

Procedimientos Generadores de Aerosoles y su Mitigación: Una Revisión Rápida de en Guías Internacionales de Servicios Odontológicos

24 de Julio del 2020

Grupo de Trabajo de Revisión de Evidencia de Servicios Odontológicos COVID-19 (CoDERs)

Cómo citar este documento:

Clarkson J, Ramsay C, Richards D, Robertson C, & Aceves-Martins M, on behalf of the CoDER Working Group. Aerosol Generating Procedures and their Mitigation in International Dental Guidance Documents - A Rapid Review

<https://oralhealth.cochrane.org/news/aerosol-generating-procedures-and-their-mitigation-international-guidance-documents>



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Propósito

El objetivo de esta revisión rápida fue evaluar cómo se definieron los Procedimientos de Generación de Aerosoles (PGA) en guías internacionales de servicios odontológicos, qué procesos de mitigación se aconsejaron, y también se consideró si dichas recomendaciones estaban vinculadas a la epidemiología del COVID-19. Los objetivos específicos fueron:

- Evaluar cómo se definen y clasifican los PGA en guías internacionales de servicios odontológicos.
- Identificar qué medidas para la mitigación de PGA se recomienda tanto para pacientes con y sin COVID-19.
- Informar brechas de tiempo recomendadas entre el tratamiento de pacientes con y sin COVID-19 en el mismo consultorio u oficina, después de la provisión de PGA.
- Identificar cualquier recomendación o factor mitigante que permita reducir las brechas de tiempo entre tratamiento de pacientes con y sin COVID-19.
- (Evaluar la calidad de la evidencia vinculada a las recomendaciones, actualmente en curso y que será informada en una actualización a futuro)

Esta revisión rápida se realizó como parte del Programa Escocés de Efectividad Clínica Dental (SDCEP-por sus siglas en inglés) para informar sobre los PGA en la práctica dental. <https://www.sdcep.org.uk/published-guidance/covid-19-practice-recovery/rapid-review-of-agps/>

Mensajes Clave

- Esta revisión rápida informa las recomendaciones acerca de los PGA y su mitigación en 58 guías internacionales de servicios odontológicos.
- El nivel de detalle proporcionado en las guías revisadas es muy variable.
- Más de la mitad de las guías revisadas (56%) proporciona una definición de PGA.
- 98% de las guías revisadas estipula que se pueden proporcionar PGA a pacientes sin COVID-19.
- 94% de las guías revisadas recomienda el uso de máscara facial y gafas o protector facial para el tratamiento de pacientes sin COVID-19.
- 21 (33%) de las guías revisadas aconseja el uso de máscaras quirúrgicas para tratar a pacientes sin COVID-19, mientras que 44 (70%) recomiendan el uso de máscaras FFP2/N95 y 12 (19%) el uso de máscaras FFP3.
- 82% de las guías revisadas recomienda el uso de enjuague bucal previo a un procedimiento.
- 48% de las guías revisadas sugiere un período de descanso después de proporcionar el tratamiento con PGA en pacientes sin COVID-19 con tiempos que varían desde 2 a 180 minutos.
- La mayoría de las guías revisadas recomienda las mismas medidas de mitigación para pacientes con y sin COVID-19.
- La evidencia proporcionada en las guías revisadas es escasa para respaldar la mayoría de dichas recomendaciones.

La Organización Mundial de la Salud (OMS) declaró la enfermedad por coronavirus SARS-CoV-2 (COVID-19) una pandemia mundial el 11 de marzo de 2020. Desde entonces, los servicios dentales en los países afectados se han visto severamente restringidos. Aunque muchas de las clínicas dentales han reabierto después del brote, las guías de práctica siguen siendo revisadas, particularmente en relación con los PGA. Hasta hace muy poco, se consideraba que el modo primario de propagación del virus era a través de gotitas y fómites. Sin embargo, ahora también se considera el potencial de transmisión vía aérea.¹ Esto es importante en relación con la provisión segura de los servicios dentales, ya que afecta la incertidumbre que existe con respecto al riesgo y el uso de PGA en odontología y cualquier riesgo asociado de la transmisión del SARS-CoV-2.

Process

En la primera semana de julio de 2020, comenzamos una revisión rápida de guías e informes recientemente producidos que contienen recomendaciones de organizaciones internacionales y organismos profesionales sobre los lineamientos actuales para la movilización y reapertura segura de servicios dentales. Nuestros métodos se basan en el enfoque propuesto para revisiones rápidas por la OMS y la Alianza para la Investigación de Políticas y Sistemas de Salud.²

Esta revisión es complementaria a la Revisión Rápida anterior del equipo CoDERs sobre la reapertura de los servicios dentales (realizada el 16 de mayo de 2020). La revisión presentada en este documento resume solo las recomendaciones asociadas con la provisión de PGA. Realizamos una búsqueda de literatura gris para identificar documentos de orientación relevantes, además el especialista de información de “*Cochrane Oral Health*” (COH) actualizó el 13 de julio de 2020 la búsqueda que Cochrane regularmente produce sobre de guías dentales. También nos pusimos en contacto con una red internacional de investigadores en salud oral y tomadores de decisiones a través del “*Global Evidence Ecosystem for Oral Health*” (GEEOH). El GEEOH se fundó para reducir la duplicación de esfuerzos y crear rutas directas desde la evidencia hasta la política y la práctica clínica y actualmente está coordinado por COH. A través de esta red, la Federación Mundial de Odontología (FDI-por sus siglas en inglés) ha compartido una base de datos de guías y documentos oficiales internacionales recopilados recientemente, los cuales proporcionaron documentos adicionales para esta revisión. Luego de la publicación de la Revisión Rápida de reapertura de servicios dentales, diversas personas y grupos nos contactaron para ayudar con la identificación de los documentos para esta revisión. La relación entre COH, el SDCEP y nuestro grupo de investigación, resultó en una comunicación y asistencia rápida de varios directores dentales y líderes mundiales de políticas dentales.

No se aplicaron restricciones de idioma a las búsquedas y los miembros de nuestro grupo de trabajo pudieron traducir documentos publicados en holandés, francés, alemán, portugués y español. En algunas guías fue necesario utilizar el traductor de Google para

¹ https://apps.who.int/iris/bitstream/handle/10665/333114/WHO-2019-nCoV-Sci_Brief-Transmission_modes-2020.3-eng.pdf?sequence=1&isAllowed=y.

² <https://www.who.int/alliance-hpsr/resources/publications/rapid-review-guide/en/>

traducir de otros idiomas. Las búsquedas continuaron hasta el 13 de julio de 2020 y los datos se extrajeron hasta el 15 de julio de 2020.

Previamente, desarrollamos un formulario para extraer información relacionada con las recomendaciones específicas de PGA. Para cada guía, un solo revisor extrajo la evidencia vinculada a las recomendaciones. Algunos de los elementos incluidos en dicha forma fueron las definiciones de PGA, recomendaciones sobre EPP, y cualquier proceso de mitigación de aerosoles tanto en el ambiente como en los procedimientos.

Resultados

Un total de 74 guías y documentos internacionales provenientes de 72 países fueron identificadas, incluyendo cuatro del Reino Unido (Inglaterra, Escocia, Gales e Irlanda del Norte), dos de Kenia y dos de Estados Unidos. Se excluyeron cinco documentos (Hong Kong, Corea del Sur, la Guía de la Asociación Latinoamericana de Pediatría, Suecia y Kenia), ya que no proporcionaron información relevante para nuestros objetivos. Previo a nuestra fecha límite, no obtuvimos los documentos o sus traducciones de siete países (Albania, Bosnia Herzegovina, Israel, Moldavia, Nepal, Palestina, Turquía). Los datos relevantes para los objetivos de esta revisión rápida fueron extraídos de 63 guías o documentos internacionales por miembros del grupo de trabajo CoDERs. Los principales hallazgos dentro de cada objetivo principal se resumen a continuación, mientras que un resumen detallado de las guías revisadas de cada uno de los países está disponible en el Apéndice 1 de este documento.

Definición de PGA y listas de procedimientos

Veinte de los 63 documentos (33%) proporcionan una definición de PGA, con 35 documentos (56%) que detallan una lista de procedimientos considerados como PGA. Ocho documentos proporcionan referencias relativas a las definiciones de PGA, y cinco proporcionan referencias para los procedimientos de PGA. Aquellos procedimientos identificados por más del 20% de los documentos como PGA fueron: piezas de mano de alta velocidad y jeringas 3 en 1 (56%), escarificadores sónicos/ultrasonicos (43%), piezas de mano de baja velocidad (29%) y piezas de mano quirúrgicas (22%).

Con la excepción de Escocia, que en el momento de la redacción de este documento no permitía los PGA en pacientes sin COVID-19, todos los demás documentos (98%) indican que se pueden realizar PGA en pacientes sin COVID-19. Sin embargo, ciertas guías advierten precaución para su uso. Muchas de las guías revisadas recomiendan limitar el uso de PGA cuando sea posible, con 13 documentos (21%) que recomiendan realizar PGA exclusivamente en emergencias dentales. Solo cuatro documentos proporcionan referencias relacionadas con la provisión de PGA. La información adicional que compara los procedimientos de PGA para pacientes con y sin COVID-19 está disponible país por país en el Apéndice 2. Cincuenta y ocho (92%) de los documentos sugieren proporcionar tratamiento para pacientes sospechosos o confirmados con COVID-19. De estos, 22 sugieren exclusivamente tratar emergencias, con 16 guías que indican que estos pacientes

deben ser atendidos en clínicas especializadas u hospitales COVID-19, y no en una clínica dental general. Ninguna de las recomendaciones para pacientes con COVID-19 se basa en evidencia.

Recomendaciones de EPP

Para el manejo de los PGA en pacientes sin COVID-19, cinco documentos (Bolivia, Ecuador, Filipinas, Portugal y España) recomiendan el uso de dos pares de guantes. Cincuenta y nueve de los 63 países (94%) especifican en sus guías el uso de una máscara facial, y el 91% especifica el uso de gafas o un protector facial. Todos los países que especifican el uso de gafas o un protector facial, también incluyen el uso de una máscara facial. Cinco países (Costa Rica, República Dominicana, Myanmar, Portugal y Ucrania) no especifican un tipo particular de máscara para usar con pacientes sin COVID-19. Veintiún países aconsejan el uso de máscaras quirúrgicas (33%) para pacientes sin COVID-19, mientras que 44 (70%) recomiendan el uso de máscaras FFP2/N95. Doce (19%) sugieren el uso de máscaras FFP3. De los 21 países que recomiendan una máscara quirúrgica, 10 sugieren el uso de máscaras FFP2/N95 si están disponibles. Nueve de los 44 países que aconsejan el uso de máscaras FFP2 para tratar a pacientes sin COVID-19 sugieren el uso de máscaras FFP3 cuando estén disponibles. Sólo los documentos de 19 países hacen referencia específica a la necesidad de pruebas de ajuste de las máscaras FFP2/3. Cuarenta y dos países (67%) recomiendan el uso de bata quirúrgica, y 32 países (51%) el uso de gorro quirúrgico, 21 países (34%) recomiendan el uso de delantales desechables y 11 países (17%) también recomiendan el uso de cubiertas para el calzado.

De los documentos que proporcionan recomendaciones para el tratamiento de pacientes con COVID-19, la mayoría (54%) recomienda el mismo nivel de máscara facial que cuando se trata a pacientes sin COVID-19, con solo 12 guías sugiriendo que el tipo de máscara debe ser superior cuando se atiende a un paciente con COVID-19

Mitigación en procedimientos

Los procedimientos de mitigación de aerosoles incluyen enjuague bucal, diques de goma y succión de alto volumen. El 82% de los documentos recomienda el uso de un enjuague bucal previo al procedimiento, con miras a reducir los aerosoles biológicos para pacientes sin COVID-19. Los dos enjuagues bucales más comúnmente recomendados fueron el peróxido de hidrógeno (38 documentos) y la povidona yodada (30 documentos), y muchos documentos recomiendan el uso de cualquiera de estos dos enjuagues bucales. Tres documentos recomiendan cetil piridinio y tres recomiendan enjuague bucal sin especificar el tipo. Diez documentos proporcionan algún tipo de referencia para esta recomendación. Si bien Paraguay y Sudáfrica recomiendan su uso, también indican que no hay evidencia de la efectividad del enjuague bucal en pacientes con COVID-19.

El uso de diques de goma fue recomendado para pacientes sin COVID-19 por 46 (73%) documentos. Solo seis (10%) de estos documentos (China, Francia, Italia, Malasia, Filipinas y Sudáfrica) proporcionando referencias que sostienen dicha recomendación.

Si bien el uso de succión de alto volumen a menudo es una práctica habitual durante el tratamiento dental, solo 46 (73%) documentos recomiendan el uso de succión de alto volumen para pacientes sin COVID-19, con solo seis (10%) documentos (China, Francia, Italia, Malasia, Filipinas y Sudáfrica) proporcionando referencias que sostienen dicha recomendación.

Mitigación Ambiental

La ventilación general de la clínica dental para pacientes sin COVID-19 se menciona en 33 (52%) de los documentos incluidos. El consejo más comúnmente proporcionado en los 15 documentos que mencionan la ventilación es el de garantizar que la habitación esté bien ventilada, incluida la apertura de ventanas (exteriores) y el uso de aire acondicionado. El documento argentino revisado recomienda apagar el aire acondicionado, mientras que otros indican que se puede usar, pero no en el modo de recirculación de aire. Seis documentos sugieren el uso de una sala con presión negativa o flujo de aire unidireccional. Guatemala, Honduras, India, Italia, Malasia, Paraguay, Filipinas, Polonia y Sudáfrica recomiendan el uso de filtración tipo HEPA. Solo el documento canadiense revisado proporciona detalles específicos sobre los cambios de aire por hora, incluida una tabla detallada del impacto de diferentes números de cambios de aire. De los 33 documentos que proporcionan información sobre ventilación general, solo seis proporcionan referencias que sostienen dicha recomendación.

Brechas de tiempo recomendadas entre tratamientos

Treinta de los 63 documentos revisados (48%) hace referencia a la necesidad de tener brechas de tiempo después de proporcionar tratamiento con PGA para pacientes sin COVID-19, con sólo dos de estos documentos proporcionando referencias que sostienen dicha recomendación. El tiempo recomendado para esta brecha varía desde los 2 a 180 minutos. Documentos de ocho países (Bélgica, Canadá, China, Croacia, Inglaterra, Malasia, Malta, Irlanda del Norte) proporcionan algunos posibles factores de mitigación para permitir la reducción de esta brecha de tiempo. Estos incluyen: abrir ventanas, aumentar el número de cambios de aire por hora, uso de filtros tipo HEPA, sala de presión negativa y minimización de la generación de PGA.

De los documentos que recomiendan el tratamiento de pacientes con COVID-19, la mayoría (21/30) recomienda la misma duración de esta brecha de tiempo que cuando se trata a pacientes sin COVID-19. Solo 5 sugirieron que esta brecha de tiempo debería ser más larga en pacientes con COVID-19, con el documento canadiense recomendando hasta 3 horas si la información sobre el cambio de aire por hora no está disponible.

Conclusión

Esta revisión rápida proporciona una visión general de las recomendaciones sobre los PGA y su mitigación a partir de documentos y guías de orientación internacionales. Esta revisión rápida resume elementos específicos de los documentos identificados y destaca varios mensajes clave para ayudar a los encargados de formular políticas y tomar decisiones. Es importante considerar que la mayoría de estos documentos internacionales provee evidencia limitada o nula que respalda las recomendaciones en los documentos revisados.

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El Grupo de Trabajo de Revisión de Evidencia de Servicios Odontológicos COVID-19 desea agradecer y reconocer la contribución de las siguientes personas para proporcionar el asesoramiento y el acceso a los documentos de orientación internacional necesarios para esta revisión rápida:

Colette Bridgman, Chief Dental Officer, Wales; Alonso Carrasco-Labra, Director, ADA Science & Research Institute; Riana Clarke, National Clinical Director Oral Health, New Zealand; Michael Donaldson, Chief Dental Officer, Northern Ireland; Tom Ferris, Chief Dental Officer, Scotland; Sara Hurley, Chief Dental Officer, England; Paulo Melo, COVID-

19 Task Team Chair, FDI World Dental Federation; Timothy Ricks, Chief Dental Officer, US Public Health Service; James Taylor, Chief Dental Officer, Canada; Benoit Varenne, Dental Officer, World Health Organization. Thanks also to Tif Qureshi for providing access to some international guidance documents.

El Grupo de Trabajo de Revisión de Evidencia de Servicios Odontológicos COVID-19 agradece la ayuda y el apoyo brindados por: Shona Floate, University of Glasgow; Anne Littlewood, and Laura MacDonald from Cochrane Oral Health; David Felix, Postgraduate Dental Dean, NES and colleagues from NES's Clinical Effectiveness workstream: Samantha Rutherford; Douglas Stirling; Michele West; Linda Young.

Apéndice 1. Cuadro resumen de los PGA por país (Tabla en inglés como en el reporte original de esta Revisión Rápida)

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Country Argentina</p> <p>Source Ministry of Health - Ministerio de Salud Argentina COVID-19 Recomendaciones Para Odontología</p> <p>Date of first publication 10/06/2020</p> <p>Latest update No update</p> <p>https://www.fdiworld dental.org/sites/default/files/media/documents/covid-19_recomendaciones_p ara_odontologia.pdf</p>	<p>Definition Many of the dental procedures produce aerosols representing a potential route for the transmission of infectious diseases.</p> <p>List of AGP instruments and procedures High speed handpieces, slow speed drill, 3-in-1 syringe, powered scalers</p> <p>Permitted treatment Non COVID-19 patients: suggests emergency treatment should be prioritised but treatment is not limited to emergencies</p> <p>COVID-19 patients: suggests only urgent treatments and avoiding AGPs as much as possible. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	<p>Non COVID-19</p>	<p>Face mask - surgical mask, or N95 or FFP2 if available</p> <p>Fit test required</p> <p>Goggles/face visor</p> <p>Surgical gown</p> <p>Disposable apron</p>	<p>Mouthwash - 30 seconds with Povidone-iodine (10%) of a concentration between 0.2 - 2%, or hydrogen peroxide (10 vol) half with warm water. Spit without rinsing</p> <p>High volume suction</p>	<p>General ventilation. AGPs procedures should be undertaken in closed places, especially in community clinics. Air conditioning is prohibited</p>	60 minutes	Yes
		<p>COVID-19</p>	<p>Face mask - N95 or FFP2</p> <p>Fit test required</p> <p>Goggles/face visor</p> <p>Surgical gown</p> <p>Surgical cap/hat</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>
<p>Country Australia</p> <p>Source Australian Dental Association</p>	<p>Definition COVID-19 is spread via respiratory droplets when an infected person sneezes or coughs, (within 1m) of</p>	<p>Non COVID-19</p>	<p>Face mask - Fluid-resistant surgical mask that block particles of 3 microns or less</p> <p>Protective eyewear (reusable or disposable)</p>	<p>Treat under standard precautions</p> <p>Pre-procedural mouthwash</p>	<p>Social distancing in the waiting room</p> <p>Limit high-touch items that cannot be</p>	Not reported	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Date of first publication Various publication dates and updates</p> <p>https://www.ada.org.au/Covid-19-Portal/Dental-Professionals</p>	<p>another or via contact routes, where the droplets land on a surface and are transferred by touch. There's a risk that airborne transmission may occur if the droplets are aerosolised when certain procedures are performed.</p> <p>List of AGP instruments and procedures Use of high-speed handpieces, 3-in-1 syringe, powered scalers, lasers</p> <p>Permitted treatment Non COVID-19: suggest taking standard precautions</p> <p>COVID-19: suggests AGPs are avoided for suspected COVID-19 patients. Urgent or emergency treatment only for confirmed patients in a dedicated COVID-19 centre or hospital</p>		<p>conform to AS/NZS 1337</p> <p>Face shields are an alternative to protective eyewear but do not protect from inhaled microorganisms and must be worn in conjunction with a surgical mask</p> <p>Surgical gown</p> <p>Disposable apron</p>	ABHR for patients	easily cleaned (e.g. Toys, Magazines)		
		COVID-19	<p>Face mask - Level 2/3 surgical mask or P2/N95 respirator</p> <p>Fit test required</p> <p>Protective eyewear (reusable or disposable) conform to AS/NZS 1337</p> <p>Face shields are an alternative to protective eyewear but do not protect from inhaled microorganisms and must be worn in conjunction with a surgical mask</p> <p>Surgical gown</p> <p>Disposable apron</p>	<p>Rubber dam - Only provide treatment that does not generate aerosols or where aerosols are controlled by using dental dam</p> <p>High-level evacuation</p> <p>Pre-procedural mouthwash 1% hydrogen peroxide</p> <p>ABHR for patients</p>	<p>Confirmed cases: For provision of urgent/emergency treatment ensure airborne precautions which include treatment in a negative pressure room.</p> <p>Social distancing in the waiting room</p> <p>Limit high-touch items that cannot be easily cleaned (e.g. Toys, Magazines)</p>	Not reported	
<p>Country Austria</p>	<p>Definition Not reported</p> <p>List of AGP instruments and</p>	Non COVID-19	<p>Face mask - Surgical mask</p> <p>Goggles/face visor</p>	Mouthwash - 1% hydrogen peroxide	Regular general ventilation of the surgical room is advised	Not reported	No

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Source Austrian Dental Chamber</p> <p>Date of first publication 03/04/2020</p> <p>Latest update 04/05/2020</p> <p>https://stmk.zahnaerztekammer.at/zahnaerztinnen/informationen-corona-virus/</p>	<p>procedures Not reported</p> <p>Permitted treatment Non COVID-19: Suggests providing care with no further specification</p> <p>COVID-19: Suggests providing care with no further specification</p>	COVID-19	<p>Face mask - FFP1, FFP2, or FFP3</p> <p>Goggles/face visor</p> <p>Surgical gown</p> <p>Surgical cap/hat</p>	As non COVID-19	As non COVID-19	Not reported	
<p>Country Belgium</p> <p>Source Conseil de l'Art Dentaire on behalf of the Service Public Fédéral de Santé Publique</p> <p>Date of first publication 19/04/2020</p> <p>Latest update 24/05/20</p> <p>https://5199.f2w.fedict.be/sites/default/files/documents/2020-04-19_covid-19_modification_20200524_-_protocole_soins_dentaires.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specifications</p> <p>COVID-19: suggests treating patients in a dedicated COVID-19 centre or hospital</p>	Non COVID-19	<p>Face mask - Surgical mask or FFP2 for patients with medical conditions at increased risk</p> <p>Goggles or face visor</p> <p>Surgical gown</p>	Mouthwash - 1% hydrogen peroxide	<p>Rubber dam</p> <p>High volume suction</p>	<p>Ensure room is well ventilated between appointments</p> <p>Fallow times can be mitigated by size of the room, number of doors and windows, wind and temperature, any General ventilation system available, any ventilator or airing system</p>	Yes
		COVID-19	Not reported	Not reported	Not reported	Not reported	
<p>Country Bolivia</p> <p>Source College of Dentists of La Paz</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures High speed handpieces, slow</p>	Non COVID-19	<p>Double gloving</p> <p>Face mask - N95 or triple layer mask</p> <p>Goggles/face visor</p> <p>Surgical gown</p>	<p>Mouthwash - rinse with 1% hydrogen peroxide or a 0.2% povidone-iodine mouthwash for 1 minute, (after iodine allergy screening)</p> <p>Rubber dam</p>	<p>General ventilation</p> <p>Disinfect surfaces after treatment</p>	2 mins after disinfecting the room	No

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Date of first publication 01/05/2020</p> <p>Latest update No update</p> <p>https://www.fdiworldental.org/sites/default/files/media/documents/protocolo_de_bio-seguridad_para_la_atencion_a_pacientes_y_prevenccion_del_covid-19_en_clinicas_y_consultorios_odontologicos.pdf</p>	<p>speed drill, 3-in-1 syringe</p> <p>Permitted treatment Non COVID-19: suggests emergency treatment</p> <p>COVID-19: suggests emergency treatment only. COVID-19 patients should ideally be treated in a high level health institution (hospital)</p>		<p>Surgical cap/hat</p> <p>Disposable apron</p>	High volume suction			
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	
<p>Country Brazil</p> <p>Source Biosafety Working Group of the São Paulo Regional Dentistry Council</p> <p>Date of first publication 01/04/2020</p> <p>Latest update No update</p> <p>http://www.crosp.org.br/uploads/arquivo/747df5ff505e7beff33c1a5ff5d6f12a.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe</p> <p>Permitted treatment Non COVID-19: suggest providing care with no further specification. Treat all patients as suspected COVID-19</p> <p>COVID-19: suggests providing care with no further specification</p>	Non COVID-19	<p>Face mask - FFP2 or N95 masks or superior. Do not use surgical masks</p> <p>Fit test required</p> <p>Goggles/face visor</p> <p>Surgical cap/hat</p> <p>Disposable apron</p>	<p>Mouthwash - 0.12% chlorhexidine digluconate; or, hydrogen peroxide 10 vol, diluted in aqueous solution (1%)</p> <p>Rubber dam</p> <p>High volume suction</p>	Avoid any extra or unnecessary equipment	15 minutes	No
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	
<p>Country Bulgaria</p> <p>Source Recommendations/instru</p>	<p>Definition Not reported</p> <p>List of AGP instruments and</p>	Non COVID-19	<p>Face mask - FFP2 or FFP3 mask depending on availability</p> <p>Goggles/face visor</p>	Mouthwash - 1% hydrogen peroxide specific mouthwash not CHX	General ventilation	60 minutes	No

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>ctions from the crisis headquarters of the Bulgarian Dental Union</p> <p>Date of first publication 03/06/2020</p> <p>Latest update No update</p> <p>https://bzs.bg/препоръки-инструкции-от-кризисния-ща/</p>	<p>procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggest providing care with no further specification. COVID-19: suggests providing care with no further specification</p>		<p>Surgical gown</p> <p>Surgical cap/hat</p>				
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	
<p>Country Burkina Faso</p> <p>Source Ordre National des Chirurgiens Dentistes du Burkina Ministère de la Santé</p> <p>Date of first publication Not reported</p> <p>Latest update Not reported</p> <p>URL not available</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: emergency treatment only COVID-19: emergency treatment only. Unclear if COVID-19 patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	Non COVID-19	<p>Face mask - Surgical mask or FFP2</p> <p>Goggles/face visor</p> <p>Surgical gown – if available</p> <p>Surgical cap/hat</p> <p>Wear rubber boots</p>	<p>Mouthwash - hydrogen peroxide 1% or povidone-iodine solution 0.2% mouthwash the day before and/or on the day of treatment</p> <p>High volume suction</p>	Not reported	Not reported	No
		COVID-19	As non COVID-19	As non COVID-19	Not reported	Not reported	
<p>Country Canada</p> <p>Source Royal College of Dental Surgeons of Ontario COVID-19: Managing</p>	<p>Definition Any dental procedure where aerosolised particles are expected to be generated by dental instrumentation</p>	Non COVID-19	<p>Face mask - Level 2 or 3 surgical mask or N95 respirator</p> <p>Fit-test required</p> <p>Eye protection OR face shield</p>	Not reported	Not reported	Not reported	No

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Infection Risks During In-person Dental Care</p> <p>Date of first publication 15/03/2020</p> <p>Latest update 31/05/2020</p> <p>https://www.rcdso.org/en-ca/rcdso-members/2019-novel-coronavirus/covid-19-managing-infection-risks-during-in-person-care</p>	<p>List of AGP instruments and procedures high-speed, low-speed and other rotary handpieces, powered scalers, and 3-in-1 syringes.</p> <p>Permitted treatment Non COVID-19: provide in-person care for all deferred, non-essential, and elective services, in addition to emergency and urgent care.</p> <p>COVID-19: patients who need urgent and emergency care that cannot be delayed</p>		Protective gown (optional)				
		COVID-19	<p>Face mask - N95 respirator</p> <p>Fit-test required</p> <p>Eye protection AND face shield</p> <p>Protective gown</p>	<p>Must avoid AGPs whenever possible and use the lowest aerosol-generating options when necessary.</p> <p>Mouthwash - 1% - 1.5% hydrogen peroxide or 1% povidone-iodine for 60 seconds (acknowledges the lack of documented evidence)</p> <p>Rubber Dam</p> <p>High volume suction</p>	<p>The operatory must be left empty (with the door closed) to permit the clearance and/or settling of aerosols. length of time that the operatory must be left empty (the fallow time) is determined by the air changes per hour (ACH). The aim is to achieve 99.9% removal of airborne contaminants (Detailed ACH table provided)</p>	<p>Depends on ACH but if information not available minimum fallow period is 3 hrs.</p>	
<p>Country Chile</p> <p>Source Division of Disease Prevention and Control Oral Health Department</p> <p>Date of first publication Not reported</p> <p>Latest update Not reported</p> <p>http://www.colegiodontistas.cl/inicio/wp-content/uploads/2020/04/orientaciones-atencion-</p>	<p>Definition Aerosol-generating procedures in dental practice are those that involve the use of high-speed handpieces, 3-in-1 syringes and powered scalers</p> <p>List of AGP instruments and procedures High speed handpieces, 3-in-1 syringe, powered scalers</p> <p>Permitted treatment Non COVID-19:</p>	Non COVID-19	<p>Face mask - FFP2 or N95</p> <p>Fit test required</p> <p>Goggles/face visor</p> <p>Surgical gown</p>	<p>Mouthwash - 1% hydrogen peroxide for 30 seconds prior to dental care</p> <p>Rubber dam</p>	<p>Avoid any extra or unnecessary equipment</p>	<p>Not reported</p>	<p>No</p>
		COVID-19	<p>As non COVID-19</p>	<p>As non COVID-19</p>	<p>Treat suspected or confirmed COVID-19 patients in an isolated room that limits filtration of air to the rest of the clinic</p>	<p>Not reported</p>	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
odontologica-covid-19.pdf	<p>suggests providing care with no further specification</p> <p>COVID-19: Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>						
<p>Country China</p> <p>Source Chinese Stomatological Association - Chinese Response to COVID-19 in Dental Field</p> <p>Date of first publication Not reported</p> <p>Latest update 06/05/2020</p> <p>URL not available</p>	<p>Definition During dental practice, large quantities of droplets and aerosols can be produced through the oral power device from patients' saliva, blood and secretions, which poses high risk of a disease transmission environment between dentists and patients</p> <p>List of AGP instruments and procedures High speed handpieces, powered scalers</p> <p>Permitted treatment Non COVID-19: suggests emergency treatment only COVID-19: suggests AGPs are not provided</p>	Non COVID-19	<p>Face mask - N95, N99</p> <p>Goggles/face visor</p> <p>Surgical gown (disposable isolation suits)</p> <p>Disposable surgical cap/hat</p>	<p>Mouthwash – type not specified. Avoid using the spittoon. Instead, instruct the patient to cover mouth with the disposable mouthwash cup and then spit mouthwash into the cup, then the nurse should immediately use strong suction to reduce the generation of droplets and aerosols</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>If spatter exists during practice, it should be performed in an independent room</p> <p>Maintain airflow and make fresh air infuse ceaselessly indoor by opening a window or using air purification device</p> <p>Twice daily (noon and end of day), disinfection by irradiation with ultraviolet lamp for 30-60 minutes, then open the window for General ventilation for at least 30 minutes</p> <p>Surface disinfection after each treatment.</p> <p>500 mg/L-1000 mg /L chlorine-containing disinfectant, (non-</p>	30-90 minutes	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
					corrosion resistant surfaces) or, 75% ethanol and disposable disinfection wipes		
		COVID-19	Not reported	Not reported	Not reported	Not reported	
Country Colombia	Definition Not reported	Non COVID-19	Face mask - FFP2 or N95 respirator Fit test required Goggles/face visor Surgical gown Surgical cap/hat Disposable apron	Mouthwash - chlorhexidine (0.2%) or Povidone Iodide (2.0%) or hydrogen peroxide (1.5%) for one to two minutes Rubber dam	Not reported	Not reported	No
Source Ministry of Health and Social Protection (Ministerio de Salud y Protección Social Bogotá)	List of AGP instruments and procedures High speed handpieces, slow speed drill, 3-in-1 syringe						
Date of first publication May 2020	Permitted treatment Non COVID-19: suggests providing care with no further specification	COVID-19	As non COVID-19	As non COVID-19	Not reported	Not reported	
Latest update No update	COVID-19: Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital						
https://www.minsalud.gov.co/Ministerio/Institucional/Procesos%20y%20procedimientos/GIPS31.pdf							
Country Costa Rica	Definition Not reported	Non COVID-19	Face mask (type not reported) Goggles/face visor Surgical gown Surgical cap/hat	Mouthwash - pre-procedure mouthwash with 1% hydrogen peroxide (10 cubic centimetres diluted in one litre of water) Rubber dam	Not reported	Not reported	Yes
Source Ministry of Health (Ministerio de Salud Costa Rica)	List of AGP instruments and procedures High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe						
Date of first publication 27/03/2020		COVID-19	Not reported	Not reported	Not reported	Not reported	
Latest update							

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
No update https://www.ministeriode.salud.go.cr/sobre_ministerio/prensa/docs/lineamientos_odontologos_v2_27032020.pdf	Permitted treatment Non COVID-19: suggest providing care with no further specification COVID-19: Suggests emergency treatment only in a dedicated COVID-19 centre or hospital						
Country Croatia Source Croatian Chamber of Dental Medicine Date of first publication 04/05/2020 Latest update No update https://www.hkdm.hr/novost/1836/Smjernice-i-protokoli-za-otvaranje-i-rad-ordinacija-dentalne-medicine-i-dentalnih-laboratorija	Definition Not reported List of AGP instruments and procedures High speed handpieces, 3-in-1 syringes, powered scalers, Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital	Non COVID-19	Face mask - N95 or FFP2 Goggles/face visor Surgical cap/hat	Procedures that generate large amounts of aerosols (e.g. high speed handpieces, 3-in-1 syringes, powered scalers) should be avoided Mouthwash - chlorhexidine 0.20% solution rinse for 60 s and gargle for 15 s Hydrogen peroxide (H ₂ O ₂) 1% (one percent hydrogen peroxide) - gargling for 15 seconds and rinsing for 30 seconds Rubber dam	Keep windows open to ventilate the area and / or turn on General ventilation Disinfect clinic with UV air disinfection system if fitted (wavelength 254 nm). Protect materials and liquids sensitive to UV radiation. Use only at night when there are no people in the premises	Not reported	No
		COVID-19	Face mask - FFP3 Goggles/face visor Surgical cap/hat Shoe covers	Not reported	Not reported	Not reported	
Country Denmark Source SUNDHEDSSTYRELSEN, Danish Health Board	Definition Aerosols are formed by procedures using instruments with water and air List of AGP instruments and	Non COVID-19	Face mask - The mask must retain at least 98% of microorganisms (type II), but does not have to be R type. Must be changed regularly and	In order to prevent the spread of infection from asymptomatic patients requiring an AGP, a test for SARS-CoV-2 may be prescribed in advance of the procedure. The	At the end of treatment, the treatment room must be briefly ventilated before the next patient	Not reported	No

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Date of first publication 18/04/20</p> <p>Latest update 22/04/20</p> <p>https://www.sst.dk/da/udgivelser/2020/haandteringen-af-covid-19-kritisk-funktioner-i-tandplejen</p>	<p>procedures High speed handpieces, slow speed drill, 3-in-1 syringe, powered scaler</p> <p>Permitted treatment Suggests testing every patient for COVID-19 before providing care and postponing any appointment while the patient is COVID-19 positive</p>		<p>always after each patient</p> <p>Goggles/face visor - Visor or goggles can be multiple use, cleaned and disinfected (according to the manufacturer's instructions) between each patient. In case of supply difficulties, full-face visors can be used alone (except for surgical procedures). Ordinary glasses and magnifying glasses can be used if they are designed for protection.</p> <p>Surgical gown - long-sleeve disposable coat and long-sleeve cuff</p> <p>Disposable apron</p>	<p>procedure must be scheduled so that test responses are available before performing the AGP</p> <p>Rubber dam</p>			
		COVID-19	Not reported	Not reported	Not reported	Not reported	
<p>Country Dominican Republic</p> <p>Source Ministry of Health</p> <p>Date of first publication Not reported</p> <p>Latest update Not reported</p> <p>https://www.fdiworldental.org/sites/default/files/media/documents/recomendaciones_para_la_qui_a_de_apertura_de_los_servicios_odontologicos</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Slow speed drill, 3-in-1 syringe, intra-oral radiography</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: suggests providing care with no</p>	Non COVID-19	<p>Face masks – type not specified but should be according to treatment</p> <p>Fit test required</p> <p>Goggles/face visor</p> <p>Surgical gown</p> <p>Surgical cap/hat</p> <p>Disposable apron</p> <p>Shoe covers</p>	<p>Mouthwash - 1% hydrogen peroxide mouthwash, 0.2% Povidone iodine or cetylpyridinium or any other effective mouthwash. Keep in mouth 30 seconds and spit</p> <p>High volume suction</p>	<p>General ventilation</p> <p>Avoid wearing jewellery and accessories</p>	5-10 minutes	No
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19		

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
en la republica dominicana debido a la pandemia covid-19.pdf	further specification. No restriction for COVID-19 patients except triage prior to treatment to identify higher risk and take precautions.						
Country Ecuador Source Ministry of Health Date of first publication 28/05/2020 Latest update No update https://www.fdiworlddent al.org/sites/default/files/media/documents/protocolo para atencion odontologica durante la emergencia sanitaria por covid - 19.pdf	Definition Avoid procedures that involve the generation of aerosols, that is particles generated while using a manual cutting instrument, a rubber dam, low-speed rotating instruments, little irrigation or refrigeration in high-speed rotating instruments, avoiding the use of air-spray from the syringe triple and replace it with drying cotton swabs or gauze. List of AGP instruments and procedures High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe, powered scaler, intra-oral radiography Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no	Non COVID-19	Double gloving Face mask - N95 or equivalent Fit test required Goggles/face visor Surgical gown Surgical cap/hat Disposable apron	Mouthwash – pre-procedure 0.2% Povidone or 1% hydrogen peroxide for 30 seconds Rubber dam High volume suction	General/natural ventilation Avoid jewellery and accessories	10 minutes	No
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
	further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital						
Country Estonia Source Ministry of Health Date of first publication 07/02/2020 Latest update 21/05/2020 URL not available	Definition Not reported List of AGP instruments and procedures Not reported Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests AGPs are not provided	Non COVID-19	Face mask - Surgical mask	Mouthwash – one minute mouth rinse prior to starting any dental procedure, such as mouth rinses containing 1% hydrogen peroxide or 0.2% - 1% Povidone or 0.05% - 0.1% cetylpyridinium chloride 4 handed dentistry with high volume suction recommended	Not reported	Starting from the end of the patient appointment 45 min	No
		COVID-19	Not reported	Not reported	Not reported	Not reported	
Country Finland Source Sector of administration of the Ministry of Social Affairs and Health Date of first publication Not reported Latest update 01/06/2020 https://thl.fi/fi/web/infektio/taudit-ja-rokotukset/taudit-ja-torjunta/taudit-ja-taudinaiheuttajat-a-o/koronavirus-covid-19	Definition Not reported List of AGP instruments and procedures High speed handpieces, slow speed drill with air and water cooling, 3-in-1 syringe, powered scalers Permitted treatment Non COVID-19: suggests providing care with no further specification	Non COVID-19	Face mask - ff AGPs used, FFP2 or FFP3 respirator or surgical mouthpiece (class 2R) Full face visor can be used instead of goggles Surgical cap/hat	Mouthwash - 1-1.5% hydrogen peroxide spray or iodine Betadine (10 mg/ml) spray for 1 minute Rubber dam High volume suction	Not reported	Not reported	Yes
		COVID-19	Face mask - FFP2 or FFP3 Goggles with side protection, face shield	PTG or KKTT examination is used for imaging. Intraoral images are taken only if PTG or KKTT imaging is not possible.	Not reported	Following aerosol generation, personnel remaining in the room must wear a respirator for at least 30 minutes	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
19/ohje-suun-terveydenhuollon-yksikoille-covid-19-epidemiaan-aikana	COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital		Surgical gown – A long-sleeved disposable liquid-impervious jacket Surgical cap/hat			after the end of treatment.	
Country France Source Haute Autorité de Santé (HAS) Date of first publication 14/05/2020 Latest update 25/05/2020 https://www.has-sante.fr/jcms/p_3184961/fr/mesures-et-precautions-essentielles-lors-des-soins-bucco-dentaires-apres-le-deconfinement	Definition Not reported List of AGP instruments and procedures High-speed handpieces, 3-in-1 syringe, powered scaling, air polishers Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital	Non COVID-19	Face mask - FFP2 Goggles/face visor Surgical gown for AGPs where rubber dam can't be used, surgical extraction or ultrasonic scale (high risk of body fluid projections) Surgical cap/hat Disposable apron for AGPs with rubber dam or conservative treatment (low risk of body fluid projections) Shoe covers	Dental air polishing is not advised The dentist should consider the most efficient way to reduce aerosols Contra-angle should be preferred to turbine Use water cooling system to a minimum Mouthwash Rubber dam High volume suction	General ventilation Do not use AGPs in a room without windows unless having a fresh air handling unit (FAHU) No consensus regarding air conditioning systems	15 minutes window opened and door closed	Yes
		COVID-19	As non COVID-19 but shoe covers not advised	As non COVID-19	As non-COVID-19	As non-COVID-19	
Country Germany Source Institut der Deutschen Zahnärzte Date of first publication Not reported	Definition Not reported List of AGP instruments and procedures Not reported Permitted treatment Non COVID-19:	Non COVID-19	Face mask - surgical mask Goggles/face visor	Only use of water or air on 3-in-1 syringes, use of slow speed Mouthwash - 30ml 1.5% hydrogen peroxide (or equivalent) for 1 minute before treatment	Not reported	General ventilation of clinical room for 30 mins	No

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Latest update 24/04/2020 (version 3)</p> <p>https://www.idz.institute/publikationen/sonstiges/system-von-standardvorgehensweise-n-fuer-zahnarztpraxen-waehrend-der-coronavirus-pandemie.html</p>	<p>suggests providing care avoiding AGPs using low speed instrumentation</p> <p>COVID-19: Suggests providing care avoiding AGPs using low speed instrumentation. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>			Rubber dam High volume suction			
		COVID-19	<p>Face mask - FFP2</p> <p>Goggles/face visor</p> <p>Surgical gown</p> <p>Surgical cap/hat</p> <p>Shoe covers</p>	As non COVID-19	Not reported	As non COVID-19	
<p>Country Greece</p> <p>Source Instructions for dental employees in dentists and patients</p> <p>Date of first publication Not reported</p> <p>Latest update Not reported</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/odigies_pros_odontiatroys_erg_azomenoys_se_odontiatr_eia_kai_astheneis_0.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	Non COVID-19	<p>Face mask - FFP2/FFP3 or N95/KN95 for up to 8-10 hrs</p> <p>Fit test required</p> <p>Surgical cap/hat</p> <p>Shoe covers</p>	<p>Mouthwash – 1% Peroxide for 30 seconds</p> <p>Rubber dam</p> <p>High volume suction</p>	Not reported	Not reported	No
		COVID-19	As non COVID-19	As non COVID-19	Not reported	Not reported	
<p>Country Guatemala</p> <p>Source Estomatologic Callege of Guatemala</p>	<p>Definition Dental treatments involve the use of equipment that produces aerosols (drops of saliva and blood less than 5</p>	Non COVID-19	<p>Face mask - N95 or FFP2</p> <p>Fit test required</p> <p>Goggles/face visor</p> <p>Surgical gown</p>	<p>Mouthwash - 1% hydrogen peroxide or 0.2% Povidone Iodine for 1 minute</p> <p>Rubber dam</p>	General ventilation The use of air renewal or filtering devices using original HEPA filters or by plasma they can also represent	Fallow period recommended but time not reported	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Date of first publication 01/05/2020</p> <p>Latest update No update</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/protocol_de_bioseguiridad_od_ontologica_con_enfasis_en_covid-19.pdf</p>	<p>micrometers in diameter that, in a suspected or positive case, are loaded with viruses</p> <p>List of AGP instruments and procedures High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe, powered scaler, intra-oral radiography</p> <p>Permitted treatment Non COVID-19: suggests emergency treatment only COVID-19: Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>		<p>Surgical cap/hat</p> <p>Disposable apron</p> <p>Shoe covers</p>	High volume suction	<p>a measure of contagion control cross between patient and patient. The air conditioning should ideally be turned off, unless it has a filter and extractor</p> <p>negative pressure room</p> <p>Air disinfection treatments by air using ozone or rays type C ultraviolet (UV-C), although effective against other coronaviruses have not been studied against SARS-CoV-2. High doses, could be harmful. The room should be vacated during use. Follow the manufacturer's recommendations in each case. If using UV-C sources, the complete coverage of all surfaces must be ensured</p> <p>Avoid jewellery and accessories</p>		
		COVID-19	Not reported	Not reported	Not reported	Not reported	
<p>Country Honduras</p>	<p>Definition Not reported</p> <p>List of AGP instruments and</p>	Non COVID-19	<p>Face mask - N95 or FFP2</p> <p>Goggles/face visor</p>	<p>Mouthwash - 1% hydrogen peroxide or 0.2% Povidone Iodine or water with salt</p>	<p>General ventilation - HEPA filters and negative pressure room</p>		Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Source College of Dental Surgeons of Honduras</p> <p>Date of first publication Not reported</p> <p>Latest update Not reported</p> <p>http://www.cop.org.pe/wp-content/uploads/2020/04/PROTOCOLO-DE-BIOSEGURIDAD-PARA-EL-CIRUJANO-DENTISTA.pdf</p>	<p>procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification</p> <p>COVID-19: unclear if patients are treated</p>	<p>COVID-19 unclear if patients are treated</p>	<p>Surgical gown</p> <p>Surgical cap/hat</p> <p>Disposable apron</p> <p>Shoe covers</p>		<p>Avoid jewellery and accessories</p>		
<p>Country India</p> <p>Source Dental Council of India</p> <p>Date of first publication 05/07/2020</p> <p>Latest update No update</p> <p>http://www.dciindia.gov.in/Admin/NewsArchives/Dental%20Clinics%20Protocols%20Final.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification</p> <p>COVID-19: Suggests treating patients in a dedicated COVID-19 centre or hospital</p>		<p>Non-COVID</p>	<p>Recommended during all aerosol (preferably completely avoid) and non-aerosol based dental procedures, if carried out.</p> <p>Face mask - triple layer surgical mask and N95 respirator</p> <p>Goggles/face visor (both to be used, fitting goggles with a soft tissue seal)</p> <p>Disposable gowns (change daily)</p> <p>Suitable head caps</p> <p>Shoe covers</p>	<p>Mouthwash - Preoperative 1% hydrogen peroxide. Do not use a spittoon. Use the same sink that had been used for washing the hands and face</p> <p>Rubber dams and high-volume saliva ejectors</p> <p>High volume suction</p>	<p>General ventilation - If possible, use directional airflow, such as from fans, to ensure that air moves through staff work areas before patient treatment areas – not the reverse. A qualified industrial hygienist, General ventilation engineer, or other professionals can help ensure that General ventilation removes, rather than creates, workplace hazards.</p> <p>Fumigate clinics and other areas at the end of the day as per manufacturer's instructions based on the type and</p>	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
					area of the dental clinical room. Fumigation is done on daily basis in clinical or high contact areas and biweekly in non-clinical or low contact areas.		
		COVID-19	As non COVID-19 except FFP3 instead of triple layer surgical mask	As non COVID-19	As non COVID-19	Not reported	
Country Ireland	Definition Not reported	Non COVID-19	Face mask - FFP2 Fit test required Eye protection Disposable apron Surgical cap/hat and shoe covers not recommended	Mouthwash not recommended Rubber dam High volume suction	Not reported	Room clearance time after AGP is not required unless a patient has known or suspected COVID-19	No
Source Irish Dental Association	List of AGP instruments and procedures Not reported						
Date of first publication Not reported	Permitted treatment Non COVID-19: suggests providing care with no further specification						
Latest update 15/05/2020	COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital	COVID-19	As non COVID-19	As non COVID-19	Increased General ventilation by opening window or mechanical method.	60 minutes after an AGP is performed on a patient with known or suspected COVID-19 in a room that is not mechanically ventilated the room should be vacated for 60 minutes after completion of treatment before cleaning commences.	
https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreventionandcontrolguidance/dental-services/Guidance-ManagingInfectionRisk-DentalServices-COVID19.pdf							
Country Italy	Definition Not reported but refers	Non COVID-19	Face mask - FFP2 Goggles and face visor	Minimise procedures that can produce aerosols. Prioritise minimally invasive	Shoes must be cleaned and	10-15 minutes	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Source All major Italian dental associations – available from the Italian government website</p> <p>Date of first publication 30/05/2020</p> <p>Latest update No update</p> <p>http://www.salute.gov.it/portale/news/p3_2_1_1_1.jsp?lingua=italiano&menu=notizie&p=dalministero&id=4835</p>	<p>to published protocols for AGPs</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification</p> <p>COVID-19: Suggests providing care with no further specification. Minimise procedures that can produce aerosols. Prioritise minimally invasive restorative procedures (hand instruments only). Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>		<p>Single use gown (water resistant)</p> <p>Single use cap/hat</p>	<p>restorative procedures (hand instruments only).</p> <p>Mouthwash - hydrogen peroxide solution 1% or Povidone-iodine 0.2% for 1 minute followed by another mouthwash with chlorhexidine 0.2-0.3% for 1 minute</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>disinfected at the end of the day</p> <p>Natural General ventilation/air renovation for 10-15 minutes. If air conditioning is used, filters need to be changed once a week</p>		
		COVID-19	<p>As non COVID-19</p> <p>Reported that there is no evidence that double gloving is effective for the management of suspected or confirmed cases</p>	As non COVID-19	As non COVID-19	As non COVID-19	Not reported
<p>Country Kenya</p> <p>Source Ministry of Health, Director of Healthcare Services, Oral Health Services</p> <p>Date of first publication 24/03/2020</p> <p>Latest update No update</p> <p>https://www.health.go.ke/wp-</p>	<p>Definition Partially</p> <p>List of AGP instruments and procedures 3-in-1 syringe</p> <p>Permitted treatment Non COVID-19: suggests emergency treatment only</p> <p>COVID-19: Suggests emergency treatment only. Unclear if patients are treated in regular</p>	Non COVID-19	<p>Double gloving</p> <p>Face masks - N95 for hospital staff</p> <p>Face shield</p> <p>Disposable apron</p> <p>Waterproof footwear</p>	<p>Rubber dam</p> <p>High volume suction</p>	Not reported	Not reported	No
		COVID-19	As non COVID-19	<p>Rubber dam</p> <p>High volume suction</p>	Not reported	Not reported	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
content/uploads/2020/06/Guidelines-for-Dental-Practicce-with-respect-to-COVID-19-Pandemic.pdf	practice or a dedicated COVID-19 centre or hospital						
<p>Country Kosovo</p> <p>Source Practical guidelines for dentistry professionals in the private sector during the COVID-19 virus pandemic</p> <p>Date of first publication Not reported</p> <p>Latest update Not reported</p> <p>http://osk-ks.org/wp-content/uploads/2020/05/Rekomandimet-e-OSK-per-ordinancat-private-1.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures High speed handpieces, 3-in-1 syringe, powered scaler</p> <p>Permitted treatment Limit use of AGPs Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	<p>Non COVID-19</p> <hr/> <p>COVID-19</p>	<p>Face mask - N95</p> <p>Goggles/face visor</p> <p>Surgical gown/protective clothing</p> <p>Shoe covers recommended for patients on entering clinic</p> <hr/> <p>As non COVID-19</p>	<p>Mouthwash - 1% hydrogen peroxide for 30 seconds</p> <p>Rubber dam</p> <p>High volume suction</p> <hr/> <p>As non COVID-19</p>	<p>General ventilation - natural ventilation avoid use of air conditioning</p> <hr/> <p>As non COVID-19</p>	<p>Not reported</p> <hr/> <p>Not reported</p>	<p>No</p> <hr/> <p></p>
<p>Country Malaysia</p> <p>Source Malaysian Dental Association Safety Advisory to Dental Practitioners during the current Concern of COVID - 19 Infection in the initial relaxation</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing</p>	<p>Non COVID-19</p>	<p>Face mask - surgical masks and N95</p> <p>Goggles/face visor</p> <p>Surgical gown (waterproof)</p> <p>Surgical cap/hat</p>	<p>Mouthwash - 1% hydrogen peroxide or 0.2% Povidone preoperative antimicrobial mouthwash</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>Improve General ventilation in the dental surgery: opening windows, General ventilation fan, air cleaner, HEPA Room Filter</p> <p>Surface disinfection procedures with 62-71% ethanol, 0.5% hydrogen peroxide</p>	<p>There is a need to observe a reasonable turnover time between patient and disinfection of clinical contact surfaces</p>	<p>Yes</p>

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>phase of Movement Control Order</p> <p>Date of first publication Not reported</p> <p>Latest update 01/05/2020</p> <p>https://mda.org.my/home/wp-content/uploads/2020/05/MDA_advisory_COVID19_relaxation_phase_MC_O.pdf</p>	<p>care with no further specification</p> <p>COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>				<p>or 0.1% sodium hypochlorite. Other biocidal agents such as 0.05-0.2% benzalkonium chloride have also been suggested but were reported by some to be less effective</p>		
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	
<p>Country Malta</p> <p>Source Office for the Deputy Prime Minister. Ministry for Health</p> <p>Date of first publication Jun-20</p> <p>Latest update No update</p> <p>https://deputyprimeminister.gov.mt/en/health-promotion/covid-19/Documents/mitigation-conditions-and-guidances/Guidance_Dental_Practices_12Jun20.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures High and slow speed handpieces, powered scalers, 3-in-1 syringes, gagging/retching due to intra-oral radiography or an infected patient coughing</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated</p>	Non COVID-19	<p>PPE requirements stratified based on low medium and high risk procedures.</p> <p>Face mask - N95 or other respirators that offer a higher level of protection should be used. If not available, a combination of a surgical mask and full face shield/visor should be used.</p> <p>Goggles/full face visor</p> <p>Surgical cap/hat for medium risk procedures</p> <p>Disposable apron</p> <p>Shoes should be clinical shoes which are kept on premises and disinfected after every use, if not disposable shoe covers should be worn.</p>	<p>Mouthwash, If AGP 1% hydrogen peroxide, 0.2% Povidone or a combination of Chlorhexidine (0.5-0.12%) + CPC (0.01-1%) rinse prior to treatment.</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>General ventilation - Keep windows open during procedure if no other means of General ventilation. Ensure space is well ventilated. Windows must be closed if there is an air purification system in place which is turned on.</p> <p>Consider the use of upper-room ultraviolet germicidal irradiation as an adjunct to higher General ventilation and air cleaning rates</p>	<p>20 minutes to keep the window open after procedure prior to commencing disinfection and reprocessing of the clinical area. If no General ventilation of windows, 30 minutes. If air purification offers 6 air changes hourly, clinic can be disinfected after 15 minutes of resting time.</p>	No

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
	COVID-19 centre or hospital	COVID-19	Face mask - N95 or other high level respirator Goggles with side protection, face visor Surgical gown covering full length of arms Surgical cap/hat		Schedule patient for last appointment of the day and clean surfaces after the patient is dismissed and before first patient of the morning with Sodium Hypochlorite	Not reported	
Country Mexico	Definition Not reported	Non COVID-19	Face mask - N95 Goggles/face visor Surgical gown	Mouthwash (type not reported)	Not reported	Not reported	No
Source Ministry of Health	List of AGP instruments and procedures High speed handpieces, 3-in-1 syringe	COVID-19	Face mask - N95 Goggles/face visor Surgical gown Shoe covers	As non COVID-19	Not reported	Not reported	
Date of first publication 21/05/2020	Permitted treatment Non COVID-19: emergency treatment only COVID-19: emergency treatment only. Patients can be treated in practice with appropriate PPE, otherwise patients must be treated in a designated COVID-19 centre or hospital						
Latest update 21/05/2020							
https://www.fdiworlddent.al.org/sites/default/files/media/documents/recomendaciones_para_la_practica_odontologica_ante_covid-24.pdf							
Country Montenegro	Definition Not reported	Non COVID-19	Face mask - N95 /FFP2 Goggles/face visor	Mouthwash - 1% hydrogen peroxide or Povidone iodine	Not reported	60 minutes	No
Source Dental Chamber of Montenegro Protocol for providing dental treatment during the COVID-19 epidemic	List of AGP instruments and procedures Not reported	COVID-19	As non COVID-19	As non COVID-19	Not reported	As non COVID-19	
	Permitted treatment Non COVID-19:						

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Date of first publication Not reported</p> <p>Latest update Not reported</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/protokol_za_pruzanje_stomatoloskog_lijecenja_tokom_epidemije_covid-19_0.pdf</p>	<p>suggests providing care with no further specification</p> <p>COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>						
<p>Country Morocco</p> <p>Source Ordre national des médecins dentistes du Maroc</p> <p>Date of first publication 21/05/2020</p> <p>Latest update 21/05/2020</p> <p>https://drive.google.com/file/d/1x8n1etxPIVl_rq7_Z7oG_wjQIHq2BaB3/view</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures High speed handpieces, 3-in-1 syringe, powered scaling, air polishers</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	<p>Non COVID-19</p>	<p>Face mask - FFP2/N95/KN95</p> <p>Goggles/face visor</p> <p>Surgical gown - for treatments with high risk of body fluid projections</p> <p>Disposable apron - for treatments with high risk of body fluid projections</p>	<p>Use slow speed drill instead of high speed handpieces. Limit the water cooling system to a minimum when using handpieces</p> <p>Mouthwash - 1% hydrogen peroxide or 0.2% Povidone-iodine</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>No AGP in treatment room window unless adequate General ventilation available</p> <p>Air cooling system should be limited when AGPs are performed</p>	<p>15 mins following AGPs</p>	<p>No</p>
		<p>COVID-19</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>	<p>As non COVID-10</p>	<p>As non COVID-19</p>	
<p>Country Mozambique</p>	<p>Definition Not reported</p>	<p>Non COVID-19</p>	<p>Face mask - N95 or FFP2</p> <p>Goggles/face visor</p>	<p>Mouthwash - 1% hydrogen peroxide or 0.2% Povidone iodine or water with salt</p>	<p>Not reported</p>	<p>Not reported</p>	<p>No</p>

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
Source Ministry of Health Date of first publication 20/03/2020 Latest update No update https://www.fdiworldental.org/sites/default/files/media/documents/protocolo_de_atendimento_nos_servicos_de_estomatologia_covid-19.pdf	List of AGP instruments and procedures Surgical hand pieces and powered scalers Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital			Rubber dam			
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	Not reported	
Country Myanmar Source Myanmar Dental Association Date of first publication 23/03/2020 Latest update No update https://www.fdiworldental.org/sites/default/files/media/documents/recommendations_to_member_dental_surgeons.pdf	Definition Not reported List of AGP instruments and procedures 3-in-1 syringe Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests emergency treatment only	Non COVID-19	Face mask - medical mask for both patients & attendants (type not specified) Goggles/face visor	Since intraoral radiographs stimulate saliva and cough, use extra-oral panoramic radiography and cone beam radiographs Preoperative antimicrobial mouth rinse should be given to the patient before any procedure to reduce microbe load Rubber dam High volume suction	Not reported	Not reported	No
		COVID-19	Not reported	Not reported	COVID-19 suspected should be treated in well-ventilated room as the last patient to avoid the disease spread and disinfection should		

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
					be done as soon as the procedures are finished		
<p>Country Netherlands</p> <p>Source The Royal Dutch Dental Association</p> <p>Date of first publication 21/04/2020</p> <p>Latest update 29/06/2020</p> <p>https://www.knmt.nl/sites/default/files/20200629_1_eidraad_mondzorg_corona_clmc_v_4.0.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Suggests providing care with no further specification. Unclear if COVID-19 patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	<p>Guidance does not explicitly specify non COVID-19 or COVID-19 patients</p>	<p>Face mask - FFP2 reserved only for those patients with COVID-19 symptoms or confirmed COVID-19</p> <p>Type II/R or Type II + face visor</p>	<p>1% hydrogen peroxide for 1 minute. (3% H₂O₂ with water) pre-procedural rinses</p> <p>Rubber dam</p> <p>High volume suction</p> <p>large mist vacuum</p>	Not reported	Not reported	No
<p>Country New Zealand</p> <p>Source Dental council, Ministry of Health</p> <p>Date of first publication 05/01/2020</p> <p>Latest update 06/09/2020</p> <p>https://www.dcnz.org.nz/assets/Uploads/COVID/Level1-guidelines9Jun20.pdf</p>	<p>Definition</p> <p>List of AGP instruments and procedures High speed handpieces, 3-in-1 syringe, air polishing, powered scalers</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	<p>Non COVID-19</p>	<p>PPE recommended for non-COVID-19 patients is independent of using AGPs</p> <p>Face mask - surgical mask (level 2 or above)</p> <p>Goggles/face visor</p> <p>Surgical gown</p>	<p>Mouthwash</p> <p>Rubber dam</p>	Negative pressure room	Not reported	Yes
		<p>COVID-19</p>	<p>Face mask - N95 or FFP2</p> <p>Full face visor over goggles or prescription glasses</p> <p>Long sleeve impervious gowns</p> <p>Surgical cap/hat</p> <p>Disposable apron</p>	<p>Preferably use a slow speed handpieces that operates at ≤ 40000 rpm, and where possible turn the chip air off, to minimise the aerosol generated during the procedure.</p> <p>Mouthwash</p> <p>Rubber dam</p>	<p>General ventilation</p> <p>Negative pressure room</p>	<p>After treating a probable or COVID-positive patient when aerosol generating procedures have occurred, the room should remain closed for a stand-down period of 20</p>	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
			Shoe covers	High volume suction		minutes prior to cleaning.	
Country Norway Source Norway Dental Health Service – FHI (Folkehelseinstituttet) Date of first publication 03/12/2020 Latest update 26/05/2020 https://www.fhi.no/nettpub/coronavirus/helsepersonell/rad-til-tannhelsetjenesten/#tannbehandling-av-pasienter-som-ikke-er-mistenkt-sannsynlig-eller-bekreftet-med-covid19	Definition Aerosol-generating procedures include certain procedures involving the patient's airways List of AGP instruments and procedures High speed handpieces, slow speed drill, 3-in1 syringe, powered scalers, air polishing device Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital	Non COVID-19	Face mask - surgical mask type II or IIR Goggles/face visor Surgical cap/hat Disposable apron	Mouthwash - 1% hydrogen peroxide (H ₂ O ₂) for at least 1 minute before dental treatment Rubber dam/low suction High volume suction	Not reported	Not reported	Yes
		COVID 19	Face mask - FFP2 or FFP3 Goggles/face visor Surgical gown Surgical cap/hat	Minimise use of handpieces; ultrasonic scaler or aero-polishing devices should not be used, suction and cotton rolls to dry Mouthwash - 1% hydrogen peroxide (H ₂ O ₂) for at least 1 minute before dental treatment Rubber dam/ High volume suction	General ventilation system and size of the treatment room	Fallow period stated but time not reported	
Country Panama Source Odontologic Association of Panama Date of first publication 16/03/2020	Definition Dental procedures which generate misting of saliva outside the patients' oral cavity are considered as AGP List of AGP instruments and procedures	Non COVID-19	Face mask - N95, KN95 or FFP2 mask for AGPs. Surgical face mask for non AGPs Fit test required Goggles/face visor Surgical gown	Mouthwash - preparatory rinse with 1.5% hydrogen peroxide or 0.2% iodine-povidone for 3 seconds High volume suction	General ventilation AGPs conducted in an isolated room to avoid circulating air to the rest of the practice Avoid jewellery and accessories	Not reported	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Latest update 16/05/2020</p> <p>URL not available</p>	<p>High speed handpieces, intra-oral radiography</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification</p> <p>COVID-19: Suggests emergency treatment only in a dedicated COVID-19 centre or hospital</p>		<p>Surgical cap/hat</p> <p>Disposable apron</p>				
		COVID-19	Not reported	Not reported	Not reported	Not reported	
<p>Country Paraguay</p> <p>Source Ministry of Health</p> <p>Date of first publication Not reported</p> <p>Latest update 07/05/2020</p> <p>https://www.mspbs.gov.py/dependencias/portal/adjunto/Of3634-Protocoloatencionodontologica.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures High speed handpieces, slow speed drill, 3-in-1 syringe, intra-oral radiography</p> <p>Permitted treatment Non COVID-19: suggests urgent and emergency treatment only</p> <p>COVID-19: Suggests urgent and emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	Non COVID-19	Not reported	<p>Mouthwash - 1 % hydrogen peroxide or 0.2% Povidone iodine or water with salt</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>General ventilation</p> <p>HEPA filters and negative pressure room</p> <p>UV light/Ozonisation/fumigation/ fogging</p> <p>Notes that as of the date of this report, none of the aforementioned has conclusive scientific evidence regarding covid-19 in the dental office environment and does replace the cleaning and disinfection procedures of the area.</p>	<p>60 minutes – low risk AGP</p> <p>120 minutes - moderate risk AGP</p> <p>180 minutes – high risk AGP</p>	No
		COVID-19	Not reported	As non COVID-19	As non COVID-19	As non COVID-19	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
Country Peru Source Ministry of Health Date of first publication Not reported Latest update Not reported https://cdn.www.gob.pe/uploads/document/file/716209/DIRECTIVA_SANITARIA_N_100-MINSA-2020-DGIESP.pdf	Definition Aerosols are defined as particles that measure less than 50um diameter List of AGP instruments and procedures High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe, powered scaler, intra-oral radiography Permitted treatment Non COVID-19: suggests urgent and emergency treatment only COVID-19: Suggests urgent and emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital	Non COVID-19	Face mask - surgical mask Fit test required Goggles/face visor Surgical gown Surgical cap/hat Disposable apron	Mouthwash - Hydrogen peroxide or Povidone-iodine Rubber dam High volume suction	Avoid any extra equipment/accessories	Not reported	Yes
		COVID-19	As non COVID-19 but wear N95 or FFP2 instead of surgical face mask	As non COVID-19	As non COVID-10	Not reported	
Country Philippines Source Philippine Dental Association Science Committee Date of first publication Not reported Latest update 31/05/2020	Definition Dental procedures which generate misting of saliva outside the patients' oral cavity are considered as AGP List of AGP instruments and procedures High speed handpieces, 3-in-1	Non COVID-19	Double gloving of non-sterile examination over gloves. Gloves should be tapped to the wrists Face mask - N95 or FFP Fit test required Goggles/face visor Surgical gown	Mouthwash - 1% hydrogen peroxide or 0.2% Povidone is recommended at the start and during entire procedure, since SARS-CoV-2 may be vulnerable to oxidation. Rinse initially for 60 seconds, swab in children and patients who are unable to rinse	AGPs can only be conducted in a negative pressure room. AGPs can only be conducted in a negative pressure room. Air flow in the operatory and waiting area should be away from you and your staff.	5 minutes (negative pressure room only)	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
https://www.fdiworldental.org/sites/default/files/media/documents/interim_guidelines_on_infection_prevention_during_covid-19_pandemic.pdf	<p>syringe, powered scaler</p> <p>Permitted treatment</p> <p>Non COVID-19: suggests emergency treatment only</p> <p>COVID-19: Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>		Surgical cap/hat	Rubber dam High volume suction	<p>Open windows or use mechanical General ventilation to increase air changes</p> <p>Clinic staff should ensure that infected air to be delivered out should be sterilized so as not to infect other individuals where infected air is blown out.</p> <p>The US CDC advises dental clinics to consider using HEPA air filtration units DURING and AFTER AGP to reduce particle and droplet counts. CDC advises placing HEPA filter beside the patient's chair, NOT BEHIND the dental health worker.</p> <p>Ultra Violet Germicidal Irradiation (UVGI) - an established means of disinfection and can be used to prevent the spread of certain infectious diseases.</p>		

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
					Ultra Violet Germicidal Irradiation (UVGI) - an established means of disinfection and can be used to prevent the spread of certain infectious diseases.		
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	
Country Poland	Definition Not reported	Non COVID-19	Face mask - FFP2 or FFP3 (depending on the risk of the patient)	Mouthwash - 1% hydrogen peroxide solution, 0.2% Povidone iodine solution, or 0.2% chlorhexidine-alcohol solution	HEPA 14 filters recommended as general ventilation method.	Room General ventilation suggested, but no specific time provided.	Yes
Source The Polish Dental Association	List of AGP instruments and procedures Not reported		Goggle/face visor	Povidone iodine solution, or 0.2% chlorhexidine-alcohol solution	UV light and Ozone mentioned as optional		
Date of first publication 08/04/2020	Permitted treatment Non COVID-19: suggests providing care with no further specification		Surgical Gown	Rubber dam			
Latest update NA	COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital	COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	
https://doi.org/10.5114/jos.2020.94168			Surgical cap/hat	High volume suction			
Country Portugal	Definition AGPs are defined as any procedures that involve a rotating instrument or an air-water syringe	Non COVID-19	Double gloving	Mouthwash	General ventilation	Not reported	No
Source Direcao Geral da Saude (Directorate General of Health)	List of AGP instruments and		Face masks (type not specified)	Rubber dam			
			Goggles/face visor	High volume suction			
			Surgical gown				
			Surgical cat/hat				

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Date of first publication 01/05/2020</p> <p>Latest update No update</p> <p>https://www.omd.pt/covid-19/procedimentos/</p>	<p>procedures Not reported</p> <p>List of permitted treatment Non COVID-19: suggests providing care with no further specification</p> <p>COVID-19: Suggests urgent and emergency treatment only</p>		<p>Disposable apron</p> <p>Shoe covers</p>				
		<p>COVID-19 - Urgent treatments only</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>	<p>Not reported</p>	
<p>Country Romania</p> <p>Source Not reported</p> <p>Date of first publication 25/05/2020</p> <p>Latest update Not reported</p> <p>https://www.dsptimis.ro/data_files/content/legislati-e-covid/files/ordin-873-2020.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification</p> <p>COVID-19: Suggests providing care with no further specification</p>	<p>Non COVID-19</p>	<p>Face mask - disposable surgical mask (changed after each patient). If a standard N95, FFP2, FFP3 mask or equivalent is used, the specific rules of use apply (change to a maximum of 4 hours).</p> <p>Goggles/face visor (protective screen) will be disinfected after each patient or, if they are disposable, will be replaced.</p> <p>Surgical cap/hat</p> <p>Disposable gown</p> <p>Shoe protection</p>	<p>Limit use of particle and aerosol generating procedures and equipment if absolutely necessary, they are scheduled at the end of the working day</p> <p>Mouthwash - both before and at end of treatment for at least 30 seconds using 1% or 1.5% hydrogen peroxide or Povidone iodine 0.2% -10 % (watch out for allergic reactions)</p> <p>Rubber dam</p> <p>High volume</p>	<p>Dental interventions are provided only in rooms with automatic or natural ventilation (window)</p>	<p>Open door / window for at least 15 minutes, after each patient</p>	No
		<p>COVID-19</p>	<p>Face mask - FFP2 / KN95 or FFP3 (standard or equivalent)</p> <p>Goggles/face visor</p> <p>Surgical gown - non-sterile waterproof long-sleeved surgical gown</p>	<p>As non Covid-19</p>	<p>As non Covid-19</p>	<p>As non Covid-19</p>	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
			<p>Surgical cap/hat - disposable waterproof cap</p> <p>Disposable waterproof apron/cape</p> <p>Disposable protective boots or disposable waterproof coveralls</p>				
<p>Country Singapore</p> <p>Source Ministry of Health Circular 132/2020 – Gradual resumption of dental services after COVID-19 circuit breaker period</p> <p>Date of first publication 14/02/2020</p> <p>Latest update 21/05/2020</p> <p>https://www.healthprofessionals.gov.sg/docs/librariesprovider11/default-document-library/moh-cir-no-132_2020_21may20_dental-services-after-cb-period67b93be2bc2542d18c675325ab75f730.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggest urgent/emergency dental care prioritised but a wide range of dental procedures with AGPs are permitted only where no other option is possible</p> <p>COVID-19: suggests AGPs are not provided</p>	<p>Non COVID-19</p>	<p>Face mask - surgical mask</p>	<p>Mouthwash - 1% hydrogen peroxide or 0.2% - 1% povidone or 0.05% - 0.1% cetylpyridinium chloride for 60 seconds</p> <p>Rubber dam</p> <p>High volume suction</p> <p>4-handed dentistry</p>	<p>Not reported</p>	<p>45 minutes</p>	<p>No</p>
		<p>COVID-19</p>	<p>Not reported</p>	<p>Not reported</p>	<p>Not reported</p>	<p>Not reported</p>	
<p>Country Slovakia</p> <p>Source Methodological guidelines of the Chief Expert for the Department of Dentistry</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p>	<p>Non COVID-19</p>	<p>Face mask - FFP2/N95</p> <p>Fit test required</p> <p>Goggles/face visor</p> <p>Surgical gown (change after each AGP)</p>	<p>Mouthwash – 1% Hydrogen peroxide</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>General ventilation – large extractor</p>	<p>Not reported</p>	<p>No</p>

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>for the provision of healthcare during the COVID-19 pandemic</p> <p>Date of first publication 20/05/2020</p> <p>Latest update No update</p> <p>https://www.health.gov.sk/?covid-19-metodicke-usmerenia</p>	<p>Permitted treatment Limit use of high speed handpieces, powered scalers, and air polishers</p> <p>Non COVID-19: suggests providing care with no further specification</p> <p>COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>		Surgical cap/hat Shoe covers				
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	Not reported	
<p>Country Slovenia</p> <p>Source Expert recommendations for the treatment of patients in dental clinics during the release of measures in the field of dentistry in the context of COVID-19</p> <p>Date of first publication 06/05/2020</p> <p>Latest update No update</p> <p>https://www.gov.si/assets/ministrstva/MZ/DOKUMENTI/Koronavirus/Zobozdravstvo/Strokovna-priporocila-za-obravnavo-pacientov-v-zobozdravstvenih-ordinacijah-v-casu-</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: Prioritise those with problems or undergoing a course of treatment. Routine care not obviously restricted but not encouraged. Limit AGPs where possible</p> <p>COVID-19: patients, treated at selected emergency dental clinics and limited to emergency care</p>	Non COVID-19	Face mask - FFP2/N95 for up to 4 hours wear Goggles/face visor Surgical gown – water repellent Surgical cap/hat	Not reported	Not reported	Not reported	No
		COVID-19	Face mask - FFP3 or FFP2 mask Goggles/face visor – disinfect after each patient Surgical gown – waterproof and should be changed after each patient Surgical cap/hat	Not reported	Not reported	10 minutes	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
sproscanja-ukrepov-na-podrocju-zobozdrav.docx			Shoe covers - alternatively use special disinfectable footwear				
<p>Country South Africa</p> <p>Source SADA (South African Dental Association) Dental Protocol in Response to the COVID-19 Pandemic – A South African Private Practice Perspective</p> <p>Date of first publication May-20</p> <p>Latest update No update</p> <p>https://cdn.sada.co.za/files/clinical-resources/downloads/coronavirus/SADA%20DENTAL%20PROTOCOL%20IN%20RESPONSE%20TO%20THE%20COVID19%20PANDEMIC%202020.pdf?v=20200630112402</p>	<p>Definition Any patient and medical care procedure that results in the production of airborne particles (aerosols)</p> <p>List of AGP instruments and procedures 3-in-1 syringe, powered scalers, high and slow speed hand pieces with or without water coolant, surgical hand pieces, high speed hand pieces, maxillofacial and oral surgery where high-speed devices are used, lasers.</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Dentists need to assess their environment to assure optimal isolation and general ventilation, and see the patient at the end of the day. Otherwise, these patients need to be seen in a specific</p>	Non COVID-19	<p>Face mask – FFP2/N95</p> <p>Fit test required</p> <p>Goggles, glasses with side protection and face shields. Disinfect with 70% isopropyl after each procedure.</p> <p>Surgical gown (disposable and reusable) and coveralls. Must meet the following criteria: sterile if reusable, long sleeves to cover arms and water resistant. Cloth gowns are not recommended, as they are not water resistant. Commercially available reusable gowns should be water resistant, washable and sterilisable according to manufacturer's recommendations.</p> <p>Surgical cap/hat - patient could be provided with disposable headwear. Additional hair cover is recommended when working in a sterile or high-risk environment with long hair and beards.</p> <p>Plastic aprons are not recommended for dental and surgical purposes</p>	<p>Utilise lowest aerosol-generating equipment and instrumentation when delivering any type of restorative or hygiene care.</p> <p>Mouthwash - the patient must rinse their mouths immediately with hydrogen peroxide (1% for 2 periods of 30 seconds each) or Povidone-iodine rinses (0.23% to 1%) as well as nasal spray. Although not scientifically tested or proven, we strongly suggest that the patient use the same rinsing procedure as before contact at the completion of the appointment</p> <p>The use of Listerine and chlorhexidine is not supported by the literature</p> <p>Rubber dam</p> <p>High volume suction</p> <p>Postoperative sanitation</p>	<p>General ventilation</p> <p>Perform disinfectant fogging only for extraordinary circumstances and purposes in patient-care areas. Disinfectant fogging recommendations refer to the spraying of chemicals, such as formaldehyde or phenol-based agents, to decontaminate environmental surfaces or disinfect the air in health care facilities. Newer technologies involving fogging for room decontamination fogging-type applications, such as ozone mists or vaporised hydrogen peroxide, have become available and are preferred.</p>	Not reported	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
	COVID clinic or hospital, not in a regular practice		because they do not provide full body and arm cover. Shoe covers Patient could be provided with disposable overshoes and shoe covers. It is suggested that overshoes and shoe covers should be single patient use.				
		COVID-19	As non COVID-19	Keep appointments short COVID-positive or suspected positive patients need to be scheduled for the end of the day or referred to areas where they can be managed safely (a dedicated facility or a hospital theatre environment recommended)	Optimal patient isolation General ventilation - Remember to factor in enough time for General ventilation specific attention to your own environment and disinfection of the treatment area between cases	Not reported	
Country Spain Source Spanish National Dentistry Council Date of first publication 13/04/2020 Latest update 01/05/2020 https://www.consejodentistas.es/comunicacion/actualidad-consejo/notas-	Definition Interventions that generate aerosols are considered riskier including tracheotomies, all operative activity that requires high-speed rotary instruments, phases in carving in prosthodontics, surgery that involves the generation of aerosols (implantology, osteotomy, etc.),	Non COVID-19	Double gloving >2mts No face mask. 1-2mts surgical face mask. <1mts FFP2 face mask. If AGP, use FFP2 mask and in specific cases consider using FFP3 masks Fit test - After hand wash, put on the mask,	Mouthwash - pre-procedural 1% hydrogen peroxide, 0.2% Povidone iodine or 0.05 cetylpyridinium chloride. 0.1% mouthwash for 30 seconds. Avoid the use of spittoons and use disposable cups. Rubber dam High volume suction	General ventilation - Although numerous systems are available for air filtration, none present concrete scientific effectiveness against SARS-CoV2. Methods include: - ozone purification - purification with chlorine dioxide - use of	15 minutes between patients	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
de-prensa-consejo/item/1783-plan-estrategico-de-accion-para-clinicas-dentales-durante-el-periodo-de-desescalada.html	<p>certain phases in orthodontics (removal of brackets and polishing) etc.</p> <p>AGPs are categorised by No AGPs, AGP and AGPs with high risk of spillage.</p> <p>List of AGP instruments and procedures High speed handpieces, 3-in-1 syringes, powered scalers, surgical handpieces, hard tissue lasers, air polishers</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification. AGPs are classified as low, medium and high risk depending on PPE COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>		<p>then adjust and fit test in nose and chin.</p> <p>Goggles/face visor - certified eye protectors based on the UNE-EN 166: 2002 standard for protection against liquids can be integral glasses against drops or face shields against splashes.</p> <p>Surgical gown</p> <p>Surgical cap/hat</p>	<p>The usual work clothes and footwear must be exclusively for work, avoiding the use of street clothes or footwear in the office. It is important to avoid wearing rings, bracelets, pendants, watches or other items, since they behave like reservoirs of COVID 19</p>	<p>hypochlorous acid - purification by generation of hydroxyl radicals (OH) - use of UVC radiation - use of negative pressure or high pressure, associated with HEPA (High-Efficiency Particulate Air) filters</p> <p>The Spanish Society for Environmental Health (SESA) advises against chlorine dioxide and ozone in disinfecting the air against the coronavirus. The Ministry of Health in Spain, does not recommend hypochlorous acid. The use of UVC rays in the dental field is not indicated. While hydroxyl radical generating systems are effective with other viruses, it is not yet documented for SARS-Cov-2</p>		
		COVID-19	As non COVID-19	Avoid mouthwash	As non COVID-19	Not reported	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
Country Switzerland Source Swiss Dental Association Date of first publication 17/04/2020 Latest update 28/05/2020 https://www.sso.ch/fileadmin/upload_sso/5_Newsletter/2020/Covid-19-Positionspapier4-6-F.pdf	Definition Not reported List of AGP instruments and procedures Not reported Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital	Non COVID-19	Face mask - surgical mask or FFP2 mask if rubber dam can't be used Goggles/face visor	Mouthwash - 1.5% hydrogen peroxide solution or Povidone-iodine solution mouthwash for 30 seconds Rubber dam High volume suction	General ventilation – windows or adequate General ventilation system	At least 15 minutes for complete airing of room post AGP Forbidden to treat patient in a room without window or adequate General ventilation system	No
		COVID-19 - Only in case of absolute emergency that can't be postponed	Face mask - FFP2 worn for up to 30 minutes following last AGP and as long as patient is in the room Goggles/face visor Surgical gown	As non COVID-19	As non COVID-19	Up to 30 minutes	
Country Tunisia Source Conseil National d'Ordre des Médecins Dentistes de la Tunisie Date of first publication 12/04/2020 Latest update 11/05/2020 https://cnomdt.tn/docs/relatedInfo/protocole-covid4-cnomdt-26.pdf	Definition Not reported List of AGP instruments and procedures Not reported Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital	Non COVID-19	Face mask - FFP2 Goggles/face visor Surgical gown Surgical cap/hat	Use slow speed drill instead of high speed handpieces Mouthwash - hydrogen peroxide or Povidone-iodine Rubber dam whenever possible High volume suction		15 minutes	No
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Country United Arab Emirates (Dubai)</p> <p>Source Dubai Health Authority</p> <p>Date of first publication 2/06/2020</p> <p>Latest update No update</p> <p>https://services.dha.gov.ae/sheryan/wps/portal/home/circular-details?circularRefNo=CLR-2020-00000236&isPublicCircular=1&fromHome=true</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	<p>Non COVID-19</p>	<p>Face mask - N95</p> <p>Goggles/face visor</p> <p>Surgical gown for AGPs</p> <p>Separate shoes for clinical activities</p>	<p>Mouthwash - 1% hydrogen peroxide or 0.2% Povidone iodine</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>Designated room, HEPA filter</p>	<p>20 minutes between appointments</p>	<p>No</p>
		<p>COVID-19</p>	<p>Not reported</p>	<p>Not reported</p>	<p>Not reported</p>	<p>Not reported</p>	
<p>Country UK - England</p> <p>Source Office of the Chief Dental Officer, England</p> <p>Date of first publication 06/04/2020</p> <p>Latest update No update</p> <p>https://www.england.nhs.uk/coronavirus/wp-content/uploads/sites/52/2020/06/C0575-dental-transition-to-recovery-SOP-4June.pdf</p>	<p>Definition Aerosol generating procedures (AGPs) are defined as any medical and patient care procedure that results in the production of airborne particles (aerosols).</p> <p>List of AGP instruments and procedures High-speed handpieces and high speed surgical handpieces, powered scalers, 3-in-1 syringe</p> <p>Permitted treatment Non COVID-19: Suggests providing care with no further</p>	<p>Non COVID-19</p>	<p>Face mask - FFP3 for AGPs</p> <p>Fit test required</p> <p>Goggle/face visor</p> <p>Surgical gown</p> <p>Rubber dam/low suction</p> <p>High volume suction</p>		<p>Windows in neutral pressure rooms should be opened, or extractor fans that vent to the exterior should be used as air passing externally will be highly diluted and is not considered to be a risk. The greater the number of air changes per hour (General ventilation rate), the sooner any aerosol will be cleared. to be a risk</p>	<p>Negative pressure room: 20 minutes</p> <p>Neutral room: 60 minutes</p>	<p>No</p>
		<p>COVID-19</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
	<p>specification. Whilst in sustained community transmission treat all patients as high risk. Treatment with extra care and PPE, minimise APGs</p> <p>COVID-19: Suggests emergency treatment only in a dedicated COVID-19 centre or hospital</p>						
<p>Country UK - Northern Ireland</p> <p>Source Health and Social Care Board</p> <p>Date of first publication 06/04/2020</p> <p>Latest update 22/06/2020</p> <p>http://www.hscbusiness.hscni.net/pdf/Preparation%20for%20the%20Re-establishment%20of%20the%20GDS%20Update%202022%20June%2020.pdf</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures High speed handpieces, powered scalers, 3-in-1 syringe, slow-speed drill with coolant spray (e.g. surgical extractions), air abrasion and air polishing</p> <p>Permitted treatment Non COVID-19: suggests emergency treatment only</p> <p>COVID-19: Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	Non COVID-19	<p>Face mask - FFP3</p> <p>Fit test required</p> <p>Goggles/face visor</p> <p>Surgical gown</p>	<p>Rubber dam</p> <p>High volume suction</p>	<p>General ventilation (Windows may be opened)</p>	<p>After providing an AGP, it is recommended that the room is left vacant with the door closed for 20 minutes in a negative pressure isolation room or 60 minutes in a neutral pressure room before cleaning and decontamination</p> <p>If your practice has an air flow system or equivalent in place manufacturers guidance should be sought regarding the possible reducing air settling time with 6 air changes recommended prior to cleaning and decontamination</p>	No

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
		COVID-19	As non COVID-19	As non-COVID-19	As non-COVID-19	As non-COVID-19	
<p>Country UK - Scotland</p> <p>Source Scottish Dental Clinical Effectiveness Programme</p> <p>Date of first publication 25/05/2020</p> <p>Latest update 06/12/2020</p> <p>http://www.sdcep.org.uk/wp-content/uploads/2020/06/SDCEP-Resuming-General-Dental-Services-Following-COVID-19-Shutdown-Update-120620.pdf</p>	<p>Definition Aerosol generating procedures (AGPs) are defined as any medical or patient care procedure that results in the production of airborne particles (aerosols).</p> <p>List of AGP instruments and procedures 3-in-1 syringe, high-speed handpieces, powered scalers</p> <p>Permitted treatment Non COVID-19: suggests urgent and routine treatment but no AGP treatment. COVID-19: suggests AGP treatment in a dedicated COVID-19 centre or hospital</p>	<p>Non COVID-19</p>	No AGP related advice /recommendations	No AGP related advice /recommendations	No AGP related advice/recommendations	No AGP related advice /recommendations	No
		COVID-19	No AGP related advice /recommendations	No AGP related advice /recommendations	No AGP related advice /recommendations	No AGP related advice /recommendations	
<p>Country UK - Wales</p> <p>Source Chief Dental Officer, Wales</p> <p>Date of first publication 08/06/2020</p> <p>Latest update No update</p>	<p>Definition AGPs are procedures that create aerosols (air suspension of fine ($\leq 5\mu\text{m}$) particles)</p> <p>List of AGP instruments and procedures High speed handpieces, air polishers, powered scaler, air polishing,</p>	Non COVID-19	<p>Face mask - FFP3 or FFP2</p> <p>Fit test - Copies of fit test certificates (where issued) and records of fit tests (pass and fail) for each staff member and each mask type should be retained by the practice.</p>	<p>Mouthwash mentioned but document indicates lack of evidence regarding COVID-19</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>Space appointments to ensure social distancing. Book at the end of a session</p> <p>Schedule time for procedure and time for decontamination (to include air clearance in an appropriate room)</p>	60 minutes when air changes per hour (ACPH) is not known. Expert infection control team advice should be sought when calculating times. If the patient has evidence of immunity (laboratory) or of being non-infected	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
https://gov.wales/sites/default/files/publications/2020-06/standard-operating-process-for--non-covid-19-dental-centres-providing-aerosol-generating-procedures-in-wales.pdf	<p>Slow speed drill, 3-in-1 syringe)</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification</p> <p>COVID-19: Suggests providing care with no further specification. Treat patients in a dedicated COVID-19 centre or hospital</p>		<p>Full face shield if FFP is not water resistant</p> <p>Surgical gown</p> <p>Disposable apron - Only if gown is not water repellent</p>		<p>Negative pressure room with known air changes per hour</p> <p>General ventilation - Windowless surgeries with no air changes should not be used. Windows should be open where appropriate (this may not be appropriate where closed environment, negative pressure systems are in place). Air conditioning which recirculates air into the surgery should be switched off if it is linked to other practice areas Air conditioning that removes air from the environment should be switched on (venting of extractor fans must be assessed alongside the risk of contamination of other areas) with notices placed at the vents. Seek advice in relation to air conditioning as required. (Seek advice for windowless surgeries as these</p>	<p>(laboratory) and there is no possibility of infection on the day of treatment, the patient may be treated with standard infection control measures with no additional settle time. Leave the room for 60 minutes after an AGP.</p> <p>Measurements can be taken by health and safety/ infection control teams to determine air changes per hour for each surgery and the exact time needed. If this has taken place, records of measurements and advice should be kept.</p> <p>The current recommended time for negative pressure rooms is 20 minutes. If a negative pressure room then with 12+ air exchanges leave for 20 minutes</p>	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
					<p>should not routinely be used for AGP</p> <p>Air purifiers and devices to improve air quality can be considered but there is insufficient evidence on their effectiveness in relation to COVID-19 at this time. If practices wish to consider these pieces of equipment, they should seek advice (contact the dental COVID-19 lead who will ask for advice from the local Infection Prevention Control Teams). Any decision should be clearly documented and retained by the practice for possible future reference. The default position otherwise is to follow the guidance described above</p> <p>Fogging techniques (with e.g. hypochlorous acid) are not currently recommended</p>		
		COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	As non COVID-19	
Country Ukraine	Definition Not reported	Non COVID-19	Face mask – type not specified	4-handed dentistry	General ventilation	20-30 minutes	No

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
<p>Source National Academy of Medical Sciences of Ukraine</p> <p>Date of first publication 08/05/2020</p> <p>Latest update No update</p> <p>http://amnu.gov.ua/spilni-rekomendaciyi-du-instytut-stomatologiyi-ta-shhelepno-lyczevoyi-hirurgiyi-namn-ukrayiny-i-go-asocziacziya-stomatologiv-ukrayiny-shhodo-protypidemichnyh-zahodiv-v-stomatologichnyh-zakladah-ohor/</p>	<p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification. Minimise AGPs</p> <p>COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>		<p>Goggles/face visor</p> <p>Surgical gown/protective suit</p>	<p>Mouthwash</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>Quartz Lamps</p>		
		COVID-19	Not reported	Not reported	Not reported	Not reported	
<p>Country Uruguay</p> <p>Source Ministry of Health</p> <p>Date of first publication Not reported</p> <p>Latest update Not reported</p> <p>https://www.gub.uy/ministerio-salud-publica/sites/ministerio-salud-publica/files/documentos/noticias/MSP_RECORNACIONES_ODONTOLOGOS_HIGIENISTAS_DENTALES.pdf</p>	<p>Definition The practice of dentistry, as well as the use of dental instruments and equipment, can generate aerosols that contain droplets of water particles, saliva, blood, microorganisms and other wastes. These biological materials settle on the environment and work surfaces, dental care personnel and the patient</p> <p>List of AGP instruments and procedures</p>	Non COVID-19	<p>Face mask - N95 or FFP2</p> <p>Goggles/face visor</p> <p>Surgical gown</p> <p>Surgical cap/hat</p> <p>Disposable apron</p>	<p>Mouthwash - 70% alcohol, 3% hydrogen peroxide or 10 volumes (medical hydrogen peroxide) or iodopovidone pre- and post-treatment</p> <p>High volume suction</p>			No
		COVID-19	Not reported	Not reported	Not reported	Not reported	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
	<p>High speed handpieces, 3-in-1 syringe, intra-oral radiography</p> <p>Permitted treatment Non COVID-19: suggests emergency treatment only</p> <p>COVID-19: Suggests providing care with no further specification. Treat in a dedicated COVID-19 centre or hospital</p>						
<p>Country USA</p> <p>Source American Dental Association (ADA)</p> <p>Date of first publication 24/04/2020</p> <p>Latest update 06/09/2020</p> <p>https://success.ada.org/~media/CPS/Files/Open%20Files/ADA_Return_to_Work_Toolkit.pdf?utm_campaign=covid-19-Return-to-Work-Toolkit&utm_medium=email&_hsmi=86924194&_hsenc=p2ANqtz-HVpP4Wh9sKaPxqGZlA1G9Ro1coYT29m3pRXN1TDeZSalr3_-PzyReYsAnmYdx6fX_rJmFesmgepGb1_VhbsxZ6Zu6g&utm_content=86</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Not reported</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification.</p> <p>COVID-19: Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	<p>Non COVID-19</p>	<p>Face mask - surgical face mask, N95 or KN95</p> <p>Fit test required for N95 and KN95. Annual fit testing requirement lifted and currently unavailable</p> <p>Goggles/face visor</p> <p>Surgical gown (clinical judgement)</p> <p>Surgical cap/hat (clinical judgement)</p> <p>Shoe covers (clinical judgement)</p>	<p>Rubber dam</p> <p>High volume suction</p> <p>Use hand scaling instead of ultrasonic scaling</p>	<p>Not reported</p>	<p>Until further evidence demonstrates a clear answer, the ADA is not making a recommendation on waiting for a specific time period to begin cleaning the operatory.</p>	<p>No</p>
		<p>COVID-19</p>	<p>As non COVID-19</p>	<p>As non COVID-19</p>	<p>Not reported</p>	<p>As non COVID-19</p>	

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
924194&utm_source=hs_automation							
<p>Country USA</p> <p>Source Centers for Disease Control and Prevention (CDC)</p> <p>Date of first publication Not reported</p> <p>Latest update 17/06/2020</p> <p>https://www.cdc.gov/coronavirus/2019-ncov/hcp/dental-settings.html</p>	<p>Definition Not reported</p> <p>List of AGP instruments and procedures Avoid use of dental handpieces, 3-in-1 syringe, powered scalers</p> <p>Permitted treatment Non COVID-19: suggests providing care with no further specification. Treat all patients as high risk with extra care and PPE if necessary</p> <p>COVID-19: Suggests providing care with no further specification. Avoid AGPs if possible. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>	Non COVID-19	<p>Face mask - N95 or a respirator that offers a higher level of protection such as other disposable filtering face piece respirators, powered air-purifying or elastomeric respirators.</p> <p>Fit test – dental health-care personnel should be medically cleared and fit tested if using respirators with tight fitting face pieces</p> <p>Goggles, protective eyewear with solid side shields or a full face shield</p> <p>Gown or protective clothing</p>	<p>Mouthwash</p> <p>Rubber dam</p> <p>High volume suction</p>	<p>General ventilation - systems that provide air movement in a clean-to-less clean flow direction... are better at protecting staff and patients.</p> <p>Consider the use of a HEPA air filtration unit while the patient is undergoing and immediately following an AGP to reduce aerosol concentrations and increase the effectiveness of the turnover time. Place the HEPA unit near the patient's chair but not behind the DHCP.</p> <p>Consider the use of upper-room ultraviolet germicidal irradiation as an adjunct to higher General ventilation and air cleaning rates</p> <p>Ensure to account for the time required to clean and disinfect operating rooms between patients when</p>	Not reported	Yes

Country	AGP details	COVID-19 status	Personal protective equipment	Procedural mitigation	Environmental mitigation	Fallow time	Linked evidence
					calculating your daily patient volume		
		COVID-19	Face mask - N95 or higher level respirator Fit test Goggles/face visor Surgical gown		AGPs should ideally take place in an airborne infection isolation room	Not reported	
Country Zimbabwe	Definition	Non COVID-19	Not reported	Not reported	Not reported	Not reported	No
Source Zimbabwe Dental Association COVID-19 Dental Practice Recommendations/Guidelines	List of AGP instruments and procedures High speed handpieces, 3-in-1 syringe and scaler use	COVID-19	Face mask – ideally N95 Goggles/face visor Protective gown	Manage emergency without the generation of aerosol Mandatory use of hydrogen peroxide mouth rinse before dental procedures Rubber dam	Not reported	Not reported	
Date of first publication Not reported	Permitted treatment Non COVID-19: suggests providing care with no further specification. AGPs undertaken with standard precautions COVID-19: Suggests emergency treatment only with AGPs if possible. If AGP required, undertake proper COVID-19 precautions. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital						
Latest update 22/04/2020 https://www.fdiworlddental.org/sites/default/files/media/documents/covid-19_dental_practice_recommendations_guidelines.pdf							

Non COVID-19 refers to patients who are presumed to have negative COVID-19 status; COVID-19 refers to patients with suspected or confirmed positive COVID-19 status. ABHR, alcohol-based hand rub, ACH, air changes per hour; AGP, aerosol generating procedure; HEPA, high-efficiency particulate air; HVAC, heating ventilation and air conditioning

Apéndice 2. PGA reportado por país (Tabla en inglés como en el reporte original de esta Revisión Rápida)

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: Argentina Source: Ministry of Health - Ministerio de Salud Argentina COVID-19 Recomendaciones Para Odontologia Date of first publication: 10/06/2020 Latest update: No update</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/covid-19_recomendaciones_para_odontologia.pdf</p>	Yes	High speed handpieces, slow speed drill, 3-in-1 syringe, powered scalers	Suggests prioritising emergency treatment but treatment is not limited to emergencies	Suggests urgent treatments only and avoiding AGPs as much as possible. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Australia Source: Australian Dental Association Date of first publication: Various publication dates and updates</p> <p>https://www.ada.org.au/Covid-19-Portal/Dental-Professionals</p>	Yes	High speed handpieces, Surgical handpieces, 3-in-1 syringe, Powered scalers (sonic/ ultrasonic), Air polishers, Lasers	Suggests taking standard precautions	Suggests AGPs are avoided for suspected COVID-19 cases. Urgent or emergency treatment only for confirmed cases in a dedicated COVID-19 centre or hospital, not in a regular practice
<p>Country: Austria Source: Austrian Dental Chamber Date of first publication: 03/04/2020 Latest update: 04/05/2020</p> <p>https://stmk.zahnaerztekammer.at/zahnaerztinnen/informationen-corona-virus/</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification
<p>Country: Belgium Source: Conseil de l'Art Dentaire on behalf of the Service Public Fédéral de Santé Publique Date of first publication: 19/04/2020 Latest update: 24/05/20</p> <p>https://5199.f2w.fedict.be/sites/default/files/documents/2020-04-19_covid-19_modification_20200524_-_protocole_soins_dentaires.pdf</p>	No	None reported	Suggests providing care with no further specification	Suggest treating patients in a dedicated COVID-19 centre or hospital, not in a regular practice

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: Bolivia Source: College of Dentists of La Paz Date of first publication: 01/05/2020 Latest update: No update</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/protocolo_de_bio-seguridad_para_la_atencion_a_pacientes_y_prevenccion_del_covid-19_en_centreas_y_consultorios_odontologicos.pdf</p>	Yes	High speed handpieces, slow speed drill, 3-in-1 syringe	Suggests emergency treatment only	Suggests emergency treatment only but patients should ideally be treated in a high level health institution (hospital)
<p>Country: Brazil Source: Biosafety Working Group of the São Paulo Regional Dentistry Council Date of first publication: 01/04/2020 Latest update: No update</p> <p>http://www.crosp.org.br/uploads/arquivo/747df5ff505e7beff33c1a5ff5d6f12a.pdf</p>	Yes	High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe	Suggests providing care with no further specification	Suggests providing care with no further specification
<p>Country: Bulgaria Source: Recommendations/instructions from the crisis headquarters of the Bulgarian Dental Union Date of first publication: 03/06/2020 Latest update: No update</p> <p>https://bzs.bg/препоръки-инструкции-от-кризисния-щаб/</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification
<p>Country: Burkino Faso Source: Ordre National des Chirurgiens Dentistes du Burkina Ministère de la Santé Date of first publication: Not reported Latest update: Not reported</p> <p>URL not available</p>	No	None reported	Suggests emergency treatment only	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country Canada</p> <p>Source Royal College of Dental Surgeons of Ontario COVID-19: MANAGING INFECTION RISKS DURING IN-PERSON DENTAL CARE</p> <p>Date of first publication 15/03/2020</p> <p>Latest update 31/05/20</p> <p>https://www.rcdso.org/en-ca/rcdso-members/2019-novel-coronavirus/covid-19--managing-infection-risks-during-in-person-care</p>	Yes	high-speed, low-speed and other rotary handpieces, powered scalers, and 3-in-1 syringes.	in-person care for all deferred, non-essential, and elective services, in addition to emergency and urgent care.	Patients who need urgent and emergency care that cannot be delayed
<p>Country: Chile</p> <p>Source: Division of Disease Prevention and Control Oral Health Department</p> <p>Date of first publication: Not reported</p> <p>Latest update: Not reported</p> <p>http://www.colegiodentistas.cl/inicio/wp-content/uploads/2020/04/orientaciones-atencion-odontologica-covid-19.pdf</p>	Yes	High speed handpieces, 3-in-1 syringe, powered scalers	Suggests providing care with no further specification	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: China</p> <p>Source: Chinese Stomatological Association - Chinese Response to COVID-19 in Dental Field</p> <p>Date of first publication: Not reported</p> <p>Latest update: 06/05/2020</p> <p>URL not available</p>	Yes	High speed handpieces, powered scalers	Suggests emergency treatment only	Suggests AGPs are not provided in COVID-19 patients
<p>Country: Colombia</p> <p>Source: Ministry of Health and Social Protection - Ministerio de Salud y Protección Social Bogotá</p> <p>Date of first publication: May 2020</p> <p>Latest update: No update</p> <p>https://www.minsalud.gov.co/Ministerio/Institucional/Procesos%20y%20procedimientos/GIPS31.pdf</p>	Yes	High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe	Suggests providing care with no further specification	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: Costa Rica Source: Ministry of Health - Ministerio de Salud Costa Rica Date of first publication: 27/03/2020 Latest update: No update</p> <p>https://www.ministeriodesalud.go.cr/sobre_ministerio/prensa/docs/lineamientos_odontologos_v2_27032020.pdf</p>	Yes	High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe	Suggests providing care with no further specification	Suggests emergency treatment only treated in a dedicated COVID-19 centre or hospital
<p>Country: Croatia Source: Croatian Chamber of Dental Medicine Date of first publication: 04/05/2020 Latest update: No update</p> <p>https://www.hkdm.hr/novost/1836/Smjernice-i-protokoli-za-otvaranje-i-rad-ordinacija-dentalne-medicine-i-dentalnih-laboratorija</p>	Yes	High speed handpieces, Powered scalers (sonic/ultrasonic)	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Denmark Source: SUNDHEDSSTYRELSEN, Danish Health Board Date of first publication: 18/04/20 Latest update: 22/04/20</p> <p>https://www.sst.dk/da/udgivelser/2020/haandtering-af-covid-19_-kritisk-funktioner-i-tandplejen</p>	Yes	High speed handpieces, Surgical handpieces, Slow speed drill, 3-in-1 syringe, Powered scalers (sonic/ultrasonic)	Suggest testing every patient for COVID-19 before providing care	Suggest postponing any appointment while patient is COVID-19 positive
<p>Country: Dominican Republic Source: Ministry of Health Date of first publication: Not reported Latest update: Not reported</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/recomendaciones_para_la_gui%C3%A1_de_apertura_de_los_servicios_odontologicos_en_la_republica_dominicana_debido_a_la_pandemia_covid-19.pdf</p>	Yes	Slow speed drill, 3-in-1 syringe, intra-oral radiography	Suggests providing care with no further specification	Suggests providing care with no further specification except triage patients prior to treatment to identify higher risk and take precautions. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Ecuador Source: Ministry of Health Date of first publication: 28/05/2020 Latest update: No update</p>	Yes	High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe, powered	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
https://www.fdiworlddental.org/sites/default/files/media/documents/protocolo_para_atencion_odontologica_durante_la_emergencia_sanitaria_por_covid_19.pdf		scaler, intra-oral radiography		dedicated COVID-19 centre or hospital
<p>Country: Estonia Source: Ministry of Health Date of first publication: 07/02/2020 Latest update: 21/05/2020</p> <p>URL not available</p>	No	None reported	Suggests providing care with no further specification	Suggests AGPs are not provided in COVID-19 patients
<p>Country: Finland Source: Sector of administration of the Ministry of Social Affairs and Health Date of first publication: Not reported Latest update: 01/06/2020</p> <p>https://thl.fi/fi/web/infektioaudit-ja-rokotukset/audit-ja-torjunta/audit-ja-taudinaiheuttajat-a-o/koronavirus-covid-19/ohje-suun-terveydenhuollon-yksikoille-covid-19-epidemia-aikana</p>	Yes	High speed handpieces, Slow speed drill, 3-in-1 syringe, Powered scalers (sonic/ultrasonic)	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: France Source: Haute Autorité de Santé (HAS) Date of first publication: 14/05/2020 Latest update: 25/05/2020</p> <p>https://www.has-sante.fr/jcms/p_3184961/fr/mesures-et-precautions-essentielles-lors-des-soins-bucco-dentaires-apres-le-deconfinement</p>	Yes	High speed handpieces, 3-in-1 syringe, Powered scalers (sonic/ultrasonic), Air polishers	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Germany Source: Institut der Deutschen Zahnärzte Date of first publication: Not reported Latest update: 24/04/2020 (version 3)</p> <p>https://www.idz.institute/publikationen/sonstiges/system-von-standardvorgehensweisen-fuer-zahnarztpraxen-waehrend-der-coronavirus-pandemie.html</p>	No	None reported	Suggests providing care avoiding AGPs using low-speed instrumentation	Suggests providing care avoiding AGPs using low-speed instrumentation. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: Greece Source: Instructions for dental employees in dentists and patients Date of first publication: Not reported Latest update: Not reported</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/odigies_pros_odontiatroys_ergazomenoys_se_odontiatreia_kai_astheneis_0.pdf</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Guatemala Source: Estomatologic Callege of Guatemala Date of first publication: 01/05/2020 Latest update: No update</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/protocolo_de_bioseguridad_odontologica_con_enfasis_en_covid-19.pdf</p>	Yes	High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe, powered scaler, intra-oral radiography	Suggests emergency treatment only	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Honduras Source: College of Dental Surgeons of Honduras Date of first publication: Not reported Latest update: Not reported</p> <p>http://www.cop.org.pe/wp-content/uploads/2020/04/PROTOCOLO-DE-BIOSEGURIDAD-PARA-EL-CIRUJANO-DENTISTA.pdf</p>	No	None reported	Suggests providing care with no further specification	Unclear if patients are treated
<p>Country: India Source: Dental Council of India Date of first publication: 05/07/2020 Latest update: No update</p> <p>http://www.dciindia.gov.in/Admin/NewsArchives/Dental%20Centres%20Protocols%20Final.pdf</p>	No	None reported	Suggests providing care with no further specification	Suggest treating patients in a specific COVID-19 centre or hospital, not in a regular practice

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: Ireland Source: Irish Dental Association Date of first publication: Not reported Latest update: 15/05/2020</p> <p>https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreventionandcontrolguidance/dentalservices/Guidance-ManagingInfectionRisk-DentalServices-COVID19.pdf</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Italy Source: All major Italian dental associations – available from the Italian government website Date of first publication: 30/05/2020 Latest update: No update</p> <p>http://www.salute.gov.it/portale/news/p3_2_1_1_1.jsp?lingua=italiano&menu=notizie&p=dalministro&id=4835</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Kenya Source: Ministry of Health, Director of Healthcare Services, Oral Health Services Date of first publication: 24/03/2020 Latest update: No update</p> <p>https://www.health.go.ke/wp-content/uploads/2020/06/Guidelines-for-Dental-Practise-with-respect-to-COVID-19-Pandemic.pdf</p>	Yes	3-in-1 syringe	Suggests emergency treatment only. Treat all patients as high risk with extra care and PPE if necessary	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Kosovo Source: Practical guidelines for dentistry professionals in the private sector during the COVID-19 virus pandemic Date of first publication: Not reported Latest update: Not reported</p> <p>http://osk-ks.org/wp-content/uploads/2020/05/Rekomandimet-e-OSK-per-ordinancat-private-1.pdf</p>	Yes	High speed handpieces, 3-in-1 syringe, powered scaler	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: Malaysia Source: Malaysian Dental Association Safety Advisory to Dental Practitioners during the current Concern of COVID - 19 Infection in the initial relaxation phase of Movement Control Order Date of first publication: Not reported Latest update: 01/05/2020</p> <p>https://mda.org.my/home/wp-content/uploads/2020/05/MDA_advisory_COVID19_relaxation_phase_MCO.pdf</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Malta Source: Office for the Deputy Prime Minister. Ministry for Health Date of first publication: Jun-20 Latest update: No update</p> <p>https://deputyprimeminister.gov.mt/en/health-promotion/covid-19/Documents/mitigation-conditions-and-guidances/Guidance_Dental-Practices_12Jun20.pdf</p>	Yes	High speed handpieces, Slow speed drill, 3-in-1 syringe, Powered scalers (sonic/ ultrasonic), Intra-oral radiography	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Mexico Source: Ministry of Health Date of first publication: 21/05/2020 Latest update: 21/05/2020</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/recomendaciones_para_la_practica_odontologica_ante_covid-24.pdf</p>	Yes	High speed handpieces, 3-in-1 syringe	Suggests treating emergencies only	Suggests emergency treatment only. Patients can be treated in practice with appropriate PPE, otherwise patients must be treated in a designated COVID-19 hospital
<p>Country: Montenegro Source: Dental Chamber of Montenegro Protocol for providing dental treatment during the COVID-19 epidemic Date of first publication: Not reported Latest update: Not reported</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/protokol_za_pruzanje_stomatoloskog_lijecenja_tokom_epidemije_covid-19_0.pdf</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: Morocco Source: Ordre national des médecins dentistes du Maroc Date of first publication: 21/05/2020 Latest update: 21/05/2020 https://drive.google.com/file/d/1x8n1etxPIVI_rq7_Z7oG_wjQIHq2BaB3/viiew</p>	Yes	Powered scaling, Use of handpieces, air polishing, 3-in-1 syringe	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Mozambique Source: Ministry of Health Date of first publication: 20/03/2020 Latest update: No update https://www.fdiworlddental.org/sites/default/files/media/documents/protocolo_de_atendimento_nos_servicos_de_estomatologia_covid-19.pdf</p>	No	None reported	Suggests providing care with no further specification	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Myanmar Source: Myanmar Dental Association Date of first publication: 23/03/2020 Latest update: No update https://www.fdiworlddental.org/sites/default/files/media/documents/recommendations_to_member_dental_surgeons.pdf</p>	Yes	3-in-1 syringe	Suggests providing care with no further specification	Suggests emergency treatment only
<p>Country: Netherlands Source: The Royal Dutch Dental Association Date of first publication: 21/04/2020 Latest update: 29/06/2020 https://www.knmt.nl/sites/default/files/20200629_leidraad_mondzorg_corona_clmc_v_4.0.pdf</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: New Zealand Source: Dental council, Ministry of Health Date of first publication: 05/01/2020 Latest update: 06/09/2020</p> <p>https://www.dcnz.org.nz/assets/Uploads/COVID/Level1-guidelines9Jun20.pdf</p>	Yes	High speed handpieces, 3-in-1 syringe, Powered scalers (sonic/ultrasonic), Air polishers	Suggests providing care with no further specification	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Norway Source: Norway Dental Health Service – FHI (Folkehelseinstituttet) Date of first publication: 03/12/2020 Latest update: 26/05/2020</p> <p>https://www.fhi.no/nettpub/coronavirus/helsepersonell/rad-til-tannhelsetjenesten/#tannbehandling-av-pasienter-som-ikke-er-mistenkt-sannsynlig-eller-bekreftet-med-covid19</p>	Yes	High speed handpieces, Slow speed drill, 3-in-1 syringe, Powered scalers (sonic/ultrasonic), Air polishers	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Panama Source: Odontologic Association of Panama Date of first publication: 16/03/2020 Latest update: 16/05/2020</p> <p>URL not available</p>	Yes	High speed handpieces, intra-oral radiography	Suggests providing care with no further specification	Suggests emergency treatment only in a dedicated COVID-19 centre or hospital
<p>Country: Paraguay Source: Ministry of Health Date of first publication: Not reported Latest update: 07/05/2020</p> <p>https://www.mspbs.gov.py/dependencias/porta/adjunto/0f3634-Protocoloatencionodontologica.pdf</p>	Yes	High speed handpieces, slow speed drill, 3-in-1 syringe, intra-oral radiography	Suggests urgent care and emergency treatment only	Suggests urgent care and emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Peru Source: Ministry of Health Date of first publication: Not reported Latest update: Not reported</p> <p>https://cdn.www.gob.pe/uploads/document/file/716209/DIRECTIVA_SA_NITARIA_N_100-MINSA-2020-DGIESP.pdf</p>	Yes	High speed handpieces, surgical handpieces, slow speed drill, 3-in-1 syringe, powered	Suggests emergency treatment only	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
		scaler, intra-oral radiography		
Country: Philippines Source: Philippine Dental Association Science Committee Date of first publication: Not reported Latest update: 31/05/2020 https://www.fdiworlddental.org/sites/default/files/media/documents/interim_guidelines_on_infection_prevention_during_covid-19_pandemic.pdf	Yes	High speed handpieces, 3-in-1 syringe, powered scaling	Suggests emergency treatment only	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
Country: Poland Source: The Polish Dental Association Date of first publication: 08/04/2020 Latest update: NA https://doi.org/10.5114/jos.2020.94168	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
Country: Portugal Source: Direcao Geral da Saude (Directorate General of Health) Date of first publication: 01/05/2020 Latest update: No update https://www.ond.pt/covid-19/procedimentos/	No	High speed handpieces, 3-in-1 syringe	Suggests providing care with no further specification	Suggests urgent and emergency treatment only
Country: Romania Source: Not reported Date of first publication: 25/05/2020 Latest update: No update https://www.dsptimis.ro/data_files/content/legislatie-covid/files/ordin-873-2020.pdf	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification
Country: Singapore Source: Ministry of Health Circular 132/2020 – Gradual resumption of dental services after COVID-19 circuit breaker period Date of first publication: 14/02/2020 Latest update: 21/05/2020	No	None reported	Suggests urgent and emergency care is prioritised but a wide range of dental procedures with AGPs are permitted where no other option is possible	Suggests AGPs are not provided in COVID-19 patients

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
https://www.healthprofessionals.gov.sg/docs/librariesprovider11/default-document-library/moh-cir-no-132_2020_21may20_dental-services-after-cb-period67b93be2bc2542d18c675325ab75f730.pdf				
<p>Country: Slovakia Source: Methodological guidelines of the Chief Expert for the Department of Dentistry for the provision of healthcare during the COVID-19 pandemic Date of first publication: 20/05/2020 Latest update: No update</p> <p>https://www.health.gov.sk/?covid-19-metodicke-usmernenia</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Slovenia Source: Expert recommendations for the treatment of patients in dental centres during the release of measures in the field of dentistry in the context of COVID-19 Date of first publication: 06/05/2020 Latest update: No update</p> <p>https://www.gov.si/assets/ministrstva/MZ/DOKUMENTI/Koronavirus/Zob_ozdravstvo/Strokovna-priporocila-za-obravnavo-pacientov-v-zobozdravstvenih-ordinacijah-v-casu-sproscanja-ukrepov-na-podrocju-zobozdrav.docx</p>	No	None reported	Suggests prioritising those with problems or undergoing a course of treatment. Routine care not obviously restricted but not encouraged. Limit AGPs where possible	Suggests patients are treated at selected emergency dental centres and limited to emergency care
<p>Country: South Africa Source: SADA (South African Dental Association) Dental Protocol in Response to the COVID-19 Pandemic – A South African Private Practice Perspective Date of first publication: May-20 Latest update: No update</p> <p>https://cdn.sada.co.za/files/central-resources/downloads/coronavirus/SADA%20DENTAL%20PROTOCOL%20IN%20RESPONSE%20TO%20THE%20COVID19%20PANDEMIC%202020.pdf?v=20200630112402</p>	Yes	High speed handpieces, Surgical handpieces, Slow speed drill, 3-in-1 syringe, Powered scalers (sonic/ultrasonic), Lasers	Suggests providing care with no further specification	Suggest providing care with no further specification. Dentists need to assess their environment to assure optimal isolation and ventilation, and see at the end of the day. Otherwise, these patients need to be seen in a dedicated COVID-19 centre or hospital, not in a regular practice
<p>Country: Spain Source: Spanish National Dentistry Council</p>	Yes	High speed handpieces, Surgical	Suggest providing care with no further	Suggests providing care with no further

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Date of first publication: 13/04/2020 Latest update: 01/05/2020</p> <p>https://www.consejodentistas.es/comunicacion/actualidad-consejo/notas-de-prensa-consejo/item/1783-plan-estrategico-de-accion-para-centreas-dentales-durante-el-periodo-de-desescalada.html</p>		handpieces, 3-in-1 syringe, Powered scalers (sonic/ultrasonic), Air polishers, Lasers	specification. AGPs are classified as low, medium, and high risk depending on PPE	specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Switzerland Source: Swiss Dental Association Date of first publication: 17/04/2020 Latest update: 28/05/2020</p> <p>https://www.sso.ch/fileadmin/upload_sso/5_Newsletter/2020/Covid-19-Positionspapier4-6-F.pdf</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: Tunisia Source: Conseil National d'Ordre des Médecins Dentistes de la Tunisie Date of first publication: 12/04/2020 Latest update: 11/05/2020</p> <p>https://cnomdt.tn/docs/relatedInfo/protocole-covid4-cnomdt-26.pdf</p>	No	None reported	Suggests providing care, with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: United Arab Emirates (Dubai) Source: Dubai Health Authority Date of first publication: 2/06/2020 Latest update: No update</p> <p>https://services.dha.gov.ae/sheryan/wps/portal/home/circular-details?circularRefNo=CIR-2020-00000236&isPublicCircular=1&fromHome=true</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: UK - England Source: Office of the Chief Dental Officer, England Date of first publication: 06/04/2020 Latest update: No update</p> <p>https://www.england.nhs.uk/coronavirus/wp-content/uploads/sites/52/2020/06/C0575-dental-transition-to-recovery-SOP-4June.pdf</p>	Yes	High speed handpieces, Surgical handpieces, 3-in-1 syringe, Powered scalers (sonic/ultrasonic)	Suggests providing care with no further specification. Whilst in sustained community transmission, suggests treating all patients as high risk. Treatment with extra care and PPE. Minimise APGs	Suggests emergency treatment only in a dedicated COVID-19 centre or hospital
<p>Country: UK - Northern Ireland Source: Health and Social Care Board Date of first publication: 06/04/2020 Latest update: 22/06/2020</p> <p>http://www.hscbusiness.hscni.net/pdf/Preparation%20for%20the%20Re-establishment%20of%20the%20GDS%20Updated%2022%20June%202020.pdf</p>	Yes	High speed handpieces, Surgical handpieces, 3-in-1 syringe, Powered scalers (sonic/ultrasonic), Air polishers	Suggests emergency treatment only	Suggests emergency treatment only. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: UK- Scotland Source: Scottish Dental Centreal Effectiveness Programme Date of first publication: 25/05/2020 Latest update: 06/12/2020</p> <p>http://www.sdcep.org.uk/wp-content/uploads/2020/06/SDCEP-Resuming-General-Dental-Services-Following-COVID-19-Shutdown-Update-120620.pdf</p>	Yes	High speed handpieces, 3-in-1 syringe, powered scalers (sonic/ultrasonic)	Suggests urgent and routine treatment but no AGP treatment.	Suggests AGP treatment in a dedicated COVID-19 centre or hospital
<p>Country: UK- Wales Source: Chief Dental Officer, Wales Date of first publication: 08/06/2020 Latest update: No update</p> <p>https://gov.wales/sites/default/files/publications/2020-06/standard-operating-process-for--non-covid-19-dental-centres-providing-aerosol-generating-procedures-in-wales.pdf</p>	Yes	High speed handpieces, Slow speed drill, 3-in-1 syringe, powered scalers (sonic/ultrasonic), air polishers	Suggests providing care with no further specification	Suggest providing care with no further specification and treat patients in a specific COVID centre or hospital, not in a regular practice

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: Ukraine Source: National Academy of Medical Sciences of Ukraine Date of first publication: 08/05/2020 Latest update: No update</p> <p>http://amnu.gov.ua/spilni-rekomendacziyi-du-instytut-stomatologiyi-ta-shhelepno-lyczevoyi-hirurgiyi-namn-ukrayiny-i-go-asocziacziya-stomatologiv-ukrayiny-shhodo-protyepidemichnyh-zahodiv-v-stomatologichnyh-zakladah-ohor/</p>	No	None reported	Suggests providing care with no further specification	Suggest providing care with no further specification and treat patients in a dedicated COVID centre or hospital, not in a regular practice
<p>Country: Uruguay Source: Ministry of Health Date of first publication: Not reported Latest update: Not reported</p> <p>https://www.gub.uy/ministerio-salud-publica/sites/ministerio-salud-publica/files/documentos/noticias/MSP_RECOMENDACIONES_ODONTOLOGOS_HIGIENISTAS_DENTALES.pdf</p>	Yes	High speed handpieces, 3-in-1 syringe, intra-oral radiography	Suggests emergency treatment only	Suggest providing care with no further specification and treat patients in a specific COVID centre or hospital, not in a regular practice
<p>Country: USA Source: American Dental Association Date of first publication: 24/04/2020 Latest update: 06/09/2020</p> <p>https://success.ada.org/~media/CPS/Files/Open%20Files/ADA_Return_to_Work_Toolkit.pdf?utm_campaign=covid-19-Return-to-Work-Toolkit&utm_medium=email&_hsmt=86924194&_hsenc=p2ANqtz-HVpP4Wh9sKaPqxGZIA1G9Ro1coYT29m3pRXN1TDeZSalr3_-PzyReYsAnmYdx6fX_rJmFesmgpG1_VhbsxZ6Zu6g&utm_content=86924194&utm_source=hs_automation</p>	No	None reported	Suggests providing care with no further specification	Suggests providing care with no further specification. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital
<p>Country: USA Source: Centers for Disease Control and Prevention (CDC) Date of first publication: Not reported Latest update: 17/06/2020</p> <p>https://www.cdc.gov/coronavirus/2019-ncov/hcp/dental-settings.html</p>	Yes	High speed handpieces, Slow speed drill, 3-in-1 syringe, powered scalers (sonic/ultrasonic)	Suggest providing care with no further specification. Treat all patients as high risk, with extra care and PPE if necessary	Suggests providing care with no further specification. Avoid AGPs if possible. Unclear if patients are treated in regular practice or a dedicated

Country	AGPs reported	List of AGP instruments or procedures	Treatment recommendation for Non COVID-19 patients	Treatment recommendation for COVID-19 patients
<p>Country: Zimbabwe Source: Zimbabwe Dental Association COVID-19 Dental Practice Recommendations/Guidelines Date of first publication: Not reported Latest update: 22/04/2020</p> <p>https://www.fdiworlddental.org/sites/default/files/media/documents/covid-19_dental_practice_recommendations_guidelines.pdf</p>	Yes	High speed handpieces, 3-in-1 syringe and scaler use	Suggests providing care with no further specifications. AGPs undertaken with standard COVID-19 precautions	<p>COVID-19 centre or hospital</p> <p>Suggests emergency treatment only without AGPs if possible. If procedure requires AGP, undertake proper COVID-19 precautions. Unclear if patients are treated in regular practice or a dedicated COVID-19 centre or hospital</p>

Non COVID-19 refers to patients who are presumed to have negative COVID-19 status; COVID-19 refers to patients with suspected or confirmed positive COVID-19 status

AGP, aerosol generating procedure