



L-Università ta' Malta
Faculty of Dental Surgery

Instrument List for MDS 1 Students

DENTAL INSTRUMENTS

FOR

CONSERVATIVE DENTISTRY

PERIODONTOLOGY

PROSTHODONTICS

CHILD DENTAL HEALTH AND ORTHODONTICS

ORAL MEDICINE, ORAL SURGERY AND ORAL
PATHOLOGY

Disclaimer

All pictures/photos featured in this document are intended to aid students and suppliers in understanding the specifications listed for each item. Pictures and photos have been obtained from catalogues and brochures of various manufacturers, or reflect what is currently being used at the Faculty of Dental Surgery Teaching Clinics, but in **no way imply that any one brand is preferred over another**, as long as the listed specifications are met.

Students are free to approach different suppliers and obtain quotes for the listed instruments/equipment. It is advisable that the students' preferred quotation be reviewed by the Heads of Department prior to the purchase to ensure conformity with the listed specifications.

***Two** preset composite trays for operative dentistry, **one** set of handpieces is required from the beginning of the 2nd Semester of Year 1 of studies; **two** sets of handpieces and other items marked with an * will be needed from the beginning of the 3rd year of studies.*

*Items marked with ** will be needed from the beginning of the 4th year of studies.*

Students may opt to purchase these items upon successful progression to the 3rd and 4th year of studies, respectively.

However, the Faculty recommends discussing this with suppliers, with respect to timely ordering and delivery, as well as the applicability of any special deals and offers.

Instruments to assemble four basic diagnostic kits

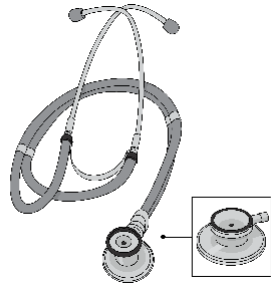
NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Mouth mirrors	Size 4. Flat. Front surface reflecting.	4	
	Mirror handles.	4	
Periodontal probes	WHO-C CPITN probe. Clinical CPITN probe with markings at 3.5, 5.5, 8.5 and 11.5mm.	4	
College tweezers	Non-locking. Angled beak with serrated edges.	4	

Instruments to assemble two preset kits for periodontal treatment

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Periodontal probes	UNC-15 periodontal probe. University of North Carolina 15mm perio probe.	2	
	Nabers furcation probe – Q2N variant. Shallow curve at working end and colour coding at 3, 6, 9 and 12 mm. Double-ended.	2	
Mouth mirrors	Size 4. Flat. Rear surface reflecting.	2	
	Mirror handles.	2	
Hand scalers	Sickle Scaler, H6 / H7 (super thin). Contra-angle design. Balanced double-ended. Durable cutting edges of the latest technology. Handle design: wide with a tapered shaped and knurling pattern / silicon grip.	2	

	Anterior Columbia Universal Curette, 2R / 2L. Balanced double-ended. Durable cutting edges of the latest technology. Handle design: wide with a tapered shaped and knurling pattern / silicon grip.	2	
	Posterior Columbia Universal Curette, 4R / 4L. Two cutting edges and a rounded toe. Double-ended. Durable cutting edges of the latest technology. Handle with good grip.	2	
Instrument cassettes	Mini stainless steel instrument cassette. 182mm x 72mm x 34mm. Locking tray for 5 instruments. Complete with coloured silicone insert frame.	2	

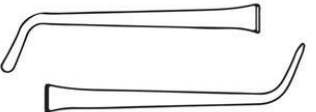
Equipment for medical assessment **

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Stethoscope	Binaural. Double cup, with two diaphragms for dual use (adult and paediatric auscultation). Tube impervious to outside noises for full transmission of sound, with good auditive quality. Latex-free.	1	
Tourniquet	Quick release medical tourniquet.	1	

Instruments to assemble two preset composite trays for operative dentistry *

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Instrument trays	Instrument tray base. Aluminium silver. Perforated. 284mm x 183mm x 17mm.	2	
Instrument racks	Instrument tray rack. Aluminium silver. Insert frame for 11 instruments.	2	
Mouth mirrors	Size 4. Flat. Front surface reflecting.	4	
	Mirror handles.	4	
Probes	Single-ended. Straight.	2	
College tweezers	Non-locking. Angled beak with serrated edges.	2	
Excavators	Double-ended. Disc-shaped. Head size 1.7mm.	1	
	Double-ended. Pear-shaped. Head size 2.5mm.	1	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Chisels and Hatchets	Tungsten carbide tips. Blacks 77/78 distal gingival margin trimmer with 1.5mm cutting tip.	2	
	Tungsten carbide tips. Blacks 79/80 mesial gingival margin trimmer with 1.5mm cutting tip.	2	
	Tungsten carbide tips. Blacks 53/54 contra-angle chisel with 1mm cutting tip.	2	
Plastic filling instruments	Double-ended. Largest size working ends.	1	
	Double-ended. Smallest size working ends.	1	
	Double-ended. Medium size working ends both angled.	1	
	Double-ended. Ladmore burnisher one end approx 1mm; Plastic instrument other end approx 2mm.	1	
Carvers	Wards No. 2.	2	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Burnishers	Double-ended. Baldwin (equivalent to ASH 49).	2	
	Double-ended. Ladmore No. 2.	2	
	Double-ended. Ball. Different working end sizes +/- 2mm.	2	

Instruments to assemble one preset tray for endodontics *

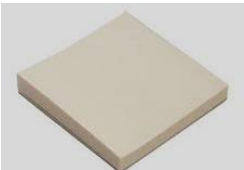
NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Instrument tray	Instrument tray base. Aluminium silver. Perforated. 284mm x 183mm x 17mm.	1	
Instrument rack	Instrument tray rack. Aluminium silver. Insert frame for 8 instruments.	1	
Mouth mirror	Size 4. Flat. Front surface reflecting.	1	
	Mirror handle.	1	
Probes	Single-ended. Straight.	1	
	Endodontic explorer DG16. Double-ended.	1	
College tweezers	College tweezers locking with metal catch. Grooved tips.	1	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Excavator	Excavator 31L (long shank): Elongated spoon shaped blade 1.6mm width. Terminal shank 15mm long set at a 50° angle to handle centre line.	1	
Carver	Wards No. 2.	1	
Endo plugger	Glick #1 endo plugger: plugger at one end & plastic instrument at other end.	1	
Endo clean stand	Diameter approximately 40mm. Height approximately 30mm. Autoclavable.	1	
Endo measuring ruler	Measuring finger ruler for endodontics. Autoclavable plastic or stainless steel. Must be ordered for a left handed or right handed operator.	1	

Conservative dentistry loose instruments and equipment

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Mouth mirrors	Size 2. Flat. Front surface reflecting.	2	
	Mirror handles.	2	
Probe	Briault.	2	
College tweezers	Non-locking. Angled beak with serrated edges.	2	
Kidney dishes	Stainless steel. Small – approximately 200mm x 90mm.	2	
Cement spatulas	Double-ended. Medium-sized with 2 differently shaped working ends.	2	
Calcium hydroxide applicator	Single-ended.	1	
Carver	Wards No. 1.	1	

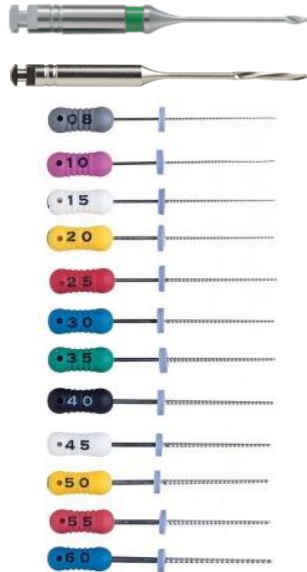
NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Amalgam pluggers	Double-ended. Working ends smooth. Large – diameter approximately 2.5mm one end and 2.7mm other end.	1	
	Double-ended. Working ends smooth. Small – diameter approximately 1.2mm one end and 1.5mm other end.	1	
Amalgam carrier	Plastic. 45 degree tip.	1	
Dappen glass	Transparent.	2	
Matrix band retainers	Nystrom retainer No 1 (right).	1	
	Nystrom retainer No 2 (left).	1	
Matrix band	Matrix band roll 5mm width, 0.05mm thickness.	1	
	Matrix band roll 6mm width, 0.05mm thickness.	1	
Wedges	Wooden wedges. Assorted box X 100 pieces.	1	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Cellulose acetate strip	Strip roll. 8mm width.	1	
Sectional matricing instruments	Set of sectional matricing instruments consisting of: 2 ring for molars. 2 ring for premolars. 1 ring forceps. 1 special tweezers to handle matrices and wedges.	1 set	
Mixing pad	Approximately 6cm x 6cm.	1	
Glass slab	Approximately 12cm x 8cm.	1	
Endo sponges	Refill sponges for clean stand.	25 pcs	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Scissors	Straight scissors.	1	
	Crown shears (curved).	1	
Rubber dam forceps	Stokes or Ivory.	1	
Rubber dam puncher	Ainsworth rubber dam hole puncher.	1	
Rubber dam frame	Plastic. Nygaard-Ostby.	1	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Rubber dam material	Pre-cut squares approximately 15cmx15cm Box/pkt of approximately 30 pieces. Latex free. Powder free.	1	
Rubber dam clamps	Figure 0: Winged clamp with high bow, small jaws. Suitable for small teeth, elongated or with narrow necks.	1	
	Figure 1: Winged clamp with jaws adjustable according to gingival line shape. Suitable for general use, mainly upper premolars.	1	
Rubber dam clamps cont.	Figure 2: Winged clamp with flat jaws. Suitable for general use, mainly lower premolars with elongated necks.	1	
	Figure 2A: Winged clamp with broad jaws. Suitable for premolars with broad necks.	1	
	Figure 3: Winged clamp with narrow, flat jaws. Suitable for small lower molars.	1	

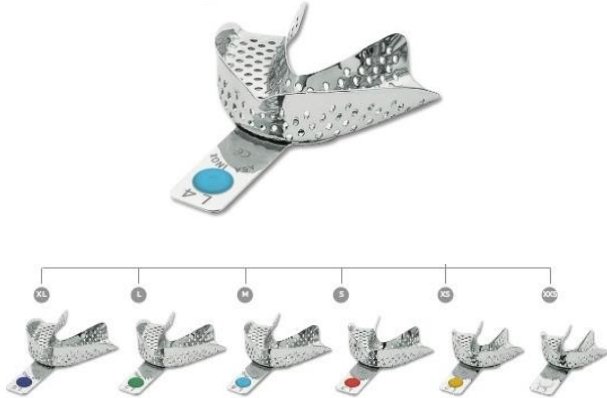
	Figure 4: Winged clamp with narrow jaws. Suitable for small upper molars and molars with round necks.	1	
	Figure 7: Winged clamp with medium sized bow and flat jaws. Suitable for lower general purpose, mainly square-shaped lower molars.	1	
	Figure 8: Winged clamp with jaws made to fit gum line curvatures. Suitable for upper general purpose, mainly round upper molars.	1	
Rubber dam clamps cont.	Figure 9: Winged labial/butterfly clamp. Suitable for all anterior teeth.	1	
	Figure 202: Winged clamp. Suitable for big upper molars.	1	
Wedjets	Assorted sizes (small and large)		

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Bur box	Takes both friction grip & latch-type burs With lid Autoclavable Takes 30 burs or more	1	
Endo stand / box *	Aluminium stand in stainless steel container. Takes up to 40 endo files. Autoclavable.	1	
Endodontic instruments *	Set of endo instruments as follows: 6 x Gates Glidden drill #2, 28mm length, tip diameter 0.7mm. 6 x Peeso Reamer #2, 28mm length, tip diameter 0.9mm. 12 x K-file, stainless steel, 25mm length, ISO #08. 12 x K-file, stainless steel, 25mm length, ISO #10. 6 x K-file, stainless steel, 25mm length, ISO #15. 3 x K-file, stainless steel, 25mm length, ISO #20. 3 x K-file, stainless steel, 25mm length, ISO #25. 3 x K-file, stainless steel, 25mm length, ISO #30. 3 x K-file, stainless steel, 25mm length, ISO #35. 3 x K-file, stainless steel, 25mm length, ISO #40. 2 x K-file, stainless steel, 25mm length, ISO #45. 2 x K-file, stainless steel, 25mm length, ISO #50. 1 x K-file, stainless steel, 25mm length, ISO #55. 1 x K-file, stainless steel, 25mm length, ISO #60.	1 set	
Lentulo spiral fillers	Set of 4 lentulo spiral fillers / paste carriers: red, blue, green, black. 25mm length.	1	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Burs for tooth preparation	Set of burs as follows: 1 x ISO 806 314 110 524 008 1 x ISO 806 314 110 524 010 1 x ISO 806 314 110 524 012 1 x ISO 806 314 001 524 008 1 x ISO 806 314 001 524 012 1 x ISO 806 314 001 524 016 1 x ISO 500 313 237 008 1 x ISO 500 314 137 007 010 1 x ISO 806 315 219 534 (non-end cutting endo bur – Fig. 1) 1 x ISO 500 204 001 001 008 1 x ISO 500 204 001 001 010 1 x ISO 500 204 001 001 012 1 x ISO 500 204 001 001 014 1 x ISO 500 204 001 001 016 1 x ISO 500 204 001 001 018 1 x ISO 500 204 001 001 020 1 x ISO 500 204 001 001 023 1 x ISO 500 205 001 001 010 1 x ISO 500 205 001 001 014 1 x ISO 500 205 001 001 018 1 x ISO 500 204 107 006 008 1 x ISO 500 204 107 006 010 1 x ISO 500 314 237 006 008	3 sets	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Composite finishing & polishing items	Set of diamond composite finishing burs, such as Intensiv Composhape Set Anterior & Posterior, or Stoddard diamond composite set, or equivalent.	1	
	Pre-mounted, single use, aluminium oxide impregnated, resin finishers. Assortment of 10 points, 10 cups, and 10 discs.	1	
	Standard mandrel.	1	
Composite finishing & polishing items cont.	Assorted kit of discs including: extra coarse, coarse/medium, fine, extra fine grits. Discs with diameter 16mm.	1 kit	
	Finishing and polishing abrasive strips. Width approximately 4mm. Coarse and medium grits on either side of the same strip, separated by small length of cellulose.	1 pkt	

Prosthodontics loose instruments and equipment

NAME OF ITEM	SPECIFICATIONS		QTY	PICTURE
Probes	Double-ended AMP No. 5.		4	
Impression trays	Dentate perforated stock trays. Regular design. Stainless steel. Rounded edges, NOT thick. Without rim.	Upper size 1 approx. W61 x L47 mm.	2	
		Upper size 2 approx. W64 x L51 mm.	4	
		Upper size 3 approx. W66 x L53 mm.	4	
		Upper size 4 approx. W69 x L57 mm.	4	
		Upper size 5 approx. W71 x L60 mm.	2	
		Upper size 6 approx. W73 x L62 mm.	2	
		Lower size 1 approx. W55 x L47 mm.	2	
		Lower size 2 approx. W60 x L49 mm.	4	
		Lower size 3 approx. W72 x L54 mm.	4	
		Lower size 4 approx. W74 x L57 mm.	4	
		Lower size 5 approx. W76 x L59 mm.	2	
		Lower Size 6 approx. W78 x L61 mm.	2	

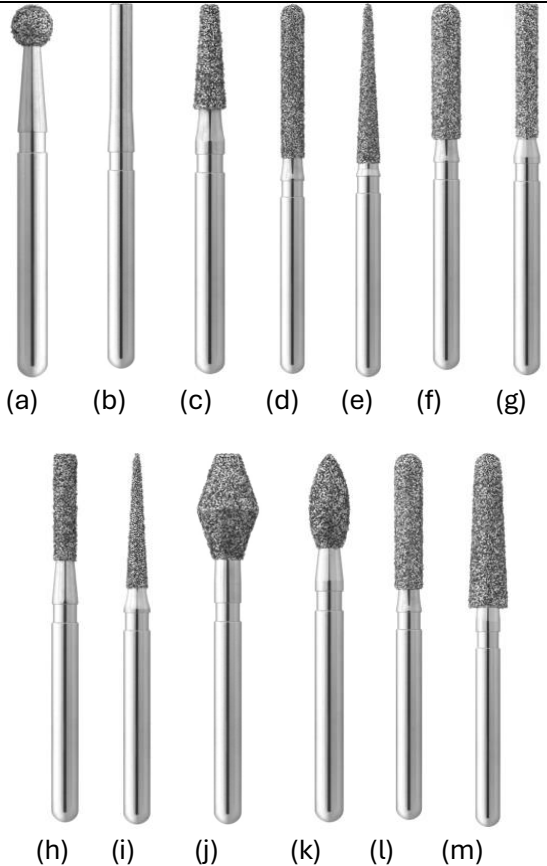
NAME OF ITEM	SPECIFICATIONS		QTY	PICTURE
Impression trays cont.	Sectional/partial impression trays.* Regular design, perforated. Stainless steel. With rim and rounded edges.	Anterior upper; approx. W67 x L37 mm.	3	
		Anterior lower; approx. W64 x L38 mm.	3	
		Upper right / lower left; approx. W44 x L62 mm.	3	
		Upper left / lower right; approx. W44 x L62 mm.	3	
	Edentulous perforated stock trays.* Regular design. Stainless steel. Rounded edges, NOT thick. Without rim.	Upper size 1 approx. 60 x 50mm.	4	
		Upper size 2 approx. 64 x 54mm.	4	
		Upper size 3 approx. 68 x 58mm.	4	
		Upper size 4 approx. 70 x 60mm.	4	
		Upper size 5 approx. 78 x 64mm.	4	
		Lower size 1 approx. 60 x 54mm.	4	
		Lower size 2 approx. 67 x 55mm.	4	
		Lower size 3 approx. 70 x 56mm.	4	
		Lower size 4 approx. 74 x 58mm.	4	
		Lower size 5 approx. 76 x 60mm.	4	
		Lower size 6 approx. 80 x 62mm.	4	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Alginate mixing bowls	Silicone. 120mm diameter.	2	
Spatulas	Alginate mixing spatula. Rigid. Stainless steel, blunt, curved blade. Wooden or resin handle.	2	
	Plaster mixing spatula. Rigid. Stainless steel, blunt, flat blade. Wooden handle.	1	
Gauges*	Willis bite gauge. 100mm measurement scale on both sides. Reversible for nasal spine to lower mandible or point measurement. Autoclavable.	1	
	Iwanson callipers. 100mm measurement scale. Model I (for rigid materials). Stainless steel.	1	
Plaster knives	Gitman plaster knife. 17cm.	1	

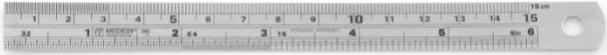
NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Wax knives	Lessman. Large, approximately 17.5cm.	2	
	Fahnenstock. Small, approximately 12.5cm.	2	
Carvers	Le Cron carver.	2	
	Wax carver no. 5.	1	
Bite plane*	Fox's bite plane. Plastic. Autoclavable.	2	
Artery forceps*	Spencer wells. Straight.	2	
Articulating paper forceps*	Miller forceps. 15cm. Straight.	2	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Flame torch	Portable butane gas flame torch. Handheld.	1	
Portable gas stove	Portable single burner stove (from ironmongery / camping shop) Adjustable burner. Plastic base that accepts gas refill cartridges. Auto ignition. Including butane/propane gas cannister.	1	
Pliers	Wire cutting pliers. Side cutters (from ironmongery)	1	
Scraper	Paint scraper (from ironmongery). At least 10cm wide.	1	

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Aluminium trays	Aluminium disposable trays (from supermarket) Recyclable. Approximately 30cm x 20cm.	1 pkt	
Burs for the conventional 1:1 slow speed straight handpiece	Set of long shank, carbide, acrylic cutting/trimming burs, such as Stoddard Carbide Cutter Set 6002, or equivalent.	2 set	
	Long shank, carbide steel, taper shape, plaster and stone trimming bur.	2	

Bur boxes with crown preparation burs**	Autoclavable bur box, with lid, complete with the following crown preparation burs: 1 x ISO 806 314 001 524 027 (Picture a) 1 x ISO 806 314 150 524 014 (Picture b) 1 x ISO 806 314 171 524 018 (Picture c) 1 x ISO 806 314 142 524 012 (Picture d) 1 x ISO 806 314 142 524 016 (Picture d) 1 x ISO 806 314 167 524 012 (Picture e) 1 x ISO 806 314 141 524 014 (Picture f) 1 x ISO 806 314 111 524 014 (Picture g) 1 x ISO 806 314 110 524 014 (Picture h) 1 x ISO 806 314 165 524 012 (Picture i) 1 x ISO 806 314 039 524 037 (Picture j) 1 x ISO 806 314 257 524 023 (Picture k) 1 x ISO 806 314 141 514 013 (Picture l) 1 x ISO 806 314 141 514 018 (Picture l) 1 x ISO 806 314 141 514 019 (Picture l) 1 x ISO 806 314 141 524 020 (Picture l) 1 x ISO 806 314 141 504 018 (Picture l) 1 x ISO 806 314 199 504 020 (Picture m)	1 set	 (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m)
---	--	--------------	--

Orthodontics loose instruments^{*}

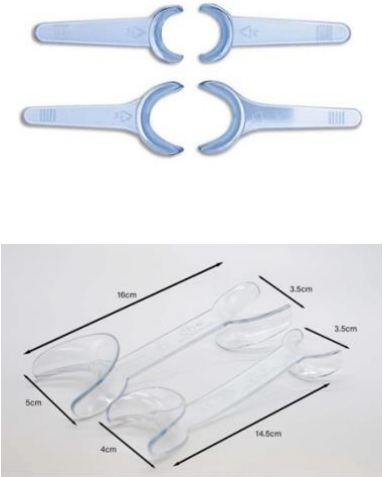
NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Impression trays	<i>(Can use same ones as prosthodontics)</i>		
Pliers	Adam's pliers (squared beaks).	2	
	Spring forming pliers.	2	
Orthodontic rulers	Ruler for measuring overjet. 150mm length. Stainless steel.	2	
Vernier calipers	Must include metric scale, 150mm. Stainless steel. Manual or digital.		
Pencil	Chinagraph. Black.	2	

General Equipment and Other Items

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Handpieces *	Coupling: Sirona type, 4-hole, Light optional, however recommended	1	
	High speed handpiece (air turbine): Must fit Sirona coupling. <i>If not, student will be unable to benefit from Faculty's handpiece maintenance and sterilisation services.</i>	3	
	Contra-angle 1:1 blue band slow speed handpiece: Up to 40,000 rpm With internal spray and Light	3	
	Straight 1:1 blue band slow speed handpiece	2	
Handpiece lubricant	Brand compatible with brand of handpieces. Including lubrication nozzles. Can be shared between whole class:	2	
Code rings	Silicone instrument identification rings. Different colour/s for each student.	To code all listed items.	
Dental Simulator Face Mask	Face mask for dental manikin. Must be compatible with Kavo Dental Patient Simulators.	1	

Camera Equipment and Associated Items

NAME OF ITEM	SPECIFICATIONS	QTY	PICTURE
Camera	1. Camera Body A high-quality DSLR or mirrorless camera for dental photography 2. Macro Lens A dedicated macro lens for capturing detailed close-up images of teeth and the oral cavity. For optimal results, select a lens with a focal length of 90–105 mm and a 1:1 magnification ratio. 3. Ring Flash or Twin Flash To provide consistent, high-quality lighting for accurate clinical photography. Ring flashes (encircling the lens) and twin flashes (mounted on either side of the lens) are the most common systems, as they provide uniform, shadow-free illumination while minimizing glare and reflections on dental surfaces. Examples 1. Camera Body: Popular options include the Canon EOS R and Nikon D7500, both widely used by dental professionals 2. Macro Lens: Models specifically suited for dental applications include the Canon EF 100mm f/2.8L Macro IS USM, the Nikon AF-S VR Micro-NIKKOR 105mm f/2.8G IF-ED and Sigma 105mm F2.8 EX DG OS HSM Macro for Canon and Nikon 3. Ring Flash or Twin Flash: Recommended options include the Canon MR-14EX II Macro Ring Lite, the Nikon R1C1 Wireless Close-Up Speedlight System, or the Godox MF12-K2 Twin Flash System (compatible with Canon and Nikon).	1	

Dental mirrors and Cheek retractor	Mirror should have a solid chrome coating on 3mm transparent glass – or High quality stainless steel with Mirror-polish surface Clear reflection and durability. These mirrors withstand repeated steam and autoclave sterilization. Autoclavable up to 138° C. Set should include Buccal, Lingual, palatal/ Occlusal mirrors for Adult and Child patients	1 set	
Dental Cheek retractor	Double or single-ended retractors Retractors should have varied dimensions for Adult and Child patients These retractors should withstand repeated steam and autoclave sterilization. Autoclavable up to 138° C.		
SD card for the camera and a card reader	SD card with a minimum of UHS U1 or U3 (or V30) speed class	1	