

Access cavities

- Use burs & ultrasonics according to preference & availability
- Make the outline form with burs, then refine with ultrasonics
- Occlusal surfaces of premolars and molars are *not* perpendicular to roots but orientated to working cusps

Maxillary incisors

- Small (#2) round, surgical length tungsten carbide high speed bur
- Cut just in to enamel or restoration, stop and check if centred, position and direction
- Cut half way in to cingulum and just shy of incisal edge
- Pulp chamber will be just under cingulum (if in doubt, head lingually)
- Once in the pulp chamber, change to safe end cutting bur e.g. Laxness or Endo-Z
- With safe end cutting bur, make entry in to canal in the direction of the canal and upright whilst bur is rotating
- Make a slot then extend as necessary

Maxillary premolars

- Small (#2) round, surgical length tungsten carbide high speed bur
- Cut just in to enamel or restoration, stop and check if centred, position and direction
- Occlusal surfaces are not centred perpendicular to roots - skewed towards palatal
- Cut slot between buccal and palatal cusps, skewed towards working cusp, 1-2mm short of non-working cusp
- Drop in to pulp chamber then follow the outline with safe end cutting burs
- With safe end cutting bur, make entry in to each canal in the direction of that canal and upright whilst rotating
- Be mindful of 1,2 or 3 canals (the outline form will change)

Maxillary molars

- Larger (#4) round, surgical length tungsten carbide high speed bur
- Cut just in to enamel or restoration, stop and check if centred, position and direction
- Occlusal surfaces are not centred perpendicular to roots - skewed towards palatal
- Cut slot between mesio-buccal and palatal cusps, angled away from mesial tooth surface (check using straight-on radiograph or mesial root form), skewed towards working cusp, 1-2mm short of non-working (mesio-buccal) cusp
- Distal extent will not be distal to the buccal groove
- Drop in to pulp chamber then follow the outline with safe end cutting bur
- MB2 - Flatten mesial wall - mb2 orifice will be mesial to a straight line between mb1 and palatal orifice (cut mesio-apically NOT apically) - angle of the canal may be up to 45°
- With safe end cutting bur, make entry in to each canal in the direction of that canal and upright whilst rotating

Mandibular anteriors

- Small (#2) round, surgical length tungsten carbide high speed bur
- Cut just in to enamel or restoration, stop and check if centred, position and direction
- Cut half way in to cingulum and shy of incisal edge
- Pulp chamber will be just under cingulum (if in doubt, head lingually)
- Take care to look for lingual canals (30-50%)
- Once in the pulp chamber, change to safe end cutting bur
- Do not extend mesio-distally
- With safe end cutting bur, make entry in to each canal in the direction of that canal and upright whilst rotating

Mandibular premolars

- Small (#2) round, surgical length tungsten carbide high speed bur
- Cut just in to enamel or restoration, stop and check if centred, position and direction
- Occlusal surfaces are not centred perpendicular to roots - skewed towards buccal
- Cut slot between buccal and lingual cusps, skewed towards working cusp, 1-2mm short of non-working cusp
- Drop in to pulp chamber then follow the outline with safe end cutting bur
- With safe end cutting bur, make entry in to each canal in the direction of that canal and upright whilst rotating
- Be mindful of 1,2 or 3 canals (the outline form will change)

Mandibular molars

- Larger (#4) round, surgical length tungsten carbide high speed bur
- Cut just in to enamel or restoration, stop and check if centred, position and direction
- Occlusal surfaces are not centred perpendicular to roots - skewed towards working buccal
- Do not cut at right angles to occlusal surface
- Cut slot in central fossa, from mid-point cutting mesially to approx. 2.5mm from mesial tooth surface, distal will extend within 1mm beyond buccal groove
- Once in pulp chamber, orientation will be closer to buccal surface
- With safe end cutting bur, make entry in to each canal in the direction of that canal and upright whilst rotating