardiotoxicity GI perforation Hypersensitivity Pancreatitis Pneumonitis SIADH Prolonged QTc Tumour lysis syndrome

G - Interactions

Refer to cyclophosphamide, DOXOrubicin, vinCRIStine drug monograph(s) for additional details

back to top

H - Drug Administration and Special Precautions

Refer to cyclophosphamide, DOXOrubicin, vinCRIStine drug monograph(s) for additional details

back to top

I - Recommended Clinical Monitoring

Treating physicians may decide to monitor more or less frequently for individual patients but should always consider recommendations from the product monograph.

Recommended Clinical Monitoring

- CBC; baseline and before each cycle
- Baseline and regular liver function tests
- Baseline and regular renal function tests and urinalysis
- Cardiac examination especially with risk factors (including prior therapy with epirubicin, mitoxantrone, or other cardiotoxic drug), or a cumulative doxorubicin dose of > 450 mg/m²
- Clinical toxicity assessment (including stomatitis, neurotoxicity, cardiotoxicity, local toxicity); at each visit
- Grade toxicity using the current <u>NCI-CTCAE</u> (Common Terminology Criteria for Adverse Events) version

back to top

J - Administrative Information

Approximate Patient Visit 1.5 hours

Pharmacy Workload (average time per visit) 36.054 minutes

Nursing Workload (average time per visit) 51.667 minutes

K - References

Cyclophosphamide, doxorubicin, vincristine drug monographs, Cancer Care Ontario.

Kosmidis P, Iliopolous E, Pentea S. Combination chemotherapy with cyclophosphamide, adriamycin and vincristine in malignant thymoma and myasthenia gravis. Cancer 1988. 61:1736.

July 2019 Updated hyperlink to vincristine drug monograph

back to top

M - Disclaimer

Regimen Abstracts

A Regimen Abstract is an abbreviated version of a Regimen Monograph and contains only top level information on usage, dosing, schedule, cycle length and special notes (if available). It is intended for healthcare providers and is to be used for informational purposes only. It is not intended to constitute or be a substitute for medical advice, and all uses of the Regimen Abstract are subject to clinical judgment. Such information is provided on an "as-is" basis, without any representation, warranty, or condition, whether express, or implied, statutory or otherwise, as to the information's quality, accuracy, currency, completeness, or reliability, and Cancer Care Ontario disclaims all liability for the use of this information, and for any claims, actions, demands or suits that arise from such use.

Information in regimen abstracts is accurate to the extent of the ST-QBP regimen master listings, and has not undergone the full review process of a regimen monograph. Full regimen monographs will be published for each ST-QBP regimen as they are developed.

Regimen Monographs

Refer to the <u>New Drug Funding Program</u> or <u>Ontario Public Drug Programs</u> websites for the most up-to-date public funding information.

The information set out in the drug monographs, regimen monographs, appendices and symptom management information (for health professionals) contained in the Drug Formulary (the "Formulary") is intended for healthcare providers and is to be used for informational purposes only. The information is not intended to cover all possible uses, directions, precautions, drug interactions or adverse effects of a particular drug, nor should it be construed to indicate that use of a particular drug is safe, appropriate or effective for a given condition. The information in the Formulary is not intended to constitute or be a substitute for medical advice and should not be relied upon in any such regard. All uses of the Formulary are subject to clinical judgment and actual prescribing patterns may not follow the information provided in the Formulary.

The format and content of the drug monographs, regimen monographs, appendices and symptom management information contained in the Formulary will change as they are reviewed and revised on a periodic basis. The date of last revision will be visible on each page of the monograph and regimen. Since standards of usage are constantly evolving, it is advised that the Formulary not be used as the sole source of information. It is strongly recommended that original references or product monograph be consulted prior to using a chemotherapy regimen for the first time.

Some Formulary documents, such as the medication information sheets, regimen information sheets and symptom management information (for patients), are intended for patients. Patients should always consult with their healthcare provider if they have questions regarding any information set out in the Formulary documents.

While care has been taken in the preparation of the information contained in the Formulary, such information is provided on an "as-is" basis, without any representation, warranty, or condition, whether express, or implied, statutory or otherwise, as to the information's quality, accuracy, currency, completeness, or reliability.

CCO and the Formulary's content providers shall have no liability, whether direct, indirect, consequential, contingent, special, or incidental, related to or arising from the information in the Formulary or its use thereof, whether based on breach of contract or tort (including negligence), and even if advised of the possibility thereof. Anyone using the information in the Formulary does so at his or her own risk, and by using such information, agrees to indemnify CCO and its content providers from any and all liability, loss, damages, costs and expenses (including legal fees and expenses) arising from such person's use of the information in the Formulary.