CME Session 1

Inflammation & Infection Committee
Sunday, October 5, 08:00 – 09:30

Session Title

The Role of FAPI PET/CT in Inflammation Diseases

Chairpersons

Olivier Gheysens (Brussels, Belgium)
Cristina Wakfie-Corieh (Madrid, Spain)

Programme

08:00 – 08:20 **Mark Coles** (Oxford, United Kingdom): Understanding the biology and function of fibroblasts in inflammation
08:20 – 08:45 **Neil Craig** (Edinburgh, United Kingdom): FAPI PET/CT in cardiac diseases
08:45 – 09:10 **Anne-Leen Deleu** (Brussels, Belgium): FAPI PET/CT in lung diseases
09:10 – 09:30 **Maria Sandovici** (Groningen, Netherlands): FAPI PET/CT in rheumatological diseases

Educational Objectives

1. To better understand the role of fibroblasts in healthy tissues and inflammation and how this can be translated into targeted imaging.
2. To provide a comprehensive overview on the role of FAPI PET/CT in major cardiac, lung and rheumatological diseases.
3. To discuss the potential clinical impact of FAPI imaging; aiding early diagnosis, treatment planning and response assessment.

Summary

FAPI PET/CT is a promising advancement for imaging fibro-inflammatory diseases, offering additional information over traditional FDG PET/CT by targeting activated fibroblasts. These activated fibroblasts play a key role in a wide variety of (chronic) inflammatory diseases such as rheumatoid arthritis, interstitial lung diseases or myocardial fibrosis that underlies almost every cardiomyopathic condition. This CME session aims to provide a comprehensive overview on the pathophysiology and role of fibroblasts in health and diseases, and to summarize the current state-of-the-art on FAPI imaging in cardiovascular, pulmonary and rheumatological diseases. Furthermore, we will outline the most exciting areas for future research and how this novel technique may improve both our understanding of fibrosis and guiding patient management.

Key Words

Inflammation; fibroblasts; fibroblast activation protein inhibitor; PET/CT