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10.	42307
Meeting / Value in Health Info:	ISPOR 18th Annual European Congress Milan, Italy
	November, 2015
Code:	PMD160
Disease:	Cancer
Topic:	Health Care Use & Policy Studies (HP)
Topic Subcategory:	Health Technology Assessment Programs (HTA)
Title:	MODELING OF RISKS AND BENEFITS OF LUNG CANCER SCREENING STRATEGIES USING LOW-DOSE HELICAL CT (LDCT) TECHNOLOGY IN CANADA
Author(s):	Zowall H ¹ , Brewer C ² , Deutsch A ¹ ¹ McGill University, Montreal, QC, Canada, ² Zowall Consulting Inc., Westmount, QC, Canada
Content:	view presentation
compared the risks and benefits about recommending LDCT as a decision analytic model to compa LDCT and CXR exposure. The ag Colorectal and Ovarian trial (PLC screening. RESULTS: We comparadiation dose for LDCT is only 2	e most common cause of death from cancer worldwide. Yet, screening for lung cancer remains controversial. We of lung cancer screening with low-dose helical CT (LDCT) relative to chest x-ray (CXR). Concerns have been raised routine screening tool because of the potential harms, including cumulative radiation risks. METHODS: We developed a are LDCT and CXR under alternative screening scenarios, and estimate the number of radiation-induced cancers due to e and sex specific model was calibrated for Canada, using National Lung Screening Trial (NLST) and Prostate, Lung, co) data. Three alternative strategies were compared: regular screening with LDCT, screening with CXR, and no used radiation risks to estimated cancers prevented, using age and gender- specific projections. The average effective (1.4 mSv) of the standard chest CT (7 mSv). However, the effective dose might be 20% to 23% higher for females to each of the control of the control of the standard chest CT (7 mSv). However, the effective dose might be 20% to 23% higher for females to each of the control of the cont

This translated into 3 fewer deaths from lung cancer per 1000 high-risk individuals screened with LDCT. However, more than 90% of positive screened results were false positive findings. Over 97% of new lung cancer cases are in high-risk adults aged 50 years and older. **CONCLUSIONS:** Concerns have been raised about recommending LDCT as a routine screening tool for lung cancer. Our model addresses a number of public policy questions

regarding who should be targeted for screening and what the trade-offs are in terms of potential harms and benefits.