

This table provides a list of most procedures in a routine orthodontic clinic with a reference to the potential for AGP production. Automated instruments driven by compressed air, or similar, will tend to generate an AGP or splatter. Manual instrumentation does not generate an AGP or splatter.

Key	
AGP	Aerosol Generating Procedure
Non-AGP	Non Aerosol Generating procedure
HVE	High Volume Evacuation (suction)
3:1	3 in 1 air and water syringe
a/w	Archwire
HS	High speed handpiece
SL	Slow speed handpiece
SEP	Self-etch prime
TAD	Temporary Anchorage Device

AGP PPE	Risk from AGP; PPE3 required and fallow time before Surgery Decontamination
Non-AGP PPE	Alternative procedures to avoid AGP; PPE2 required
Non-AGP PPE	Safe procedure; PPE2 required

Appointment type	Procedure	Non-AGP	AGP/Splatter	Comments/Suggested Alternatives
<b>Consultation</b>				
New Patient assessment	Examination	X		
	Extra oral	X		
	Intra Oral	X		
	Periodontal	X		
	Surface drying 3:1		X	Cotton wool wipe / HVE
	Photographs	X		Care with occlusal views; consider non-mirror shots
	Impressions	X		
Treatment Planning	Scanning	X		
	Discussion	X		Consider a virtual consultation, via video link
	Consent	X		Consider a virtual consultation, via video link
<b>Fixed Appliances &amp; Retainers</b>				
Bond up	Tooth prophylaxis		X	Wipe with cotton wool or avoid.
	3:1		X	See tooth/teeth drying
	Etch/wash/dry		X	SEP only
	Tooth/teeth drying	X		Dry tooth with HVE and cotton wool pledget
	SEP, without blowing resin with 3:1	X		Avoid 3:1. Bond strength may be reduced
	Bracket placement	X		
	Band cementation	X		Dry tooth and band with HVE and cotton wool pledget
	a/w tie in	X		
Fixed Adjustment	a/w tie in and removal	X		
	auxiliary attachment and removal	X		
Bracket repair	Composite removal - handpiece		X	Avoid if possible and use hand instrument
	Composite removal - hand instrument	X		Adhesive removal plier/ scaler/Mitchell's Trimmer
	Bond - as above for Bond up above	X		
	Band instead of Bond	X		Weaker bond strength
Debond	Use GIC instead of composite for Bond	X		
	Bracket removal	X		
	Band removal	X		
Fixed retainer	Adhesive removal with HS or SL		X	Avoid if possible and use hand instrument
	Adhesive removal; manual (plan to remove residual at retention check)	X		Adhesive removal plier/ scaler/Mitchell's Trimmer.
	Sandblast		X	Accept no tooth preparation or use removable retainer only
	Prophy		X	Accept no tooth preparation or use removable retainer only
	Etch/wash/dry		X	Accept no tooth preparation or use removable retainer only
Fixed retainer repair	SEP, without blowing resin with 3:1	X		Avoid 3:1. Bond strength may be reduced
	Placement of retainer (Composite & Wire)	X		
	Composite removal; HS or SL		X	Avoid if possible and use hand instrument
	New retainer as above			
Removable Retainers and Appliances	Ease by manually cutting and provide Vacuum retainer	X		Most robust option until safe to replace fixed retainer
	Replace bonded retainer as above	X		without 3:1
Vacuum retainer	Impressions	X		
	Scanning	X		
	Fit	X		
	Adjustment/easing with shears or scissors	X		
	Adjustment/easing with handpiece and bur		X	Only use if not been in patients mouth or decontaminated
	Hawley Retainer (or similar)	Impressions	X	
Scanning		X		
Fit		X		
Adjust cribs		X		
Easing with handpiece and bur			X	Only use if not been in patients mouth or decontaminated
Aligners	Clear aligner treatment			
	Impressions	X		
	Scanning	X		
	Fit	X		
	Adjustment/easing with shears or scissors	X		
	Adjustment/easing with handpiece and bur		X	Only use if not been in patients mouth or decontaminated
Bonding attachments	Tooth prophylaxis		X	Wipe with cotton wool or avoid.
	Etch/wash/dry		X	Avoid by using SEP
	SEP, without blowing resin with 3:1	X		Bond strength may be reduced
	Placement of template and curing	X		
	Flash removal with HS/SL		X	Avoid overfilling template to reduce flash
	Flash removal manually	X		
Attachment Removal	Adhesive removal with HS or SL		X	Avoid if possible and use hand instrument
	Adhesive removal; manual	X		Adhesive removal plier/ scaler/Mitchell's Trimmer
<b>Other Procedures</b>				
Inter-proximal reduction	Handpiece		X	Use manual abrasive strips
	SL Handpiece (rotary, reciprocating, disc)		X	Use manual abrasive strips
	Manual abrasive strips	X		
TAD placement/removal	Handpiece		X	Manual placement only
	Manual Driver	X		
Scaling teeth, roots	Ultra-sonic		X	Use hand instruments only
	Manual	X		

References

- Section 8.1, COVID 19 Personal Protective Equipment – 3<sup>rd</sup> May 2020  
<https://www.gov.uk/government/publications/wuhan-novel-coronavirus-infection-prevention-and-control/covid-19-personal-protective-equipment-ppe>
- What is an Orthodontic AGP, British Orthodontic Society  
<https://www.bos.org.uk/COVID19-BOS-Advice/Recovery-Phase-Advice/What-is-an-orthodontic-AGP>