

Low Dose Whole **Lung Radiotherapy** For **Older Patients With Coronavirus-19 Disease (COVID-19)**  
Pneumonitis: Practical Protocol By The International Geriatric Radiotherapy Group.

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**Study Objectives:**

- International Study (40 Centers – 25 Countries - 2 within Canada)
- Use Local Radiotherapy to lungs in order to prevent the inflammatory storm
- Reduce COVID-19 complications related to cytokines storm
- Reduce COVID-19 duration of hospitalization

**STUDY SCHEMA**

**Eligibility criteria**  
 ✓ COVID-19 +  
 ✓ Pneumonia +  
 ✓ ≥65 y.o.

**Any Exclusion criteria ???**

**If Yes: Exclusion**

**If No:**  
 ✓ **Contact** : Luciana Poggi/Dr. Te Vuong  
 ✓ **Sign Consent Form**  
 ✓ **Baseline Study parameters**  
 ✓ **Planning and Radiotherapy treatment**  
 (only one treatment session (1Gy) at JGH)

**Monitoring study parameters**  
 ✓ Day 3, 7, 14, 21 and 28 post-radiotherapy.  
 ✓ Months 3, 6 and 12 post-radiotherapy.

**Study Parameters**  
**A. Clinical status**  
**B. Duration of Hospitalization**  
**C. O2 Saturation**  
**D. Blood test** : PCR, VES, Ferritine, IL-6  
**E. Time to recovery defined by the Ordinal Scale:**

**Inclusion Criteria**

- ✓ ≥65 years old
- ✓ Pneumonia observed on Chest X-Ray or Chest CT-Scan
- ✓ SARS-CoV-2 positive (nasopharyngeal swab, sputum or oropharyngeal secretions)
- ✓ May receive antiviral, ATB or anti-inflammatory medications (as judged necessary) **OUTSIDE** of a clinical trial.
- ✓ Patients admitted to the ICU but **NO** on artificial ventilation.
- ✓ Patients may or may not require O2, but are **NOT** on artificial ventilation

**Exclusion Criteria**

- × No proven diagnosis for SARS-CoV-2
- × Hemodynamically unstable to undergo radiotherapy treatment (e.g. uncontrolled cardiac arrhythmia and/or hypotension despite vassopressors PAS < 90mmHg)
- × Infected patients with O2 saturation < 90% **DESPITE** O2 therapy.
- × Mentally confused and cannot consent for treatment.
- × Patient already enrolled in another clinical trial to assess the efficacy of an anti-viral treatment.

**Note**  
 Patients **ARE NOT EXCLUDED** if receiving:  
 ✓ Anticoagulation prophylaxis and/or  
 ✓ Corticosteroids prophylaxis and/or  
 ✓ Antiviral **NOT** on a clinical trial

1: not hospitalized, no limitations of activities.  
 2: not hospitalized, limitations of activities, home oxygen requirement or both.  
 3: hospitalized, not requiring supplemental oxygen, and no longer requiring ongoing medical care (used if hospitalization is required for infection-control reasons).  
 4: hospitalized, not requiring supplemental oxygen but requiring ongoing medical care (COVID-19 related or other medical conditions).  
 5: hospitalized, requiring low flow oxygen (2 liters/minute or less).  
 6: hospitalized, requiring high flow oxygen (>2 liters/minute) or non-invasive ventilation.  
 7: hospitalized, requiring endotracheal intubation or tracheostomy and ventilators or extra-corporeal membrane oxygenation  
 8: death.