Séminaire

Département des sciences de l'imagerie médicale et des radiations

The frankenstein study: exploring the potential link between copd and the risk of cerebrovascular disease



Mustapha Moulay Abdallah

Étudiant au doctorat au programme de sciences des radiations et imagerie biomédicale

Premier séminaire de recherche au doctorat pour l'étudiant sous la direction des Pr Kevin Whittingstall, Pr Simon Couillard & Pre Ann-Marie Beaudoin

Évaluation Étudiante: Nicolas Pokora

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Exploring the potential relationship between Chronic Obstructive Pulmonary Disease (COPD) and changes in the cerebral vascular system that may contribute to stroke and dementia. COPD is a major respiratory disease associated with an increased risk of both conditions, particularly following acute exacerbations. However, despite these established associations, little is known about how COPD affects the structure of cerebral arteries. To address this gap, the Frankenstein Study aims to investigate cerebral arterial changes in patients with COPD using brain CT angiography (CTA). We will examine arterial characteristics such as stenosis, calcification, dilation, and tortuosity, comparing COPD patients with healthy controls and frequent exacerbators with non-exacerbators. Additionally, chest CT imaging will be used to characterize lung abnormalities involving the parenchyma, airways, and pulmonary vasculature, and explore their associations with cerebral arterial changes. Ultimately, this research aims to better understand the potential vascular link between COPD, stroke, and dementia.