

# Dental and Maxillofacial Radiology Summary Information Sheet

	<b>Suggested forms of evidence</b>	<b>Tell us how you have met this outcome</b>	<b>Where in your portfolio can this evidence be found?</b>	<b>Assessor's rating and comments on evidence (Meets/partially meets/does not meet)</b>
<b>RADIATION PHYSICS AND RADIATION PROTECTION</b>	<b>First FRCR Physics module examination Certificate in medical emergencies and CPR</b>			
Describe the nature, structure & properties of matter, radioactivity, magnetism, ionising radiation, radiofrequency radiation and ultrasound and how they interact with each other				
Explain the physical principles underpinning: Radiography Fluoroscopy CT CBCT MRI Ultrasound Radionuclide imaging				
Describe the construction, function, and operation of medical and dental imaging equipment				
Explain the operation factors of imaging equipment, effects on indices of image quality and their inter-relationships				

<p>Explain the principles of quality assurance in medical and dental imaging</p>				
<p>Describe image artefacts in medical and dental imaging</p>				
<p>Describe the hazards and risks to patients, staff and public from medical imaging</p>				
<p>Describe contrast agent, their reactions and adverse reactions</p>				
<p>Describe UK legislation and guidance in medical and dental imaging</p>				
<p><b>BASIC DENTAL RADIOLOGY</b></p>	<p>DDR Part A Mini-IPX Rad-DOPS</p>			

Describe applied anatomy of the jaws, the teeth, their supporting structures relevant to the dento-alveolar disease & radiological diagnosis				
Describe terminology relevant to dento-alveolar imaging				
Describe the role & details of intra-oral and extra-oral imaging modalities including CBCT in dento-alveolar imaging				
Explain the principles of differential diagnosis of dento-alveolar bone lesions				
Describe normal and variant anatomy relevant to dento-alveolar imaging				
Describe local/regional/national guidelines in dento-alveolar investigations				

<b>ADVANCED DENTAL RADIOLOGY</b>	DDR Part B Mini-IPX Rad-DOPS			
Recognise typical and atypical presentations and appearances of common conditions				
Recognise how diagnosis affects the management pathway				
Describe national/international guidelines and current literature on dento-alveolar investigations				
Recognise most acute clinical presentations and diagnoses				
Explain the technical aspects of advanced dento-alveolar imaging techniques				

Describe the principles and processes of research				
<b>MAXILLOFACIAL RADIOLOGY</b>	DDR Part B Mini-IPX Rad-DOPS			
Describe applied anatomy of maxillofacial skeleton including TMJ relevant to maxillofacial disease and radiological diagnosis				
Describe applied head and neck anatomy relevant to maxillofacial radiology including paranasal sinuses, the anatomy of the skull base, cranial nerves (V, VII, IX, and XII) and the temporal bone relevant to maxillofacial disease and radiological diagnosis				
Describe applied anatomy of the salivary glands, thyroid gland, cervical lymph nodes and soft tissue spaces of the neck and relevant to maxillofacial disease and radiological diagnosis				
Describe normal and variant anatomy relevant to maxillofacial imaging				

Describe the role and details of intra-oral and extra-oral dental imaging modalities in maxillofacial imaging including maxillofacial CBCT				
Describe the role and details of CT, MRI, and ultrasound imaging in maxillofacial radiology including the salivary glands				
Describe the role and details of TMJ investigations				
Describe the role and details of radionuclide investigations in the maxillofacial region				
Explain the principles of differential diagnosis of maxillofacial bone lesions and soft tissue conditions involving the maxillofacial region				
Describe tumor staging				

Recognise typical and atypical presentations of the full range of maxillofacial conditions				
Recognise most acute clinical presentations and diagnoses				
Recognise uncommon conditions mimicking common diagnoses				
Describe local/regional/national/international guidelines and current literature on maxillofacial investigations				
<b>MAXILLOFACIAL RADIOLOGY – ‘HANDS ON’ AND INTERVENTIONAL PROCEDURES</b>	DDR Part B Mini-IPX Rad-DOPS			