Clinician Input Template for CADTH pan-Canadian Oncology Drug Review Program

*Before completing this template, be sure to* [*register*](https://drugreviewsadmin.cadth.ca/Landing/Register/Register.aspx?Lang=EN) *with the pCODR program. Please visit* [*www.cadth.ca/pcodr/registration*](http://www.cadth.ca/pcodr/registration) *for information about the registration process.*

1. **About the Registered Clinician**

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| Name of Registered Clinician |  |
| Title |  |
| Disease Specialty (if applicable) |  |
| Province |  |
| Organization Membership (if applicable, national or provincial) |  |
| Email |  |
| Telephone Number |  |

If this is a joint clinician input submission, please list the names of the other clinicians and disease site specialty (if applicable). Please note that all clinicians listed must also register with CADTH and complete conflict of interest declaration forms.

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**Confirmation of Authorship**

I declare that I am the author of this submission and I confirm that no other parties have written or participated in the writing of the submission, except for those abovenamed in this joint submission (if applicable).

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| Signature |  | Date (YYYY/MM/DD) |

1. **About the Drug and Indication Under Review**

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| CADTH pCODR Project Number | pCODR 10153 |
| Generic Drug Name (Brand Name) | Pembrolizumab (Keytruda) |
| Indication | Advanced Non-Squamous Non Small Cell Lung Cancer |
| Funding Request | In combination with pemetrexed and platinum chemotherapy, for the treatment of metastatic non-squamous NSCLC, in adults with no EGFR or ALK genomic tumor aberrations, and no prior systemic chemotherapy treatment for metastatic NSCLC. |
| Trial(s) Being Submitted to pCODRa | * KEYNOTE-189 ([NCT02578680](https://clinicaltrials.gov/ct2/show/NCT02578680)) * [Gandhi et al, N Engl J Med 2018](https://www.nejm.org/doi/full/10.1056/NEJMoa1801005) |
| Health Canada Status | Pending |
| FDA | May 10, 2017  [in combination with pemetrexed and carboplatin for the treatment of patients with previously untreated metastatic non-squamous non-small cell lung cancer (NSCLC)](https://www.fda.gov/Drugs/InformationOnDrugs/ApprovedDrugs/ucm558048.htm) |
| European Medicines Agency Status | Pending |
| Practice Guidelinesa | Early and locally advanced non-small-cell lung cancer (NSCLC): ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up. [Annals of Oncology 28 (Supplement 4): iv1–iv21, 2017](http://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Early-Stage-and-Locally-Advanced-non-metastatic-Non-Small-Cell-Lung-Cancer).  Non–Small Cell Lung Cancer, Version 5.2017, NCCN Clinical Practice Guidelines in Oncology. [J Natl Compr Canc Netw 2017;15:504-535](http://www.jnccn.org/content/15/4/504.full) |
| Provincial Funding of Current Treatments or Funding Algorithm | Platinum doublet therapies and single agent pembrolizumab (for patients with PD-L1 ≥50%) are standard of care for first-line treatment of advanced NSCLC. Pemetrexed in combination with platinum would be specific for non-squamous histology. For patients not eligible for platinum-based therapies, they may receive single agent pemetrexed.  See Appendix B – Provincial Funding of Treatment for Metastatic NSCLC |

a Please note that access to some online publications require subscription.

1. **Key Questions for Clinician Input**

## 3.1 Current Treatment(s) for the Indication Under Review:

* If this is different than what is listed in the Provincial Funding of Current Treatments or Funding Algorithm on the previous page, identify the treatment(s) you would use.
* If more than one treatment is funded in your province, identify the treatment(s) that would be the most appropriate comparator for the drug under review.

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## 3.2 Eligible Patient Population

Describe the patients for whom you would use the new treatment. Examples can include, but are not limited to, the following questions:

* Does the patient population in the reimbursement request align with the need identified in your clinical practice? Is there an unmet need?
* Can the inclusion and exclusion criteria of the clinical trial be applied in clinical practice?
* Is there a subgroup of patients beyond the study population that you would like to use the new treatment in? Is there a subgroup of patients within the study population that the new treatment should be limited to?

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## 3.3 Relevance to Clinical Practice

Do you have experience with using the treatment (through clinical trials, manufacturer’s access program, private drug insurance) under review?

Yes No

* How or when would you use the new treatment? Is there any population/subpopulation where you particularly want to use this drug?
* How is the new treatment different than currently available treatments with respect to efficacy, safety, and tolerability?
* Are there contraindications to using the new treatment? Are there contraindications to current treatments that would make the new treatment favourable?

Please note: Scientific published references are not required, as pCODR has access to current scientific literature through the manufacturer’s submission and a rigorous, independent literature search.

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## 3.4 Sequencing and Priority of Treatments

* Please describe how the new treatment could be sequenced with current treatment(s), if appropriate.
* In your opinion, in the event that the drug under review becomes available for funding in your jurisdiction, would the new treatment be a replacement of current treatment(s) or another option?

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## 3.5 Companion Diagnostic Testing

* If companion diagnostic testing is required for the new drug, is the test available in your jurisdiction? Is it funded by your jurisdiction? What concerns, if any, do you have on the test and turnaround time for test results? Are there specific considerations to a testing algorithm that you think would be important to share with the pCODR Expert Review Committee?

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1. **Implementation Questions**

The Ministries of Health and provincial cancer programs across Canada are concerned about the sustainability of high-quality cancer control services. The rising cost of cancer drugs is becoming a major challenge to the sustainability of cancer care funding. While tremendous progress has been made in recent years in the cancer drug system, more is needed to be done to ensure innovative treatments are available to patients, while ensuring value for money for the public.

We are seeking your clinical opinion on the following implementation issues, if and when the new treatment is reimbursed. Your responses would be taken into consideration, among other factors, when Ministries of Health and provincial cancer programs make their final funding decisions.

**4.1.** For patients with PD-L1 ≥50%, is there a preference to provide these patients with single agent pembrolizumab or the combination of pembrolizumab with pemetrexed and platinum chemotherapy?

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**4.2** For patients currently on first-line single-agent pembrolizumab, should pemetrexed be added to their treatment? If so, at what point in their treatment? For patients currently on first-line pemetrexed, should pembrolizumab be added to their treatment? If so, at what point in their treatment?

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**4.3** Would you use pembrolizumab in this setting for treating metastatic disease after progression on durvalumab? If yes, what would be the appropriate time frame between treatments?

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**Appendix A: pCODR Clinician Conflict of Interest Declarations**

**Please note: Each registered clinician must complete their own separate pCODR Clinician Conflict of Interest Declarations Template even if the submission is made jointly.**

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| **Name of registered clinician:** |  |
| **Name of drug and indication under review:** |  |

**Conflict of Interest Declaration**

To maintain the objectivity and credibility of the pCODR process, all participants in the pCODR review process must disclose any conflicts of interest. A registered clinician must declare any potential conflicts of interest that may influence or have the appearance of influencing the information submitted. A conflict of interest declaration is requested for transparency — it does not negate or preclude the use of the clinician input.

Examples of conflicts of interest include, but are not limited to:

* financial support from the pharmaceutical industry or other entities (e.g., educational or research grants, honoraria, gifts, and salary)
* affiliations, or personal or commercial relationships with drug manufacturers or other interest groups.

**Section A: Payment Received**

1. Have you received any payments over the previous two years from any company or organization that may have a direct or indirect interest in the drug under review?

|  |  |
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|  | Yes |
|  | No |

If no, please go to Section B.

1. What form of payment did you receive? (Check all that apply.)

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|  | Advisory role (e.g., advisory boards, health technology assessment submission advice) |  | Program or Operating Funding (e.g., website) |  |
|  | Conference attendance |  | Research/educational grants |  |
|  | Royalties |  | Travel grants |  |
|  | Gifts |  | Sponsorship of events |  |
|  | Honoraria |  | Other, please specify: |  |

1. Please provide the names of companies and organizations, and the amounts of the payments, in the following box.

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**Section B: Holdings or Other Interests**

Have you received or are in possession of stocks or options of more than $10,000 (excluding mutual funds) for organizations that may have a direct or indirect interest in the drug under review? If yes, please list them in the following box.

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**Section C: Affiliations, Personal or Commercial Relationships**

Do you have personal or commercial relationships either with a drug or health technology manufacturer (including the manufacturer’s parent corporation, subsidiaries, affiliates, and associated corporations) or other interest groups? If yes, please provide the names of the companies and organizations, and outline the nature of these relationships, in the following box.

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I hereby certify that I have disclosed all relevant information with respect to any matter involving a Party that may place me in a real, potential, or perceived conflict of interest situation.

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|  |  |  |  |  |
| Date |  | Name |  | Signature |

Appendix B: Provincial Funding of Treatments for Metastatic NSCLC

As of June 4, 2018

NOTE: All drugs subjected to eligibility criteria.

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|  | **Afatinib** | **Alectinib** | **Ceritinib** | **Crizotinib** | **Gefitinib** | **Osimertinib** | **Nivolumab** | **Pembrolizumab** |
| BC | 🗸 | † | † | 🗸 | 🗸 | † | 🗸 | 🗸 |
| AB | 🗸 | † | † | 🗸 | 🗸 | † | 🗸 | 🗸 |
| SK | 🗸 | † | † | 🗸 | 🗸 | † | 🗸 | 🗸 |
| MB | 🗸 | † | † | 🗸 | 🗸 | † | 🗸 | 🗸 |
| ON | 🗸 | † | † | 🗸 | 🗸 | † | 🗸 | 🗸 |
| QC | 🗸 | † | † | 🗸 | 🗸 | † | 🗶 | 🗸 |
| NB | 🗸 | † | † | 🗸 | 🗶 | † | 🗸 | 🗸 |
| NS | 🗸 | † | † | 🗸 | 🗶 | † | 🗸 | † |
| NL | 🗸 | † | † | 🗸 | 🗶 | † | 🗸 | 🗸 |
| PEI | 🗸 | † | † | 🗸 | 🗶 | † | † | † |

Legend: 🗸 Funded, 🗶 Not funded, † Funding decision pending