# Mandible 16 Emotion

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| **Indications** | **Trauma, Pain, Swelling** |
| **Diagnostic Task** | **Detect fratures, edema, masses, or infection of the jaw** |
| **Position/Landmark** | Head first- Supine |
| **Scan Type** | Helical |
| **Topogram Direction** | lat 130 kV 25mA |
| **KV/Effective mAs** | 130kv 115mas/ |
| **Rotation time/pitch** | 1.0/0.8 |
| **Detector Confituraiton** | 16x0.6 |
| **table speed/Increment** | 7.68 |
| **Dose Reduction** | Cared dose 4D |
| **Allowed CTDI ranges*** | 30mGy-80mGy |
| **XR29 Dose Notification V** | 80mGy |

**Helical Set-SUPINE**

| recon | body part | thickness spacing | kernel | window | recon destination |
|---|---|---|---|---|---|
| 1 | mandilbe bone | 1mmx 1mm | 70 very sharp | osteo | pacs |
| 2 | mandible soft tissue | 2mmx 2mm | 31 medium smooth | mediastinum | pacs |
| 3 | coronal mandible bones | 1mmx1mm | 70 very sharp | osteo | pacs |
| 4 | sag mandilbe bones | 1mmx1mm | 70 very sharp | osteo | pacs |

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|---|---|
| **Scan start/end** | 1cm superior to glenoid fossa |
| | through inferior mandible |
| **DFOV** | 25cm |
| **angle** | none |
| **IV contrast volume/type** | 80ml under 250lbs 100ml over 250lbs isovue 370 2cc/sec if needed |
| **Scan delay** | 60 seconds |

**Mark rt side of face with BB.**

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| **NOTE*** | The Diagnositc Reference Dose (CTDI vol) is 75mGy(with 16cm CTDI phantom). The pass/fail limit (ACR and Washington state) is 80mGy. Most routine head scans on modern scanners have CTDIvol ranges between 40 and 60mGy. |
| | *The AAPM recommended NEXA XR29 Dose Notification Value for an adult head is 80mGy. The maximum CTDIvol should match the dose notification value. Exams with CTDI vol values less than the minimum allowed range should not be performed unless approved by a radiologist. |
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