COVID-19 is an emerging, rapidly evolving situation.
Get the latest public health information from CDC: https://www.coronavirus.gov.
Get the latest research information from NIH: https://www.nih.gov/coronavirus.

ClinicalTrials.gov Identifier: NCT04373486

Recruitment Status: Recruiting
First Posted: May 4, 2020
Last Update Posted: May 4, 2020

See Contacts and Locations

Sponsor:
University Hospital, Strasbour, France

Information provided by (Responsible Party):
University Hospital, Strasbour, France

Disclaimer
How to Read a Study Record
Study Description

Brief Summary:

Reports of acute pulmonary embolism (APE) associated with COVID-19 have emerged in the literature. For example, Chen et al. described 25 pulmonary CT angiograms examinations from 1008 COVID-19 patients; 10 were positive for pulmonary embolism mostly as segmental or sub-segmental APE. Case reports of APE in Covid-19 patients have been published. Cui et al. found an incidence of deep venous thrombosis in intensive care unit (ICU) patients with severe Covid-19 pneumonia near to 25% (20/81), however without any correlation with potential APE.

Despite these initial reports, it is not clear whether APE is more frequent in Covid-19 patients or if the association is just random. In favor of the former, D-dimer levels have been reported as elevated in patients with Covid-19 by two studies, and it has been suggested an independent association between the severity of the disease and the level of D-dimer. Finally, Tang et al. showed that anticoagulant therapy is associated with a decreased mortality at Day-28 in severe Covid-19 patients, in favor of a possible associated coagulopathy. The purpose of this study is to describe the rate of pulmonary embolus in patients classified as COVID-19 infection and who underwent chest CT angiography.

The purpose of this study is to describe the rate of pulmonary embolus in patients classified as COVID-19 infection and who underwent chest CT angiography.

Condition or disease

Covid-19 With Positive RT-PCR

Study Design

Study Type: Observational
Estimated Enrollment: 160 participants
Observational Model: Case-Only
Time Perspective: Other
Official Title: Incidence of Acute Pulmonary Embolism in Covid-19 Patients on CT Angiography and Relationship to D-dimer Levels
Actual Study Start Date: March 3, 2020
Actual Primary Completion Date: April 30, 2020
Estimated Study Completion Date: May 1, 2020
Groups and Cohorts

Outcome Measures

Primary Outcome Measures:
1. Rate of positivity for Acute Pulmonary Embolism [Time Frame: March 1, 2020 - March 31, 2020]

Eligibility Criteria

Information from the National Library of Medicine

Choosing to participate in a study is an important personal decision. Talk with your doctor and family members or friends about deciding to join a study. To learn more about this study, you or your doctor may contact the study research staff using the contacts provided below. For general information, Learn About Clinical Studies.

Ages Eligible for Study: 18 Years and older (Adult, Older Adult)
Sexes Eligible for Study: All
Sampling Method: Non-Probability Sample

Study Population
Patients with positive SARS-Cov-2 RT-PCR

Criteria

Inclusion Criteria:
- Positive SARS-Cov-2 RT-PCR
- Chest CT angiography available
- Patient is aged 18yo or above
Exclusion Criteria:

- Expressed opposition to participate
- Adults under guardianship

Contacts and Locations

Information from the National Library of Medicine

To learn more about this study, you or your doctor may contact the study research staff using the contact information provided by the sponsor.

Please refer to this study by its ClinicalTrials.gov identifier (NCT number):

NCT04373486

Contacts

Contact: Mickaël OHANA, MD, PhD  33 3 69 55 11 17  mickael.ohana@chru-strasbourg.fr
Contact: Saïd CHAYER, PhD, HDR  33 3 88 11 66 90  said.chayer@chru-strasbourg.fr

Locations

France

Service de Radiologie B - NHC

Strasbourg, France, 67091
Contact: Mickaël OHANA, MD, PhD  33 3 69 55 11 17  mickael.ohana@chru-strasbourg.fr
Principal Investigator: Mickaël OHANA, MD, PhD
Sub-Investigator: Ian LEONARD-LORANT, MD
Sub-Investigator: Xavier DELABRANCHE, MD, PhD
Sub-Investigator: François SEVERAC, MD
Sub-Investigator: Julie HELMS, MD, PhD
Sub-Investigator: Coralie PAUZET, MD
Sub-Investigator: Olivier COLLANGE, MD, PhD
Sub-Investigator: François SCHNEIDER, MD, PhD
Sub-Investigator: Aissam LABANI, MD
Sub-Investigator: Pascal BILBAULT, MD, PhD
Sub-Investigator: Sébastien MOLIERE, MD
Sub-Investigator: Pierre LEYENDECKER, MD
Sub-Investigator: Catherine ROY, MD

Sponsors and Collaborators
University Hospital, Strasbourg, France

More Information

Responsible Party: University Hospital, Strasbourg, France
ClinicalTrials.gov Identifier: NCT04373486
Other Study ID Numbers: 7840
First Posted: May 4, 2020
Key Record Dates
Last Update Posted: May 4, 2020
Last Verified: April 2020

Studies a U.S. FDA-regulated Drug Product: No
Studies a U.S. FDA-regulated Device Product: No

Keywords provided by University Hospital, Strasbourg, France:
  Covid-19
  Pulmonary Embolism
  CT angiography

Additional relevant MeSH terms:
  Pulmonary Embolism
  Cardiovascular Diseases
  Embolism
  Lung Diseases
  Embolism and Thrombosis
  Respiratory Tract Diseases
  Vascular Diseases