



# Radiography

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-Radiographer-

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# REGULATED BY AHPCZ



- RADIOGRAPHERS
- SONOGRAPHERS
- X-RAY OPERATORS

# RADIOGRAPHY



PREFIX / SUFFIX	MEANING	ORIGIN LANGUAGE AND ETYMOLOGY
RADIO	RADIATION	LATIN
GRAPHY	PROCESS OF RECORDING	ANCIENT GREEK

# RADIATION



## Ionising

- Any type of particle or electromagnetic wave
- Energy is high enough to ionise or remove electrons from an atom
- Can cause damage to living tissue
- E.g. X-Ray

## No Ionising

- Has insufficient energy to cause ionisation
- Can cause harm
- E.g Microwave

# RADIOGRAPHY



## **Diagnostic**

Utilizes imaging examinations with or without ionizing radiation to affect diagnosis.

## **Therapeutic**

Utilizes radiation to treat cancer as well as imaging examinations to plan and to monitor treatment

# Diagnostic Modalities



- **X-Ray**

- **Ultrasound**

- Computed Tomography (CT)

- Magnetic Resonance Imaging (MRI)

- Positron Emission Tomography (PET)

- Interventional Radiography

- Single Photon Emission Computed Tomography (SPECT)

- Fluoroscopy

- Mammography

- Dual Energy X-ray Absorptionmetry (DXA)

# Therapy Modalities



- External Beam Radiotherapy (EBRT)
- Intensity Modulated Radiation Therapy (IMRT)
- Volumetric Modulated Arc Therapy (VMAT)
- Brachytherapy
- Image Guided Radiation Therapy (IGRT)
- Radionuclides, particle beams;
- Electron, neutron and proton therapies

# PROFESSIONS



## **Radiographer**

Records images using radiation for either diagnosis or treatment.

## **Sonographer**

Records images using non ionising radiation (Ultrasound) for diagnosis.

## **Sonographer**

Records images using X-Rays for diagnosis.

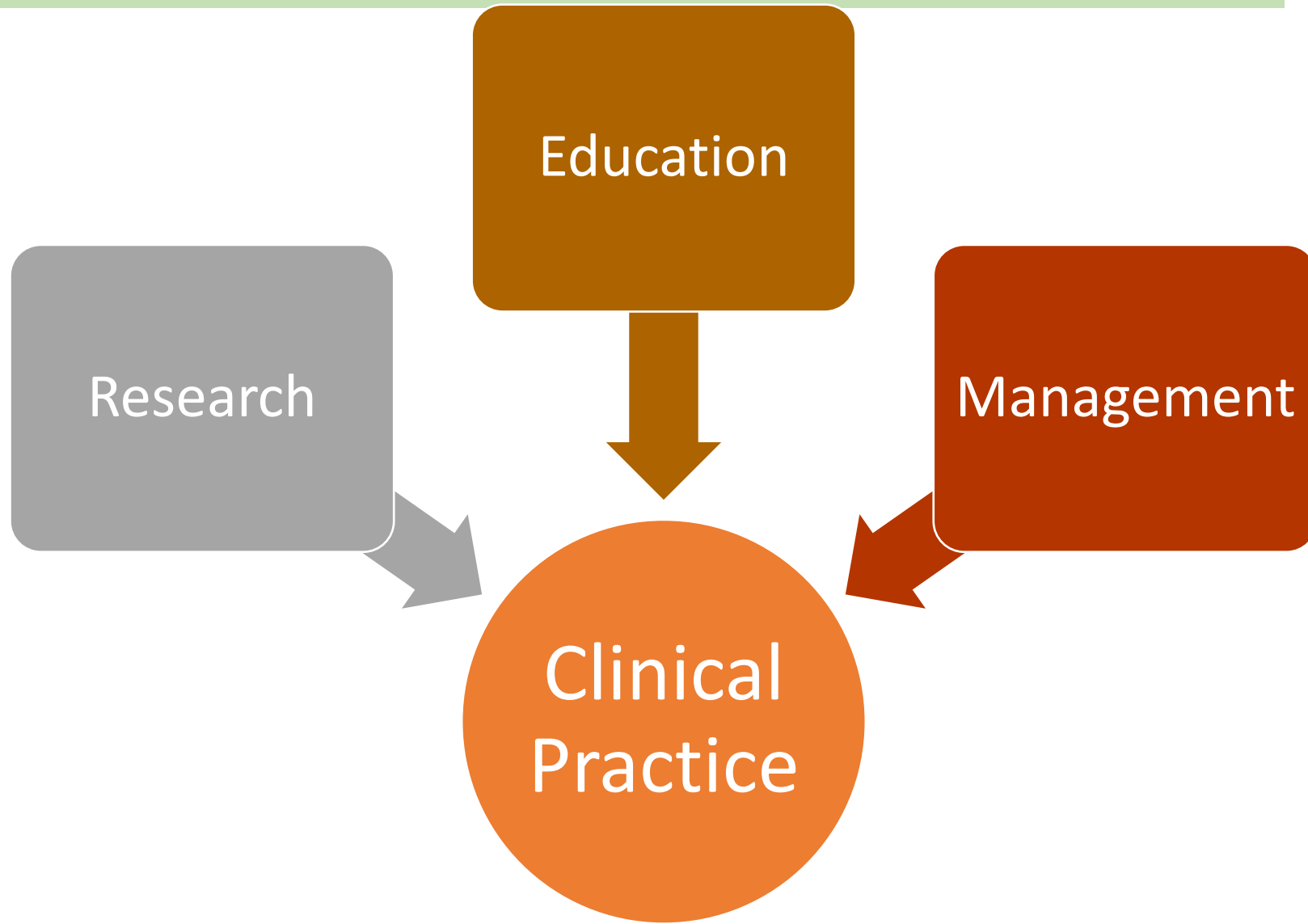


# CAREER LOCATIONS



- Tertiary Institutions
- Public Hospitals  
(Central, Provincial, District, Mission )
- Private Hospitals
- Research Facilities
- MINISTRY ??

# REGULATION ARM



# REGISTRATION



- Level of education
- Competencies (Mentorship)
- Scope of practice

# CONCLUSION



- All professionals under radiography need to be regulated to ensure public safety.
- Additional special skills should be registered and recognised in work locations.
- Creation of enabling environment for development
- Public to confirm competencies of practitioners.
- Public to report anyone without a certificate to AHP CZ.



*Thank you...*