

Supplemental Appendix for:
Province-Wide Analysis of Patient Reported Outcomes for Stage IV Non-Small Cell Lung Cancer
Alexander Louie et al.

Appendix A. Main variables definitions using Ontario healthcare databases.		
Variable	Data Source	Code Strategy
Stage IV NSCLC diagnosis	Ontario Cancer Registry (OCR)	<p>ICD-O-3 topography: Lung: C34.0-34.3, C34.8, and C34.9</p> <p>ICD-O-3 histology: <i>Included</i> <u>Squamous cell carcinoma</u>: 8070/3, 8070/6, 8071/3, 8072/3, 8074/3, 8075/3, 8073/3, 8084/3, and 8083/3. <u>Adenocarcinoma</u>: 8140/3, 8140/6, 8310/3, 8480/3, 8481/3, 8255/3, 8480/3, 8250/3, 8251/3, 8252/3, 8253/3, and 8254/3. <u>Large cell carcinoma</u>: 8012/3, 8013/3, 8014/3, and 8246/3. <u>Adenosquamous carcinoma</u>: 8560/3.</p> <p><i>Excluded</i> <u>Carcinoid</u>: 8240/3, 8241/3, 8242/1, 8242/3, 8243/3, and 8249/3. <u>Mesothelioma</u>: 9050/3, 9051/0, 9050/0, 9051/3, 9052/0, 9052/3, 9053/3, 9055/0, and 9055/1. <u>Small cell carcinoma</u>: 8041/3, 8042/3, 8043/3, 8044/3, and 8045/3.</p>
Edmonton Symptom Assessment System (ESAS) scores and time	Symptoms Management Reporting Database (SMRD)	If >1 ESAS completed in a month, highest scores were used for analysis.
Sex	Registered Person database (RPDB)	-
Age at diagnosis	OCR	-
Elixhauser comorbidity index	National Ambulatory Care Reporting System (NARCS) CIHI-Discharge abstract database (DAD) CIHI-Same day surgery (SDS) Ontario Health Insurance Plan (OHIP)	Calculated based on ICD diagnosis codes identified in administrative databases ⁴² .
Immigration status	Immigration, Refugees, and Citizenship Canada (IRCC)	-

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Neighborhood income quintile	Canadian Census RPDB	Ecologic measure of income based on the median income of a patient's postal code of residence.
Residence	RPDB	Based on Rurality Index of Ontario ¹⁹ .
Radiotherapy	OHIP Cancer Activity Level Reporting (ALR)	-
Systemic therapy	OHIP Cancer ALR	-
Diagnosis year	OCR	-
Time of death	RPDB	-