



PCCCMU 2 WEEKS TRAINING COURSE F-18-FDG PRODUCTION (LONG)

TRAINEE QUALIFICATIONS:

1. Graduated in Pharmacy / Chemistry / Medical physics / Biology / Medicine / Radiological technology / Paramedical science or related fields.
2. Have experience in laboratory work.
3. Good in Thai or English, can speak and understand reasonably well in both conversational and academic language.

NUMBER OF TRAINEE: 1- 8

TRAINING PERIOD: 2 weeks / 10 training days / 80 training hours

VENUE: PET/CT & Cyclotron Center Chiang Mai University, Center for Medical Excellence, Faculty of Medicine, Chiang Mai University, Muang, Chiang Mai, 50200 THAILAND

COURSE FEE*: 100,000 THB for one trainee,
60,000 THB for a trainee in case of more than one person.

*PET/CT & Cyclotron Center Chiang Mai University reserves the right to make adjustments to pricing and course contents at any time for reasons including, but not limited to, consumables price fluctuation, personnel availability and equipment performance.

TRAINING ACTIVITIES: Lecture 26 hours, Laboratory practice 54 hours

OBJECTIVES: In the training course, the trainee will be given the opportunities to;

1. Understand the whole process of F-18-FDG production and Quality Control
2. Practice hands-on synthesis of F-18-FDG with F300E synthesizer
3. Perform quality control tests according to international standard for F-18-FDG
4. Experience the concept of Quality Management and relevant regulations, including Radiation protection, Radiation Safety management and Radiopharmaceutical cleanrooms in Cyclotron facility



5. Observe the workflow and administration of F-18-FDG PET/CT for routine clinical examination in the Hospital setting

6. Understand the concept of Clinical applications of PET/CT imaging in oncology

COURSE CONTENTS

HOUR(S)

Lecture Practice

Introduction to Hospital Cyclotron and Radiation Protection	8	16
<ul style="list-style-type: none">• Radiation safety management in cyclotron unit• Cyclotron structure• Cyclotron operation• Cyclotron targetry• Radionuclide transfer• Clinical applications of PET/CT imaging in oncology		
FDG production	6	17
<ul style="list-style-type: none">• F-18- FDG synthesis chemistry• Chemicals & equipment preparation for F-18-FDG synthesis• F-18-FDG synthesis module; F300E SUMITOMO		
Quality control testing	6	17
<ul style="list-style-type: none">• Radionuclidic purity• Radiochemical purity• Chemical impurities• Sterility test• Endotoxin test		
GMP requirement for F-18-FDG manufacture	6	4
<ul style="list-style-type: none">• Thai GMP (follow the PICS GMP)• EU GMP• Trouble shooting		
TOTAL	26	54



TRAINING ASSESSMENT: 80% passing of MCQ test

100% success in practical assignment

For more detail please contact: PCCCMU Radiopharmaceutical production team

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