

# Establishing quality care for patients with malignant pleural mesothelioma – the EQUAL CARE Program

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## INTRODUCTION

Malignant pleural mesothelioma (MPM) remains one of the most lethal cancers, one for which exposure to asbestos is the most recognized risk factor.

Considering the long history of asbestos mining in Quebec, it is not surprising that about 30% of all new annual MPM cases in Canada come from Quebec.

Presently, there is no formal trajectory for patients with a newly diagnosed MPM within the Rossy Cancer Network (RCN) partner hospitals. The delays in patient diagnosis and treatment not only impacts quality of life and patient anxiety, but may also have a profound impact on survival.

Given the overall poor disease prognosis, the highly symptomatic nature of MPM, and the fact that MPM incidence is going to continue to increase for at least the next two decades, it is clear that timely access to treatment and therapy is of crucial importance to the survival and quality of life of patients.

In addition, the low prevalence of this disease makes enrolment in clinical trials challenging and emphasizes the need for a regional/provincial treatment centre.

## HYPOTHESIS

Establishing a centralized, rapid access MPM program to streamline the investigations and management of newly diagnosed patients with MPM within the RCN will result in a **decrease in wait times, improved quality of life and potentially, improved oncologic outcomes.**

## OBJECTIVES

✓ **Phase 1:** Design comprehensive institutional protocols to streamline the management of MPM

- Knowledge transfer and protocol design phase
- Establish website and conduct community outreach to referring physicians

✓ **Phase 2:** Develop a clinical database that will be used to track MPM patients

- 10-year retrospective review of MPM outcomes at the McGill University Health Centre and Jewish General Hospital to guide prospective database setup

**Phase 3:** Conduct an impact evaluation of the program

- Impact of program on time from presentation to Dx, Dx to Rx and effect on QOL

**Phase 4:** Assess long term oncologic outcomes such as disease progression, overall survival and disease free survival.

## METHODS

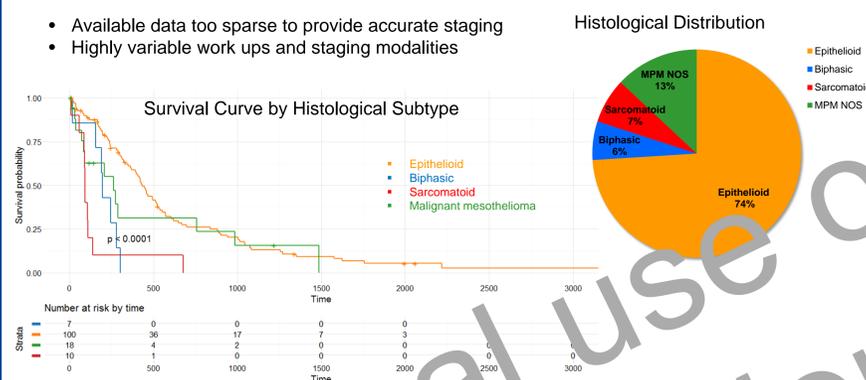


## RESULTS

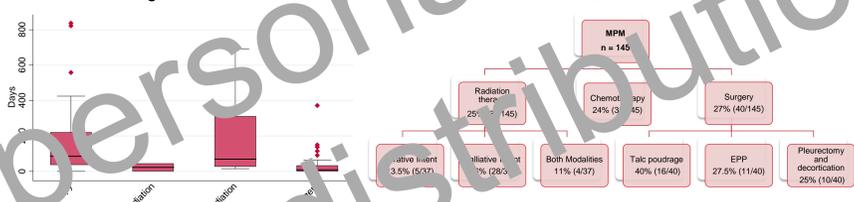
### RETROSPECTIVE ANALYSIS OF MPM AT THE MUHC OVER A 10-YR PERIOD

n = 145

- Available data too sparse to provide accurate staging
- Highly variable work ups and staging modalities



### Time from Diagnosis to First Treatment



Median number of days from:	Days
Date of Dx to Tx	37 (1 month and 6 days)
Date of Tx to Chemo Tx	86 (2 months and 26 days)
Date of Tx to Curative Rx	22
Date of Dx to Palliative Rx	69 (2 months and 9 days)
Date of Dx to Surgery	9

\*Further chart review is required/ ongoing to determine the percentage of patients receiving multimodality therapy – pending results

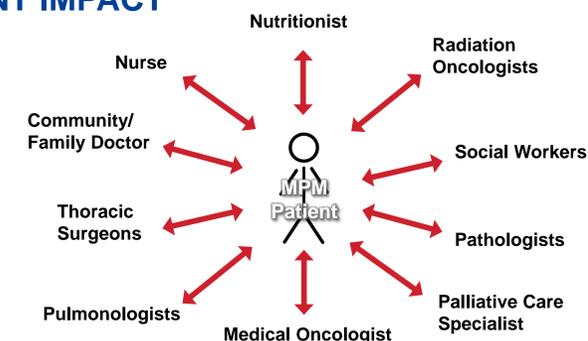
## PATIENT IMPACT

Currently, malignant pleural mesothelioma (MPM) is an orphan disease at McGill and across all RCN sites. Patients are randomly referred to pulmonary specialists who do their best to manage this patient population. Often, their symptoms have been present for a long period of time before a diagnosis of MPM is ever made. Due to the lack of established care pathways, the initiation of treatment is slow and inconsistent.

- ✗ No dedicated expert teams for MPM
- ✗ No clinical trials for patients with MPM
- ✗ No established program for MPM

## The Integrated Program for Pleural Mesothelioma

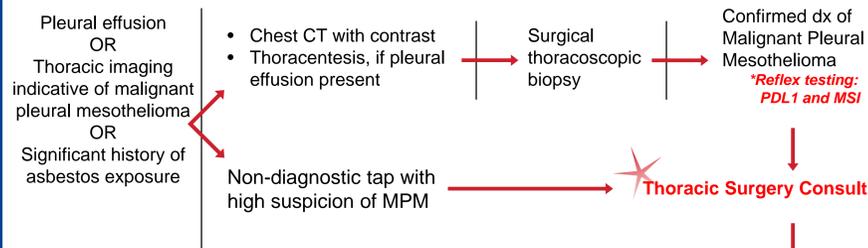
## PATIENT IMPACT



## TRANSLATION ACROSS THE RCN

### DEVELOPMENT OF CONSENSUS GUIDELINES ACROSS THE RCN

#### DIAGNOSIS



#### EVALUATION AND TREATMENT

##### Curative Intent

- Short course hemithoracic radiation → extrapleural pneumonectomy +/- chemo
- Trimodality therapy: systemic chemo → pleurectomy decortication → IMRT

Limited stage (cI-III) based on PET in PS 0-2 patient:

- EBUS +/- VATS talc poudrage +/- diagnostic laparoscopy
- 6-minute walk test
- Quantitative V/Q scan
- Cardiac stress testing
- Echocardiography

- ✓ PET CT
- ✓ ECOG status
- ✓ PFTs
- ✓ Patient desire for curative intent QOL questionnaire
- ✓ Early palliative care consult/evaluation
- ✓ Thoracic tumour board presentation

##### Palliative Intent

- Palliative consult
- Best supportive care
- +/- palliative chemo
- +/- palliative radiation
- +/- VATS decortication/talc poudrage

Advanced stage (cIV) based on PET and/or PS > 2

##### Clinical trial options:

1. Pembrolizumab – Canadian Cancer Trials Group (CHUM)
2. KEYNOTE-158 – Merck (MUHC and JGH)