University of California, San Diego Pre-Dental Society

DENTAL INSTRUMENT PACKET

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CREATED BY: SUMEI MAI

SUPERVISED BY: DR. RANDALL TAYLOR

BASIC TRAY SETUP



Dental Tray Instrument:

To provide an area specific for **Function:**

instruments

Characteristics: Different designs for different

procedures, e.g. hygiene tray,

operative tray, surgical tray.



Mouth Mirror Instrument:

Function: To provide indirect vision

> To retract lips, cheeks, and tongue To reflect light into the mouth

Characteristics: Accurate image from flat surface

mirrors, image magnified with

concave mirrors.



Instrument: **Cotton Forceps**

To Grasp and/or transfer **Function:**

material in and out of the oral

cavity.

Characteristics: Plain or serrated tips

variety of sizes, angled tip.



Explorers Instrument:

Function: To Examine teeth for decay

> (caries), calculus, furcation, or canals and other anomalies

Characteristics: Pointed tips: sharp, thin and

flexible.

1. Orbin; 2. Shepherds; 3. Pigtail



Perioprobe Instrument:

Function: An instrument with incremental

> marks on the tip to measure the periodontal pockets

Characteristics: Designed with different

increments, e.g. 1mm, 3 mm,

PSR probe



Bib holder Instrument:

Function: To attach the patient bib around

the patient's neck

Characteristics: Disposable snap/adhesive clips

Alligator clip (not disposable)

BASIC TRAY SET UP



Instrument: Instrument Handles

Function: Handles for detachable

instrument, heads screw into

handle

Characteristics: E.g. mouth mirror



Instrument: Patient Bib

Function: To prevent materials, debris, fluids

from contacting the patient

Characteristics: Differs in colors, shapes and

designs; has a protective liquid barrier side and an absorbent

side



Instrument: Cotton Rolls

Function: To isolate teeth and absorb saliva

Act as a protective tissue barrier; aid in endodontic diagnostics

Characteristics: Fluid absorbent roll ~ 1 in long



Instrument: 2 x 2 gauze

Function: Absorbent cloth, aid in

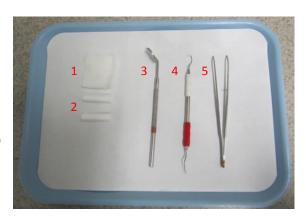
homeostasis, clean instruments, used in all aspects of dentistry

Characteristics: 2 x 2 inches in size, white,

thinly/thick woven absorbent

fiber

- 1. 2x2 Gauzes
- 2. Cotton Rolls
- 3. Mouth Mirror
- 4. Explorer
- 5. Cotton Forcep



Basic Tray Set - Up

BASIC DENTAL INSTRUMENTS, SUPPLIES & SETUPS



Instrument: High Velocity Saliva

Evacuation (HVE)

Function: To evacuate large volumes of fluid

and debris from oral cavity

Characteristics: Straight or slightly angled at one

or both end; stainless steel, autoclavable plastic, or disposable plastics; attaches to tubing on

dental unit



Instrument: Low Velocity Saliva

Evacuation (LVE)

Function: To evacuate reduced volumes of

fluid from oral cavity

Characteristics: Disposable plastic for single use;

can be bent or used straight; attaches to tubing on dental unit



Instrument: Air/Water Syringe Tip

Function: To rinse and dry specific teeth or

entire oral cavity

Characteristics: Three-way syringe: air, water, or

spray with water and air; Syringe

tip: Disposable plastic or

autoclavable metal; attaches to air/water syringe on dental unit

HYGIENE SET UP FOR PROPHY AND SRP



Instrument: Ultrasonic Scaler Unit

Function: To use with water-cooled

ultrasonic tips, to remove calculus

Characteristics: Has ultra-high frequency tip

movement that also sprays water, attaches to dental chair



Instrument: Ultrasonic Scaler Tips

Function: To remove supra/subgingival

calculus on teeth, remove bacteria from periodontal pockets and stain.

Characteristics: Used with Ultrasonic Scaler Unit,

water is used to cool tips, 25 k 30 k size tips. Not interchable



Instrument: Universal Curette

Function: To Scale and remove deposits

and stain, remove calculus

Characteristics: Blade has two cutting edges,

rounded toe, round on the back

Single or double ended.



Instrument: Area-Specific Curette

Function: To scale and remove deposits

from specific sub gingival surfaces.

Characteristics: Anterior and Posterior specific

curettes



Instrument: Sickle Scaler

Function: To remove large amounts of

deposits from supragingival surfaces, ideal for anterior

interproximal area

Characteristics: Variety of sizes, sharp edges with

sharp point.



Instrument: 0.12 % Chlorhexidine

Function: Oral rinse before treatment, aid

with lowering patients oral

bioburden

Characteristics: Blue or Pink liquid, 15 ml oral

rinse before and after cleaning

HYGIENE SET UP FOR PROPHY AND SRP



Instrument: Prophy Cup & Paste

Function: To polish coronal surface after

cleaning or before certain operative procedures

Characteristics: Different prophy cups/points

fluoridated or non-fluoridated

pastes, also differ in grit



Instrument: Fluoride Varnish

Function: To decrease post cleaning

sensitivity, remineralize incipient carious lesions, caries prevention

Characteristics: Differs in color, sticky, resin based,

some patients may be allergic to the

resin in the varnish



Instrument: Patient Tooth Brush

Function: To allow the patient to continue

good oral home care

Characteristics: Soft bristle tooth brush



Instrument: Patient Floss

Function: To allow the patient to continue

good oral home care

Characteristics: Waxed or non-waxed floss



Instrument: Prophy Angle

Function: To polish teeth with prophy cup or

brush

Characteristics: An attachment for straight or

prophy handpiece; types: prophy cup for polishing all surfaces of teeth, prophy brush for polishing occlusal surfaces and lingual surfaces of anterior teeth

Prophylaxis Tray Set-Up



- 1. Cavitron Tip
- 2. Mouth Mirror
- 3. Perioprobe
- 4. Scalars
- 5. Straight Nose
- 6. Prohpy Angle
- 7. Prophy Paste
- 8. 2x2 Gauzes
- 9. Cotton Rolls
- 10. Floss

SRP (Scaling and Root Planing) Tray Set-up



- 1. Cotton Rolls
- 2. 2x2 Gauzes
- 3. Topical Anesthetic
- 4. Long Needle
- 5. Short Needle
- 6. Anesthetic Carpule
- 7. Chlorohexidine
- 8. Syringe
- 9. Floss

- 10. Mouth Mirror
- 11. Perioprobe
- 12. Scalars
- 13. Cavitron Tip



Q-tip Instrument:

Function: To apply topical anesthetic, bite

stick, aid in perio and endo

diagnostics

Characteristics: cotton tipped wooden/plastic

stick



Topical Anesthetic Instrument:

Function: To aid in painless anesthesia

Characteristics: Gel consistency, applied with

Q-tip to the injection site, differs

in color and taste



Lidocaine - Red Instrument:

Function: An anesthetic with epinephrine

Characteristics: 2 % Lidocaine 1:100,000

epinephrine; has a red band on the

carpule; most used anesthetic



Polocaine - Tan Instrument:

Function: A non-epinephrine anesthetic,

> used when patients can't have epinephrine, e.g. HTN patients

Characteristics: 3 % Polocaine Plain; has a tan band

on the carpule



Anesthetic Needle Instrument:

Function: To inject anesthetic into soft

tissue

Characteristics: Varies in Gauge and Length

Typically short for maxillary Typically long for mandibular



Needle Stick Protector Instrument:

Function: To hold needle sheath for

> one-handed recapping after injection, Prevent needle stick

Characteristics: Metal and card board protector



Instrument: Anesthetic Syringe

Function: To administer local anesthetic

Characteristics: Aspirating and self-aspirating

syringe. Aspirating syringes have a barb that inserts in the carpule



Instrument: Amalgam Capsule

Function: Material used to restore a cavity,

build up for crown

Characteristics: Contains amalgam, has to be

triturated, times differ on types

of amalgams



Instrument: Amalgam Well

Function: To hold amalgam before it is

placed in the preparation

Characteristics: Metal, plastic, or glass



Instrument: Amalgam Carrier

Function: To carry and dispense amalgam

for cavity preparation

Characteristics: Amalgam is placed in hollow

tubes, and is then placed in cavity preparation, double or

single sided



Instrument: Hatchet

Function: An instrument to accentuate

line and point angles of internal and external outlines, remove

unsupported enamel

Characteristics: Cutting edges at differing angles



Instrument: Smooth Condenser

Function: To pack and condense amalgam

into cavity preparation

Characteristics: Has smooth ends, round, flat,

small and large sizes, single or

double sided



Instrument: Serrated Condenser

Function: To pack and condense amalgam

into cavity preparation

Characteristics: Ends are serrated, round, flat,

small and large sizes, single or

double sided



Instrument: Interproximal Condenser

Function: To pack and condense amalgam

into interproximal areas of the

cavity preparation

Characteristics: Ends are shaped to fit in the

mesial or distal box. Smooth or

serrated ends



Instrument: Football Burnisher

Function: To smooth Amalgam after

condensing, to contour matrix band, to burnish amalgam

Characteristics: Smooth football shaped metal

instrument, single or double

sided



Instrument: Acorn Burnisher

Function: To smooth amalgam after

condensing, used to create occlusal anatomy, burnish

amalgam

Characteristics: Acorn shaped tip, metal, single or

double sided



Instrument: T-Ball Burnisher

Function: To Smooth amalgam after

condensing; to contour matrix band, initiate carving and occlusal

anatomy

Characteristics: Smooth metal, has a ball and paddle

single or double sided



Instrument: Beavertail Burnisher

Function: To smooth amalgam after

condensing; to burnish the lingual,

facial amalgam walls of a

restoration

Characteristics: Similar shape to beaver tail,

smooth metal, single or double

sided



Instrument: Ball Burnisher

Function: To smooth amalgam after

condensing

To contour matrix band before

amalgam placement

Characteristics: Burnishes alloy restorations,

single or double sided



Instrument: Tanner Carver

Function: To carve occlusal anatomy into

amalgam restorations

Characteristics: Double ended, ends are shaped

to carve alloy restorations, sharp



Instrument: Discoid-Cleoid Carver

Function: To carve occlusal anatomy into

amalgam restorations

Characteristics: Double ended; Discoid is disk

shaped; cleoid is pointed, sharp



Instrument: Woodson

Function: Used as a burnisher and

condenser

Characteristics: Doubled ended, one end a

condenser while other is paddle

shaped



Instrument: Hollenback Carver

Function: To contour and carve occlusal

and interproximal anatomy in

amalgam restorations

Characteristics: Double ended, sharp stiff metal

blade, sharp point; ends are

protrude at different angles; carves

other restorative materials



Instrument: Half-Hollenback Carver (2)

Function: To contour and carve occlusal

and interproximal anatomy in

amalgam restorations

Characteristics: Half the size of Hollenback (1);

double ended, sharp stiff metal blade, sharp point; ends are

protrude at different angles; carves

other restorative materials

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Instrument: Articulating Paper Holder

Function: To Place Calcium Hydroxide or Glass

Ionomer

Instrument: Dycal/Liner Applicator

Characteristics: Has short or long handle, similar

to a tiny ball burnisher

Function: To hold articulating paper in

checking patients bite

Characteristics: Articulating paper is blue or

red, thin to thick



Instrument: Tofflemire/Matrix Band

Retainer

Function: To maintain stability of matrix

band during condensation of

restorations

Characteristics: Has a guide slot, spindle, outer

and inner knob



Instrument: Matrix Band

Function: To replace missing proximal walls of

cavity preparation for condensation

of restorative material

Characteristics: Universal, premolar, molar, and

pediatric bands



Instrument: Interproximal Knife

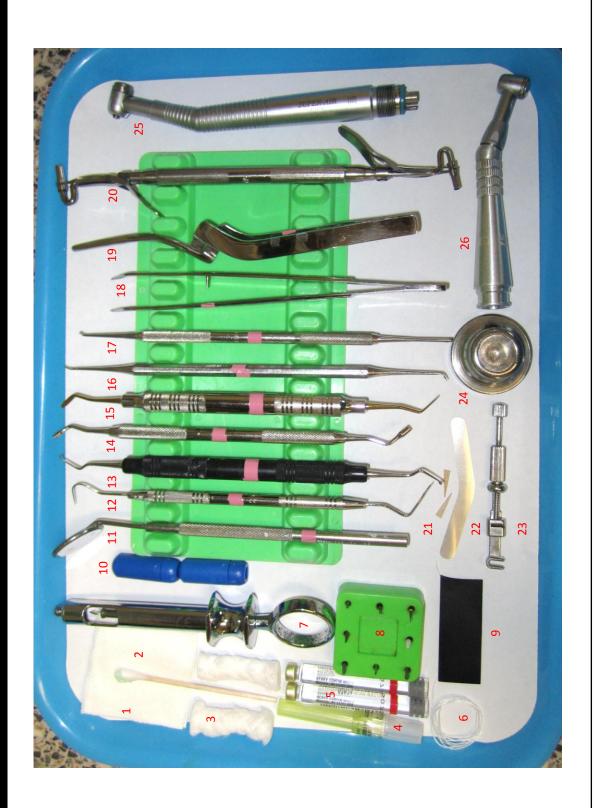
Function: To Carve interproximal walls

of amalgams, to restore contour

of proximal walls

Characteristics: Double ended, Sharp carving

hard metal blade



AMALGAM TRAY SET-UP INSTRUMENTS

- 1. 2x2 Gauzes
- 2. Topical Anesthetics
- 3. Cotton Rolls
- 4. Needle
- 5. Anesthetic Carpules
- 6. Floss
- 7. Syringe
- 8. Restorative Bur Block
- 9. Articulating Paper
- 10. Amalgam pellets
- 11. Mouth Mirror
- 12. Explorer/Perioprobe
- 13. Spoon Excavator
- 14. Condenser
- 15. Plastic
- 16. Discloid-Celoid Carver
- 17. Ball Burnisher
- 18. Cotton Forcep
- 19. Articulating Paper Holder
- 20. Amalgam Carrier
- 21. Wood Wedges
- 22. Matrix Band
- 23. Tofflemier
- 24. Amalgam Well
- 25. High Speed Handpiece
- 26. Low Speed Handpiece

RUBBER DAM TRAY SET-UP



RUBBER DAM TRAY SET-UP INSTRUMENTS

- 1. Rubber Dam
- 2. Clamp holder
- 3. Rubber Dam Holder
- 4. Rubber Dam Hole Puncher
- 5. Clamp



Instrument: Spoon Excavator

Function: To remove carious dentin

To remove temp cement,

provisional crowns

Characteristics: Spoon-shaped with a cutting

edge, small and large sizes



Instrument: Wood Wedges

Function: To hold matrix band in place

along gingival margin of class II

Characteristics: Triangular or rounded plastic or

wooden, various sizes and color



Instrument: Plastic Instrument

Function: To carry composite material for

cavity preparation, and shape composite, not for any other use

Characteristics: Specially coated instrument, not

for amalgam or any other use



Instrument: Micro Brush

Function: Use to apply primer, dentin bond

enamel bond, sealants

Characteristics: Small plastic instrument with

small fiber bristled head



Instrument: Mylar Strip

Function: Thin clear strip used to isolate cavity

prep, able to use cure light

Characteristics: Similar size to matrix band, clear



Instrument: Composite Well

Function: Plastic well used to hold composite,

etch, bond, cavity conditioner

Characteristics: Plastic well, smaller than amalgam

well



Instrument: Curing Light

Function: To harden light-cure materials,

bonding, composites, sealants,

cements, build up

Characteristics: Material must be cured in

increments of 2 mm or less, need to

be above 300 wavelength



Instrument: Protective Eye Wear

Function: To protect operator's and

assistant's eyes during procedures

Characteristics: Orange, dark, clear, protects

eyes



Instrument: Finishing Strips

Function: To finish and smooth

interproximal surfaces

Characteristics: Differs in grit, coarse, fine, extra

fine. Abrasive



Instrument: Bonding Agents

Function: Acts as an adhesive between the

tooth and the composite material

Characteristics: Differs in generation, all in one

unit, 3 step, 2 step, brands require

different techniques



Composite Tray Set-up Instruments

- 1. 2x2 Gauzes
- 2. Topical Anesthetic
- 3. Anesthetic carpules
- 4. Needle
- 5. Cotton Rolls
- 6. Syringe
- 7. High Speed Handpiece
- 8. Restorative Bur Block
- 9. Cotton Forcep
- 10. Floss
- 11. Hand Mirror
- 12. Perioprobe
- 13. Spoon Excavator
- 14. Acorn Burnisher
- 15. Ball/ Football Burnisher

- 16. Condenser
- 17. Plastic Instrument
- 18. Discloid-Cleoid Carver
- 19. Beavertail Carver
- 20. Bonding Agents
- 21. Microbrush
- 22. Mixing Well
- 23. Articulating Paper
- 24. Wooden Wedges
- 25. Matrix Band
- 26. Packable Composite
- 27. Tofflemire
- 28. Flowable Composite
- 29. Etch
- 30. Slow speed

Restorative Bur Block



- 1. Football
- 2. Round Bur
- 3. Latch Round Bur
- 4. Diamond Round-Nosed
- 5. White Stone
- 6. 330
- 7. 557
- 8. Diamond Tree Top



Instrument: Etch

Function: To remove the smear layer,

prepare the tooth for bonding

Characteristics: Differs in color and pH level.

Concentrations of Phosphoric Acid ~ typically 37 % and blue



Instrument: Cavity Conditioner

Function: Works similar as etch, used to

prepare the tooth for a Glass

Ionomer restoration

Characteristics: 20 % Polyacrylic Acid, Deep blue

tint



Instrument: Dycal (Calcium Hydroxide

Composition)

Function: Used for indirect pulp cap,

protective liner for deep cavities

Characteristics: A base and catalyst paste, mixes

together to form a tan paste, self

sets. 1:1 ratio mix



Instrument: Vitrabond liner

Function: A glass ionomer material used

to make a liner

Characteristics: Powder and liquid mixed 1:1

ratio, light cure and self setting



Instrument: IRM (ZOE)

Function: Used as a temporary filling

material, sedative filling

Characteristics: White powder mixed with

eugenol, 1:1 mixture, mix so it is

not sticky to gloved finger



Instrument: Fuji IX or Fuji II

Function: Used for restorative material

for high caries risk, releases

fluoride

Characteristics: Triturable capsules or liquid

powder



Instrument: Flowable Composite

Function: High viscosity, low filler

composite, used small areas or before placement of packable composite, differs in shade

Characteristics: Fluid like composite, with in a

syringe used with a syringe tip



Instrument: Packable Composite

Function: Low viscosity, high filler,

permanent restorative material

Characteristics: Either in a syringe or composite

tip. Composite tip requires

composite gun



Instrument: Composite Gun

Function: Holds composite tip, used to

deliver composite to the cavity

prep

Characteristics: Composite tip inserts in the

barrel of the composite gun



Instrument: Composite Shade Guide

Function: To allow the patient to see

the shade they would like

the filling to be.

Characteristics: Has different color teeth with a

shade, e.g. A2, B1, C3, D2...



Instrument: High Speed Handpiece

Function: To be used with a bur to cut a

cavity/crown prep

Characteristics: Runs on air pressure, up to

400,000 rpm's, sprays water,

friction grip



Instrument: Low Speed Handpiece

Function: To remove decay, polish, open

pulpal access, endo, refine prep

Characteristics: Runs on air, up to 30,000 rpm's,

latch and friction grip



Instrument: Contra Angle

Function: To use with slow speed motor

Characteristics: Different designs for different

procedures, e.g. hygiene tray, operative tray, surgical tray.



Instrument: Straight Nose Cone

Function: To use with or without

attachments. Examples of attachments: Contra angle or prophy angle; To use with a long-

shank straight bur

Characteristics: Runs at maximum 30,000 rpm; use

outside oral cavity unless used with

attachments

X-RAY



Instrument: Anterior X-ray

Function: To take X-ray for Anterior teeth

Characteristics: 1. Plastic aiming ring; 2. metal

indicator arm; 3. plastic bite-block;

4. film



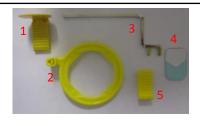
Instrument: Digital Sensor

Function: To be placed in mouth and capture

digital image of teeth; used in place

of traditional X-ray films

Characteristics: Variety sizes and types



Instrument: Posterior X-Ray

Function: To take X-ray for Posterior teeth

Characteristics: 1&5. Plastic bite-block; 2. Plastic

aiming ring; 3. metal indicator arm;

4. film

UNIVERSAL SURGICAL INSTRUMENTS





Instrument: Scalpel Handle with

Blades

Function: To Hold blade in place, cut tissue

with blade, trim interproximal

restoration

Characteristics: Blades are disposable after each

use. Handle can be autoclaved or

disposable.

Instrument: Tissue Forcep

Function:

To hold tissue during surgical

procedures

Characteristics: Has serrated or rat-tooth tips





Instrument: Hemostat

Function: To grasp tissue or bone fragment

Characteristics: Has variety of functions. Working

end is serrated and it locks. Can be

straight or curved



Instrument: Tongue and Cheek

Retractor

Function: To hold and retract tongue or cheek

Characteristics: Styles and sizes vary. Also called the

Minnesota.



Instrument: Tissue Scissors

Function: To cut tissue

Characteristics: Can be straight or curved. Variety of

shapes and sizes





Instrument: Needle Holder/ Driver

Function: To grasp and manipulate suture

needle during suturing

Characteristics: Working end has different lengths.

Ends are notched to accommodate

needle.

UNIVERSAL SURGICAL INSTRUMENTS



Instrument: Suture Needles and Sutures

Function: To suture surgical site

Characteristics: Reabsorbable sutures: gut and

chromic gut. Non-reabsorbable: silk, nylon, polypropylene.
Available in packages.



Instrument: Suture Scissors

Function: To cut sutures

Characteristics: Has straight or angled cutting edges.

May have a notch on end of cutting

edge.

SUTURE TRAY SET-UP



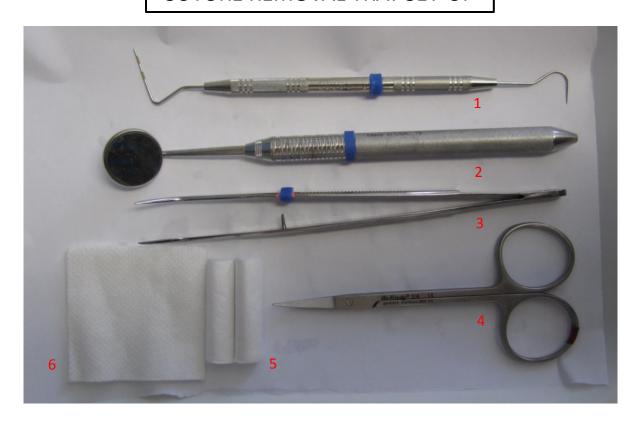
- 1. Suture and Needle
- 2. 2x2 Gauze
- 3. Cotton Rolls
- 4. Hemostat

- 5. Suture Scissors
- 6. Cotton Forcep
- 7. Mouth Mirror

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UNIVERSAL SURGICAL INSTRUMENTS

SUTURE REMOVAL TRAY SET-UP



- 1. Explorer/ Perioprobe
- 2. Mouth Mirror
- 3. Cotton Forcep

- 4. Suture Scissors
 - 5. Cotton Rolls
 - 6. 2x2 Gauzes

ORAL SURGERY INSTRUMENTS



Instrument: Straight Elevators

Function: To loosen tooth from periodontal

ligaments before extraction. To separate and lift tooth from socket.

Characteristics: Single ended. Variety of sizes.



Instrument: Periosteal Elevator

Function: To provide indirect vision

To retract lips, cheeks, and tongue To reflect light into the mouth

Characteristics: Accurate image from flat surface

mirrors, image magnified with

concave mirrors.



Instrument: Root-Tip Picks

Function: To lift and remove small root tips in

difficult areas

Characteristics: Pointed at working end . Straight or

right-and-left pairs.



Instrument: Root Elevators/ Cryers

Function: To loosen root. To separate and lift

tooth from socket. To use on

posterior teeth

Characteristics: Single ended. Can be right or left.

Variety of sizes.



Instrument: Root-Tip Elevators

Function: To lift and remove fragments of root

Characteristics: Single ended. Rounded or pointed.

Straight or right-and-left pairs



Instrument: Bone File

Function: To remove or smooth edges of

alveolar bone

Characteristics: Used in push-pull motion; straight-

cut or cross-cut cutting end; variety

of sizes, angles, and shapes.

ORAL SURGERY INSTRUMENTS



Instrument: Maxillary Universal

Forceps/ Cryer 150

Function: To extract maxillary central,

laterals, cuspids, premolars, and

roots

Characteristics: Has straight handles or one curved

handle



Instrument: Maxillary Right Forceps/

No. 88R

Function: To extract trifurcated maxillary right

first or second molars

Characteristics: Has right-split beak to engage

lingual root



Instrument: Maxillary Left Forceps/ No.

88L

Function: To extract trifurcated maxillary left

first or second molars

Characteristics: Has left-split beak to engage lingual

root



Instrument: Mandibular Universal

Forceps/ Cryer 151

Function: To extract manibular central,

laterals, cuspids, premolars, and

roots

Characteristics: Has straight handles or one curved

handle



Instrument: Universal Mandibular

Forceps No. 23

Function: To extract mandibular first and

second molars

Characteristics: Referred to as "Cowhorn" forceps;

straight handles or one curved

handle



Instrument: Rongeur

Function: To trim and remove excess alveolar

bone after extraction

Characteristics: Variety of sizes and angles

ORAL SURGERY INSTRUMENTS



Instrument: Bone Chisel

Function: To split or section a tooth for easier

removal by tapping on chisel with mallet; to reshape or contour

alveolar bone

Characteristics: Single-level chisel for contouring or

removing alveolar bone; bilevel chisel for splitting teeth; variety of

sizes

Instrument: Surgical Curette

Function: To remove debris or granulation

tissue from surgical site; to remove cyst from extraction site or surgical

site; to use for gross tissue

debridement

Characteristics: Various sizes and shapes; single or

double ended



Instrument: Surgical Evacuation Tip

Function: To evacuate fluid from oral cavity

and surgical sites

Characteristics: Stainless steel, autoclavable plastic,

or disposable plastic; tips narrow to accommodate surgical site; attaches

to tubing on dental unit



EXTRACTION TRAY SET-UP INSTRUMENTS

- 1. Cotton Rolls
- 2. Topical Anesthetic
- 3. 2x2 Gauzes
- 4. Needle (Short for Maxillary; Long for Mandibular)
- 5. Anesthetic Carpules
- 6. Syringe
- 7. Mouth Mirror
- 8. Explorer/Perioprobe
- 9. Small Elevator
- 10. Large Elevator
- 11. Periosteal
- 12. Surgical Curette
- 13. Forcep:
 - Teeth #1-3: 88R
 - Teeth #4-13: 150
 - Teeth #14-16: 88L
 - Teeth #17-19: Cowhorn 23
 - Teeth #20-29: 151
 - Teeth #30-32: Cowhorn 23

BURS FOR HIGH SPEED AND LOW SPEED HANDPIECES



Instrument: Magnetic Bur Block with

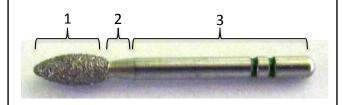
Burs

Function: To be used by inserting into dental

handpiece; to attach discs to mandrel for finishing and polishing inside or outside of oral cavity

Characteristics: Different shanks: 1. Long shanks –

straight slow-speed handpiece, 2. Short latch-type shank – contraangle slow-speed handpiece, 3.. Friction grip – high speed handpiece



Instrument: Bur

Function: To be inserted in high-speed or low-

speed handpiece

Characteristics: Parts: 1. Head: Part of bur that cuts,

polishes, or finishes (various sizes, shapes, and shanks); 2. Neck: Part of bur that tapers to connect shank to head of bur; 3. Shank: Part of bur that is inserted into the handpiece
•Length and style varies depending

on handpiece being used

•Bur with a straight and long shank

fits into straight slow-speed

handpiece

•Bur with latch type at end of shank fits into contra-angle slow-speed

handpiece

•Friction grip bur fits into highspeed handpiece; a chunk tightens

bur into handpiece



Instrument: Rubber Points

Function: To remove amalgam restorations

Characteristics: Various polishing grits; brown

points (Brownies) are abrasive for polishing; green points (Greenies) are less abrasive; Variety of shanks:

1. Latch type, 2. Friction grip



Instrument: Round Bur

Function: To remove caries from tooth

structure; to open tooth for endodontic treatment

Characteristics: Various sizes; small to large

BURS FOR HIGH SPEED AND LOW SPEED HANDPIECES



Instrument: White Stone

Function: To polish restorative material

Characteristics: Various shapes and shanks



Instrument: Straight Fissure - Crosscut

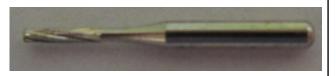
Function: To cut cavity preparation; to form

walls of cavity preparation; to place retention grooves in walls of cavity

preparation

Characteristics: Cutting part of bur has parallel sides

with horizontal cutting edge



Instrument: Straight Fissure – Plain Cut

Function: To cut cavity preparation; to

form inner walls of cavity

preparation; to replace retention

grooves in walls of cavity

preparation

Characteristics: Cutting part of bur has parallel sides



Instrument: Taper Fissure - Crosscut

Function: To cut cavity preparation; to

form angles in walls of cavity

preparation

Characteristics: Cutting part of bur has tapered

sides with horizontal cutting

edges



Instrument: Taper Fissure – Plain Cut

Function: To cut cavity preparation; to form

angles in walls of cavity preparation

Characteristics: Cutting part of bur has tapered sides



Instrument: Carbide Football Finishing

Bur

Function: To finish composite restoration by

restoring anatomy in tooth; to equilibrate or adjust occlusion

Characteristics: Shaped like a football

BURS FOR HIGH SPEED AND LOW SPEED HANDPIECES





Instrument: Diamond Football

Function: To reduce a tooth for crown

preparation for subgingival margins

Characteristics: Different grits: coarse to super-fine;

various shapes and sizes; super-fine

used finishing restorations.

Instrument: Mandrel

Function: To be used by inserting into a dental

handpiece; to attach discs to mandrel for finishing and polishing

inside or outside of oral cavity
Characteristics: Different shanks: 1. Long shank -

Different shanks: 1. Long shank – straight slow-speed handpiece; 2.

short latch-type shank – contraangle slow speed handpiece.











Instrument: Polishing Discs

Function: To contour (coarse grit) or

polish and smooth (extra-fine grit) restorative material

Characteristics: Different grits: coarse to extra-

fine; various sizes; snap-on (with metal center) or screw-on

Instrument: Diamond Flat-End Taper

Function: To reduce a tooth for crown

preparation when a square

shoulder is needed

Characteristics: Different grits: coarse to super-

fine; various sizes and shapes; super-fine used for finishing

restorations



Instrument: Diamond Flat-End Cylinder

Function: To reduce a tooth for crown

preparation when parallel walls

and flat floors are needed

Characteristics: Different grits: coarse to super-

fine; various sizes and shapes; super-fine used for finishing

restorations

ROOT CANAL (START) TRAY SET-UP

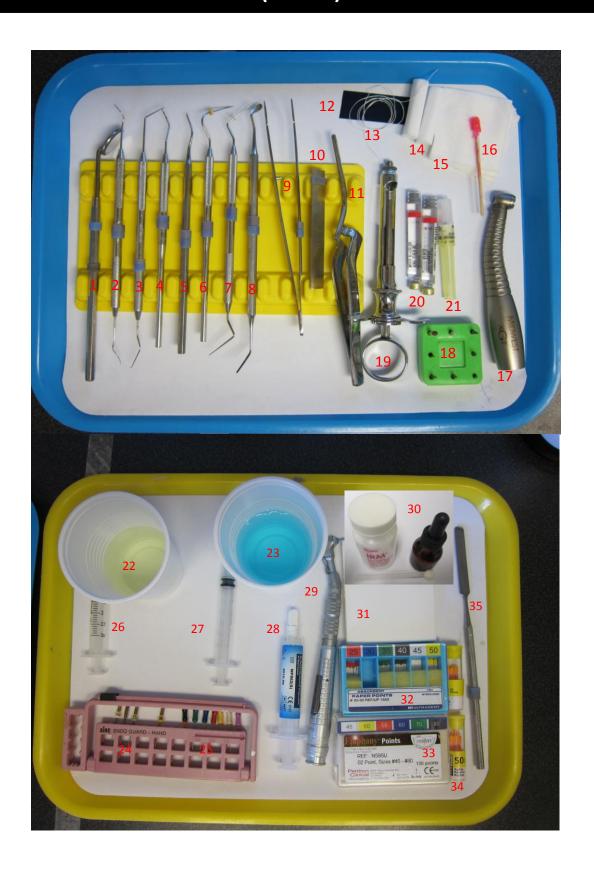




ROOT CANAL (START) INSTRUMENTS

- 1. Mouth Mirror
- 2 8. Endo Set
- 9. Cotton Forcep
- 10. Metal Ruler
- 11. Articulating Paper Holder
- 12. Articulating Paper
- 13. Floss
- 14. Cotton Rolls
- 15. 2x2 Gauzes
- 16. Topical Anesthetic
- 17. High Speed Handpiece
- 18. Restorative Bur Block
- 19. Syringe
- 20. Anesthetic Carpules
- 21. Needle
- 22. Sodium Hypochloride (Bleach)
- 23. Chlorohexidine
- 24. Nerve Broaches
- 25. Endofiles
- 26. Monoject with Yellow Needle
- 27. Monoject with Blue Needle
- 28. Root Canal Lubricant
- 29. Low Speed Handpiece
- 30. IRM
- 31. Mixing Pad
- 32. Paper Points
- 33. Calcium Hydroxide
- 34. Mixing Spatula

ROOT CANAL (FINISH) TRAY SET-UP



ROOT CANAL (FINISH) INSTRUMENTS

- 1. Mouth Mirror
- 2 8. Endo Set
- 9. Cotton Forcep
- 10. Metal Ruler
- 11. Articulating Paper Holder
- 12. Articulating Paper
- 13. Floss
- 14. Cotton Rolls
- 15. 2x2 Gauzes
- 16. Topical Anesthetic
- 17. High Speed Handpiece
- 18. Restorative Bur Block
- 19. Syringe
- 20. Anesthetic Carpules
- 21. Needle
- 22. Sodium Hypochloride (Bleach)
- 23. Chlorohexidine
- 24. Nerve Broaches
- 25. Endofiles
- 26. Monoject with Yellow Needle
- 27. Monoject with Blue Needle
- 28. Root Canal Lubricant
- 29. Low Speed Handpiece
- 30. IRM
- 31. Mixing Pad
- 32. Paper Points
- 33, 34. Gutta Percha Points
- 35. Mixing Spatula

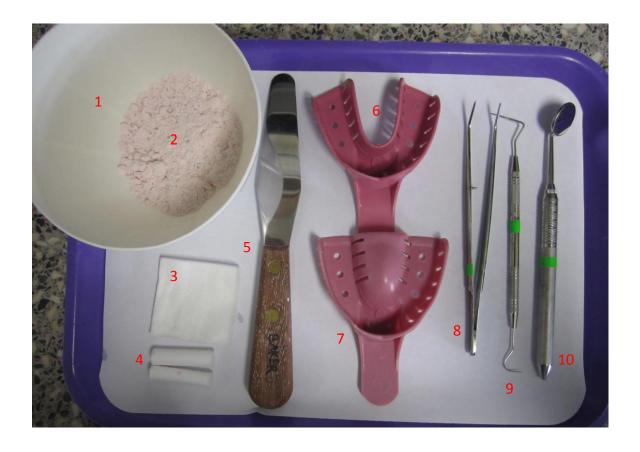
DRY SOCKET TRAY SET-UP



DRY SOCKET TRAY SET-UP INSTRUMENTS

- 1. Cotton Rolls
- 2. 2x2 Gauzes
- 3. Topical Anesthetic
- 4. Eugenol
- 5. Mouth Mirror
- 6. Explorer/ Perioprobe
- 7. Cotton Forcep
- 8. Scissors

FULL DENTURE ALIGINATE IMPRESSION TRAY SET-UP



TRAY SET-UP INSTRUMENTS

- 1. MIXING BOWL
- 2. ALIGNATE MATERIAL
- 3. 2X2 GAUZES
- 4. COTTON ROLLS
- 5. MIXING SPATULA
- 6. LOWER IMPRESSION TRAY
- 7. UPPER IMPRESSION TRAY
- 8. COTTON FORCEP
- 9. EXPLORER/ PERIOPROBE
- 10. MOUTH MIRROR

CROWN PREP TRAY SEP-UP



CROWN PREP TRAY SEP-UP INSTRUMENTS

- 1. CORDS
- 2. BITE BLOCK
- 3. TEMP CEMENT
- 4. CROWN & BRIDGE BUR BLOCK
- 5. VISCOSTAT
- 6. SCISSORS
- 7. ARTICULATING PAPER
- 8. CORD PACKER
- 9. ANESTHETIC CARPULES
- 10. NEEDLE
- 11. SYRINGE
- 12. COTTON FORCEP
- 13. MOUTH MIRROR
- 14. FLOSS
- 15. EXPLORER/ PERIOPROBE
- **16. COTTON ROLLS**
- **17. 2X2 GAUZES**
- 18. TRIPLE TRAY X 3
- 19. IMPRESSION MATERIAL GUN X3
- 20. BITE REGISTRATION
- 21. LIGHT BODY
- 22. HEAVY BODY
- 23. BITE REGISTRATION TIP (TEAL)
- 24. LIGHT BODY TIP (YELLOW WITH TIP)
- 25. HEAVY BODY TIP (TEAL)

CREDITS

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