



# Introduction

- UNAN-Leon and UMCU-Utrecht medical student exchange since 2002
    - UMCU students: internships in Nicaragua
    - UNAN students: 2 wk Summer course at UMCU
  - Since 2009 Maarten van Leeuwen: contacts with Nicaraguan Radiology
  - 2012: Nuffic TMT program (UNAN-UMCU)
- Locoregional teachers teach selected professionals
1. X-ray technologists (12)
  2. Radiologists and residents (20)

# Nuffic TMT program



Universitair Medisch Centrum  
Utrecht

Nuffic = Netherlands organisation for international cooperation in higher education.

Independent, non-profit organisation supports internationalisation in higher education, research and professional education in the Netherlands and abroad, and helps improve access to higher education worldwide.

NFP Tailor-Made Training programme (TMT) specifically aims to improve the overall functioning of organisations by training selected groups of employees.

# Nuffic TMT program



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X-ray technicians

1. 3-7 Sept. Lic Carlos Humberto Reyes, San Salvador, El Salvador

# Nuffic TMT program



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## Radiologists and residents

1. 17-21 September. Maarten van Leeuwen, UMCU Utrecht
  - Abdominal Radiologist, HPB and GI oncology
  - Support education in Nicaraguan Radiology by TMT program
  - ANRI, Alfonso Cerrato: coordinator for radiologists and locoregional teachers
  - ANTRA, Yadira Bravo: coordinator for X-ray technicians
  - UNAN-Leon, UNAN-Managua: organization and support



# 17-21 September

1. Liver lesions
  2. Pancreatic lesions
  3. Dynamic Radiology according to Morton Meyers
- Presentations (14)
  - Cases for discussion (+/-80)
  - Interactive workshop (+/-80)

# 17-21 September



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Clinical management of liver and pancreatic lesions depends largely on radiology and we have the responsibility to provide the right information.

1. CT is the cornerstone for diagnosis of liver and pancreatic lesions
2. MRI has additional diagnostic value and provides insight in pathology
3. Detailed anatomical knowledge is key to abdominal radiology

# 17-21 September



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## Educational goals:

### 1. Knowledge

- Know the prevalent pathology
- Know the imaging features of that pathology
- Know the information required by the clinician
- Know the best imaging protocol

### 2. Skills

- Analyze anatomical relationships
- Analyze pathological imaging features
- Interpret the clinical significance of imaging findings