Regimen Monograph

PC

 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

PC Regimen

Procarbazine-CCNU (Lomustine)

Disease Site Central Nervous System Intent Adjuvant Curative Palliative Regimen Evidence-informed : Category 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. This **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). 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. Rationale and Adjuvant treatment following radiation therapy for grade 2 or 3 oligodendroglioma (IDH-mutant, 1p19q codeleted), if toxicity to PCV is a Uses concern (Also refer to <u>PEBC guideline</u> for details on treatment recommendations.)

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SupplementaryprocarbazinePublic FundingODB - General Benefit (procarbazine)

<u>lomustine</u>

ODB - General Benefit (lomustine)

back to top

B - Drug Regimen			
lomustine	100-110 mg /m²	PO	Day 1
<u>procarbazine</u>	60 mg /m²	PO	Days 8 to 21

back to top

С-	Cycle	Frequency
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REPEAT EVERY 42 DAYS

For a usual total of 4-6 cycles unless disease progression or unacceptable toxicity occurs

back to top

D - Premedication and Supportive Measures		
Antiemetic Regimen:	High – Consider prophylaxis daily (Days 8 to 21) Moderate – Consider prophylaxis daily (Day 1)	
Febrile Neutropenia Risk:	Low	
Other Supportive Care:		
 If vomiting not controlled during procarbazine treatment, escalate antiemetic treatment – vomiting may increase intracranial pressure with larger brain tumours 		
Also refer to CCO Antiometic Recommendations		

Also refer to <u>CCO Antiemetic Recommendations</u>.

back to top

J - Administrative Information

Outpatient prescription for home administration

back to top

K - References

Buckner JC, Shaw EG, Pugh SL, et al. Radiation plus Procarbazine, CCNU, and Vincristine in Low-Grade Glioma. N Engl J Med. 2016;374(14):1344-55.

Cairncross G, Berkey B, Shaw E, et al Phase III Trial of Chemotherapy Plus Radiotherapy Compared With Radiotherapy Alone for Pure and Mixed Anaplastic Oligodendroglioma: Intergroup Radiation Therapy Oncology Group Trial 9402. J Clin Oncol 2006;24:2707-14.

Cairncross G, Wang M, Shaw E, et al. Phase III trial of chemoradiotherapy for anaplastic oligodendroglioma: long-term results of RTOG 9402. J Clin Oncol. 2013;31(3):337-43.

Mohile NA, Messersmith H, Gatson NT, et al. Therapy for Diffuse Astrocytic and Oligodendroglial Tumors in Adults: ASCO-SNO Guideline. J Clin Oncol. 2022;40(4):403-426.

Shaw EG, Wang M, Coons SW, et al: Randomized trial of radiation therapy plus procarbazine, lomustine, and vincristine chemotherapy for supratentorial adult low-grade glioma: Initial results of RTOG 9802. J Clin Oncol 2012;30:3065-70.

van den Bent MJ, Brandes AA, et al. Adjuvant procarbazine, lomustine, and vincristine chemotherapy in newly diagnosed anaplastic oligodendroglioma: long-term follow-up of EORTC brain tumor group study 26951. J Clin Oncol 2013;31(3):344-50.

van den Bent MJ, Carpentier AF, Brandes AA, et al: Adjuvant procarbazine, lomustine, and vincristine improves progression-free survival but not overall survival in newly diagnosed anaplastic oligodendrogliomas and oligoastrocytomas: A randomized European Organisation for Research and Treatment of Cancer phase III trial. J Clin Oncol 2006;24:2715-22.

PEBC Advice Documents or Guidelines

 <u>An Endorsement of the ASCO-SNO Guideline on Therapy for Diffuse Astrocytic and</u> <u>Oligodendroglial Tumors in Adults</u>

January 2023 New ST-QBP regimen

back to top

M - Disclaimer

Regimen Abstracts

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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.

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back to top