

Post-COVID-19 Re-opening - Standard Operating Procedures (SOP) and Risk Reduction Recommendations (RRR)

Version 1.2 – 12th June 2020



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1. Objectives of this document

- To provide a written reference document for our patients, colleagues and practice team outlining in detail all practice policy at LCIAD relating to re-opening for routine patient care after the COVID-19 coronavirus world pandemic has started to subside in the UK.
- To collate as far as is possible all the available evidence, key opinions and regulatory advice into one working document. Whilst covering all aspects in detail, we wish for this information to be as concise and easily referenceable as possible.
- To make clear our responsibilities and decision processes based on the above to provide a safe but pragmatic approach to re-opening LCIAD to routine dental care as the pandemic numbers decline.
- This document supersedes all previous advice and position statements versions will be updated.

For feedback or comments please contact me on koray.feran@lciad.co.uk.

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2. Introduction and background

- Coronaviruses are a large family of RNA viruses which may cause illnesses in animals or humans. They are known for causing respiratory infections ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS).
- As early as November 2019, a new strain of coronavirus infection with a significant mortality rate was reported in the Wuhan province of China. Its source was unknown and thought to be a cross transmission from an animal, most likely an ingested bat.
- The disease was first reported to the World Health Organisation country office in China on 31st December 2019 and was classified as a Severe Acute Respiratory Syndrome due to infection by coronavirus 2 (SARS-CoV-2). It was declared a public health emergency of international concern on 30th January 2020.
- On 11th February 2020 the World Health Organisation named this new infection coronavirus disease 19 (COVID-19) to indicate the year in which it was discovered (i.e. SARS-CoV-2 is the name of the virus; coronavirus disease 19, or COVID-19 is the name of the disease).
- COVID-19 was declared a pandemic by the World Health Organisation on 11th March 2020.
- During the time of writing there is only one known strain. The first virus isolate taken from the first recognised patient from Wuhan in December 2019 is the same strain as the most recent isolates taken anywhere else in the world in May 2020. (An isolate is the virus isolated from an infected patient. Whilst there may be minor differences in the genome of these viruses from patient to patient, they have not been proven to significantly change the behaviour of virus and as such are not regarded as separate strains amongst microbiologists. Whilst there are tens of discernible isolates, there still seems only to be one strain without significant change in behaviour since the first detected infection.)
- During the time of writing there is no vaccine or approved medicine that is proven to be effective against COVID-19 though clinical trials are being conducted on various medication combinations.
- For the first time in our professional lives, it has been necessary to cease practicing routine dentistry for more than two months upon advice from our regulators.



- The COVID-19 coronavirus pandemic has led to a complete rethink of whether and how our practice procedures need to be modified for the future.
- During the shutdown our profession has been caught up in a frenzy of activity, evaluating the sparse literature on this new disease and wondering whether we can extrapolate data from previous virulent respiratory viruses to help counter the effects of COVID-19.
- Countless forums across a range of disciplines have been opened for colleagues to share their first-hand knowledge and many bodies both public and private have collated the most up-to-date information to produce a plethora of different standard operating procedure guidelines for model dental practice once we can return to work.
- This has been an ongoing exercise with sometimes hourly updates to advice. Frustratingly, the evidence and advice has sometimes been contradictory, open to interpretation and unclear in some areas.
- It is clear that for the most part we have a significant lack of long-term data as to how COVID-19 behaves. It is not clear why we see the vast range of presenting symptoms in patients from around the world that range from mild and barely detectable disease to significant morbidity and mortality in higher-risk groups.
- LCIAD acknowledges that as a healthcare provider and an employer we have a duty of care to the team and to our patients to ensure that the environment at LCIAD is safe to work in and that everybody is clear about the actions and procedures that have been put into place to protect everyone attending LCIAD from infection by coronavirus.
- This document has been created after having read as much of the available evidence as we are able and forms the basis of our policy at LCIAD to balance the dental needs of our patients with a pragmatic approach to reducing risk of cross infection between all persons that attend LCIAD.
- This document will be updated as required in light of developing advice and knowledge.

2.1. Current regulatory advice for dental practices in the UK

LCIAD accepts the following regulatory bodies as having ultimate control and influence over when and to what extent we are able to return to work. Most of these have issued guidance in relation to dental practice rather than absolute regulations.

A list of references for regulatory documents is available at the end of this document.

The Government of the United Kingdom and Public Health England

https://www.gov.uk/coronavirus https://coronavirus.data.gov.uk/ https://www.gov.uk/government/collections/coronavirus-COVID-19-list-ofguidance https://www.gov.uk/government/publications/COVID-19-management-ofexposed-healthcare-workers-and-patients-in-hospital-settings

Office of the Chief Dental Officer of England (OCDO)

COVID-19 guidance and standing operating procedure - Delay phase https://www.england.nhs.uk/primary-care/dentistry/leading-the-change/ https://www.england.nhs.uk/coronavirus/wpcontent/uploads/sites/52/2020/04/C0282-COVID-19-urgent-dental-care-sop.pdf last updated 18th May 2020 at time of writing.

The General Dental Council

https://www.gdc-uk.org/information-standards-guidance/COVID-19/COVID-19latest-information/COVID-19-latest-guidance-for-england

NHS England

https://www.england.nhs.uk/coronavirus/publication/preparedness-letters-fordental-care/

The Care Quality Commission (CQC)

https://www.cqc.org.uk/guidance-providers/dentists https://www.cqc.org.uk/guidance-providers/dentists/current-position-dentalcare-services-regarding-COVID-19-updates

The Faculty of General Dental Practitioners (FGDP)

https://www.fgdp.org.uk/news/COVID-19-updated-guidance-and-resourceslockdown-eases



https://www.fgdp.org.uk/news/COVID-19-updated-guidance-and-resourceslockdown-eases#Aerosol%20Generating%20Procedures

Dental Indemnity Companies: There are several but the three largest are listed. DP (Dental Protection) https://www.dentalprotection.org/coronavirus/coronavirus-faq---uk-specific https://www.dentalprotection.org/coronavirus/coronavirus-faq-dentolegal-andclinical-guidance

DDU (Dental Defence Union) https://www.theddu.com/guidance-and-advice/latest-updates-andadvice/returning-to-practice-after-the-coronavirus-pandemic

MDDUS (Medical and Dental Defence Union of Scotland) <u>https://www.mddus.com/coronavirus/dental-advice</u> <u>https://www.mddus.com/coronavirus/coronavirus-update/2020/may/COVID-19-</u> <u>mddus-dento-legal-advice-for-members-practising-in-england</u>

The British Dental Association

https://bda.org/advice/Coronavirus/Pages/latest-updates.aspx

Regulatory points and timeline of how coronavirus has affected dental practices in the private sector in the UK

With so many regulators it has been challenging to decide which advice to follow. There has been incomplete and sometimes frankly contradictory guidance for private practices from multiple sources that are open to interpretation. A broad summary of events and our interpretation of the current situation and advice would be as follows:

- The Chief Dental Officer, currently Dr Sara Hurley, leads NHS England's dental team and provides professional and clinical leadership to Public Health England (PHE), the Department of Health (DH), Health Education England (HEE), The Care Quality Commission (CQC) and any other relevant departmental bodies.
- Whilst strictly speaking the Chief Dental Officer is an adviser to the government for commissioning in the NHS dental services, her position and advice has been referred to by almost all other regulators including the Care Quality

Commission, The General Dental Council and the dental indemnity companies as well as the UK government to cover all dental services.

- It should be remembered that whilst dental care in the UK is often divided into private and NHS sectors, almost all dental practices are private businesses owned by individuals or corporate bodies. This means that whilst a practice may be referred to as an NHS practice this means that it has a contract with the NHS for the provision of dental care for which it is remunerated by the NHS but it is not owned or controlled by the National Health Service.
- In view of the increasing scope of the pandemic, following consultation with our colleagues, staff and patients, the decision was taken to close LCIAD to routine patient treatments from 5.00pm on Monday 23rd March 2020. LCIAD has remained closed to all patient care but a few emergency treatments during this entire period.
- In the third of a series of regular updates to general dental practices and community dental services on 25th March 2020 (publications approval reference: 001559) the Chief Dental Officer for England, Dr Sara Hurley, ordered all general dental practices and community dental services to stop all routine, non-urgent dental care including orthodontics until advised otherwise. Accordingly, the Chief Dental Officer's order that all routine face-to-face dental care should stop as of 25th March 2020 at the commencement of the national lockdown remains in force until specifically updated.
- However, this order to cease face-to-face dentistry for all practices other than
 urgent dental care centres (UDC's) set up within the NHS is at variance with
 the exclusions stated within the <u>Guidance for closing certain businesses and
 venues in England</u> produced by the Cabinet Office and the Ministry of
 Housing, Communities & Local Government which indicates that dental
 services (alongside opticians, audiology services, chiropody, chiropractors,
 osteopaths and other medical or health services (including physiotherapy
 and podiatry services), and services relating to mental health as well as
 pharmacies and chemists, including non-dispensing pharmacies) were
 excluded from the order to close.
- The Chief Dental Officer for England, Dr Sara Hurley, has not to date further clarified whether her advice should apply to both NHS and the private sector of dental care and has also not made the distinction between the two sectors when giving further advice.

- During a <u>webinar on 3rd April 2020</u>, The Chief Dental Officer for England, Dr Sara Hurley, confirmed that her advice did not apply to private practices, stating that any questions private practitioners had should be directed to the Department of Health for advice. However, the Department of Health has not given any specific advice outside that given to the NHS to dental surgeries regarding guidelines for re-opening.
- The phrasing of the <u>COVID-19 guidance and standard operating procedure</u> <u>updated on 18th May</u>, suggests that the guidance is applicable to NHS England and the organisational operation of UDC centres and makes no reference to private practice. It acknowledges that this guidance is likely to be updated as the pandemic situation develops.
- All primary dental care services were asked to establish a remote UDC service. For LCIAD this consisted of information placed on our website and on our answer phones to ask patients who required urgent dental assistance to email or telephone the practice in the event of an emergency. To date we have fortunately had very few incidences where urgent emergency care has been required, reflecting our attention to quality care in the past.
- Whilst UDC centres have been set up under the NHS, their locations are not made public and referral to them requires a complex triage and referral process via NHS email which most private practices do not have. Attempts at obtaining an NHS email by private practices have anecdotally proven to be laborious and in most cases unsuccessful. It is also our view that UDC's are not geared towards dealing with the scope of dental care offered at LCIAD and are largely providing advice, simple pain relief, extractions, temporary fillings and antibiotics as appropriate.
- The five-page, 11-step document <u>A Prompt to Prepare</u> dated 19th May 2020 from the Office of the Chief Dental Officer of England provided the framework for dental practices to consider when re-opening, but offered no timetable.
- The Care Quality Commission issued the following on 20th May 2020 in response to a legal challenge by JFH Law that it did not have the authority to close down dental practices:

"The decision to offer dental care services is one for the provider to take.

Alongside guidance given by Public Heath England (PHE) and the General Dental Council (GDC), CQC encourage dental providers to give proper

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consideration to the communications from the Chief Dental Officer (CDO) regardless of whether their practice is NHS, private, or mixed.

CQC cannot require providers of dental care services to close, unless we find clear evidence of a breach of our regulations that requires consideration of the use of our powers under the Health and Social Care Act 2008 and associated regulations.

As part of our regulatory function we will assess the extent to which providers are providing an appropriate level of safety within the context of our regulations. In doing so we will refer to prevailing guidance, not limited to but including guidance from PHE, the CDO and GDC to help us reach a judgement on the extent to which the service currently being provided complies with our Regulations."

- A webinar by Julia Furley from JFH Law on 14th May 2020 regarding re-opening of private practices from a legal point of view is available <u>here.</u>
- The GDC issued the following statement on 21st May 2020 regarding its regulation and the decisions and judgement of individual practitioners:

"Expert advice on the clinical aspects of COVID-19 will continue to come from the health authorities of the four nations and we will continue to signpost to this guidance as and when it is updated. But that guidance will inevitably not cover every potential scenario, and therefore, dental professionals will need to continue exercising their professional judgement and weigh the risks in any given situation (our emphasis). They will also need to continue to assess whether they are trained, competent and indemnified to carry out the activity in question.

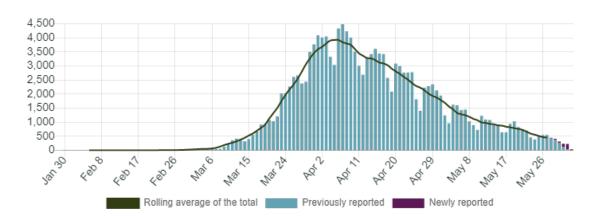
However, in the recent joint statement from the healthcare regulators we said that we understand that in highly challenging circumstances, professionals may need to depart from established procedures to care for patients and that should concerns be raised, relevant environmental and human factors would be taken into account."

• On the day of updating (12th June 2020) according to <u>https://coronavirus.data.gov.uk/</u> there were 36 new laboratory-confirmed cases of confirmed infection in the UK and 359 deaths in the UK. Since recordings began, there has been a total of 658 cases in Westminster (258



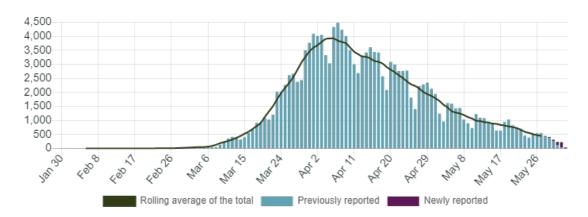
cases per 100,000 residents or 0.26%) and 27,042 throughout Greater London (303.6 cases per 100,000 or 0.3%) to date.

• The graphs below from https://coronavirus.data.gov.uk/ on 31st May 2020 shows that the UK curve for the first wave of infection is diminishing at a steady rate.



• Daily number of lab confirmed cases in England by specimen date.

• Daily additional COVID-19 associated UK deaths by date reported.



- Current World Health Organisation global statistics can be seen <u>here</u> and show a continued slow increase of global prevalence, with Europe as the only region with diminishing incidence.
- COVID-19 is still at "**alert level 4**" (out of 5) in the UK which indicates that it is still a disease with a severe risk of transmission. However, the R-number (the Reproduction number or the number of infected individuals infected by an



infected patient) remains at 0.75 in England with the value lower in London than for the North East and Yorkshire.

- Following Prime Minister's briefing on 25th May 2020, it has been accepted that most shops and non-essential businesses in the UK will be able to commence a phased opening from 15th June. We feel that we are in a position to safely open for selected dental procedures before this date.
- On 28th May, the Chief Dental Officer for England, Dr Sara Hurley, and Director of Primary Care and System Transformation, Matt Neligan, released an <u>official</u> <u>document</u> (Publications approval reference: 001559) addressed to "Dental practices" and CC'd to "Regional dental commissioning leads" (not specifying whether this encompasses all dental practices or only those with NHS contracts). It stated that this correspondence "now sets out next steps for delivery of NHS dental services in England, as the NHS moves into the second phase of the COVID-19 response."
 - It goes on to state that "we have consensus on the commencement of re-opening services. We support the full resumption of routine dental care, in a way that is safe, operationally deliverable and allows dental practices flexibility to do what is best for patients and their teams. Central to this is the acknowledged clinical judgement of practitioners and their ability to risk manage the delivery of dental care, as service provision is recommenced."
 - It continues to acknowledge that clear safety standards including personal protective equipment (PPE) and infection prevention and control (IPC) protocols are required to safely deliver dental care as recommended by Public Health England.
 - It states "Today, we are asking that all dental practices commence opening from Monday 8th June for all face-to-face care, where practices assess that they have the necessary IPC and PPE requirements in place".
- It is our view that as a leading, quality private dental practice with already the most stringent cross infection control procedures woven into our pre-COVID-19 standard operating procedures, we will be in a position to re-open the practice for patient care early in June with additional measures as listed later and throughout this document.
- We have given due consideration to the latest advice on 20th May and 28th May 2020 given by the Chief Dental Officer and feel that the cross infection



control policies we have in place are easily on a par with or exceeding the requirements for the UDC centres.

 The Office of the Chief Dental officer has released a new Standard Operating procedure protocol on <u>4th June 2020</u>.

3. Principles of our Risk Reduction Recommendations (RRR) and measures taken

- It is highly unlikely that COVID-19 will be eradicated as a disease for the foreseeable future. Like common cold or influenza viruses, the coronavirus responsible for COVID-19 will remain at large in the population to some extent.
- There is no currently accepted medication effective against the causative agent and it is likely that an effective vaccine is at least a year away. It would normally take approximately 4 to 5 years for an effective vaccine to be researched, formulated, produced, safety-tested and efficacy-tested and then brought to market. Therefore, even a year is likely to be an optimistic estimate though many laboratories around the world are working towards this target.
- It is highly unlikely that the current lockdown or similar restriction in social contact will be in force for this length of time until a vaccine or suitable targeted medication against SARS-CoV-2 will become readily available. The UK government is therefore proposing a phased re-opening of venues over the next few weeks or months to allow the economy to resume functioning. The population will therefore gradually be exposed to this virus in the coming months.
- This means that there will always remain a risk that coronavirus infection can be contracted during normal day-to-day activity and it is impossible for LCIAD to control the environments in which our patients and staff circulate outside the practice. However, we can do a considerable amount to reduce the risk of exposure to this virus at LCIAD itself.
- There have been many suggestions to reduce risk and we have adopted as many of them as possible while still allowing us to carry out dental procedures to a high standard. We have also questioned and researched rationale behind advice given.
- We often read that many of these additional procedures have no evidence to support their efficacy in reduction of cross infection. However, absence of evidence is not necessarily evidence of absence, especially for a disease that is so new. We must keep an open mind and learn from similar outbreaks.
- True scientific evidence is sparse yet building. However, it is very difficult to produce clear scientific evidence where the study required to test a hypothesis may be unethical. For example, a study to test if there is any difference between using:

- o no mask
- o a conventional dental or medical tie surgical mask
- o an FFP2 mask
- o a non-fit tested FFP3 mask
- o a fit-tested FFP3 mask
- a non-fit tested but same manufacturer FFP3 mask that previously passed a fit test but from a different batch a month later

on the cross-infection rates between known coronavirus carriers and uninfected individuals would be unethical to carry out. Therefore, it is extremely difficult to determine scientifically what the relative risks of transmission are between the different choices. Our advice is therefore is based on a multitude of sources that carry a reasonable academic weight in light of previous outbreaks but without necessarily having full scientific evidence.

- Our advice aims for the best possible combination of safety and practicality so
 that we can provide necessary dental care for our patients without increasing
 their risk of contracting coronavirus infection beyond that already present in the
 general population and indeed ideally providing a lower risk environment by
 controlling as many risk factors as possible within the practice.
- Research is continuing at a rapid pace and regular updates in our information and procedures will undoubtedly occur.
- Our view is that every little helps. Common sense dictates that anything that can help to reduce exposure of an individual to a potential source of infection should be adopted where the environment can be controlled.
- It is clear that we cannot completely eliminate all risk of infection absolutely and any risk of cross infection of coronavirus at the dental surgery will need to be weighed against the risks and benefits of not providing required dental treatment. To weigh up the balance of risks and whether to take this risk is entirely at the discretion of the individual patient attending the clinic.
- Our starting point is the list of the government's basic social distancing and personal precaution guidelines on <u>https://www.gov.uk/coronavirus</u> which all team members and patients should be familiar with and comply with for day-today protection.
- Further measures specifically custom written for LCIAD are listed below in more detail but are based around:



- risk assessment of our entire team prior to commencing re-opening
- pre-appointment triaging of risk levels for individual patients
- reduction in incidences of contact between staff and patients as far as possible
- o reduction in risk of transmission whilst on LCIAD premises.
- Many of the protocols that provide safety to patients and staff alike at LCIAD are already in place and are tried and tested over the years. A dental practice is one of the best controlled and cleanest environments alongside operating theatres and food production facilities.
- We are regulated by a bewildering array of professional bodies and guidance. As indicated in this document, we must keep up to date as part of our compliance in order to maintain both our high standards as well as a safe dental practice.
- Whilst this may seem like an onerous document to plod through, please be assured that it is the culmination of many days of work and consideration and will hopefully relay to the reader that we take this issue seriously.

4. Practice preparation and team training period (26th May to 12th June 2020)

- Dr Koray Feran, clinical director of LCIAD, and Zoe Harmer, practice manager of LCIAD, are the leads for the implementation of the post-COVID-19 Standard Operating Procedures. Nina Kaniewska is senior nurse responsible for implementation of aspects related to dental nursing.
- A "staff member" means all persons that have their regular place of work at LCIAD as either an employee or self-employed clinician.
- All staff have self-assessed and continue to be assessed for their COVID-19 risk both at work and at home with instructions to report any changes in risk level.
- Between 26th May and 12th June 2020, the entire practice was spring cleaned and disinfected by LCIAD staff (with appropriate social distancing based on personal assessment of risk) from top to bottom including removal of all non-essential items, removal of all objects from drawers and cupboards and interior cleaning, servicing of all chairs and internal water lines by RPA Dental and disinfection and wiping of all surfaces inside and outside the surgeries.
- Replacement of suction motor HEPA (high efficiency particulate absorbing) filters in each surgery to filter exhaust air from dental suction units has been completed for 3rd June prior to opening.
- Air-conditioning units have been serviced in June 2020 prior to re-opening
- All dental chairs have been serviced by RPA Dental during first week of June 2020 and all water lines disinfected. Legionella testing which is also due as per routine practice protocols will continue to be carried out in accordance with <u>HTM 01-05</u>, <u>HTM 04-01 part 2 (2014)</u>, and <u>Approved Code of Practice (ACOP) L8 (2013)</u>.
- Staff meetings have been utilised to go over this document, provide collective feedback and brainstorming and agreed changes made to the updated version of this document.
- Orders for every item of new and replacement equipment and consumables required by new regulations after COVID-19 re-opening have been identified and ordered as early as possible in as much quantity as may be required to ensure continuity of supply and safety of all individuals at LCIADS after re-opening.

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4.1. RRR and SOP training and confirmation of understanding - role play and step by step staff training

It was important that all practice steps in this document were practiced before implementation. These steps were rigorously tested and revised by all staff prior to re-opening to ensure all processes run smoothly. This gave us important information as below:

- an idea of the practicalities of the recommendations
- a time-and-motion study of patient care and flow through the practice under the new recommendations
- required modifications to procedures to adapt to the recommendations
- ironing out issues in the protocols and finding solutions where issues present themselves.
- assessment of additional time and costs involved with additional procedures to build into the business plan of the practice to ensure viability
- refining and where possible simplifying the protocols as required
- seeking and obtaining qualified third-party advice where uncertainties in protocols remained after collective discussions with all staff.
- LCIAD has been in constant touch with team members via WhatsApp group during the entire lockdown period between 24th March and the last week of May. We have maintained morale with each other and ensured that everybody feels supported and has a forum to openly discuss concerns.
- Before the re-opening the team has been involved in open discussions as a group and in subgroups and all concerns and questions about re-opening have been addressed to our fullest ability.
- The clinical director and practice manager have acknowledged that there are concerns about returning to work and a myriad of unknowns and unknowables that we have had to try to systematically address over the last few weeks.
- The staff have been assured of the rationale for re-opening and all precautions that are being taken to maintain the safety of staff, patients and



indeed anyone that has day-to-day dealings with LCIAD as comprehensively as we are able.

- The option of continuing furlough until the government alert status is reduced has been given to those staff members that wish to take advantage of it and this has been taken up by at least one staff member to date.
- 4.2. Confirmation of standard infection control procedures (<u>HTM 01-05</u>) plus supplemental post-COVID-19 risk-reduction modifications
- All standard pre-COVID-19 infection control processes as outlined under <u>Health Technical Memorandum 01-05 (HTM 01-05): decontamination in</u> <u>primary care dental practices</u> will remain in force as before lockdown.
- LCIAD is also aware of and has incorporated aspects of "<u>COVID-19: infection</u> <u>prevention and control guidance</u>" for additional aspects and current guidelines over and above HTM 01-05.
- Our regular decontamination, cleaning and sterilisation procedures already have a proven track record of being effective at prevention of cross infection of previous respiratory and blood-borne viruses.
- These procedures, already second nature to our team, will continue to be used until superseded by any modifications that may come into force following the pandemic.

Zoning

The following zones will be set up by using yellow chevroned tape and blue standing signs in the practice:

- **Entry zone** up to metal bar of entry doormat and across entrance to waiting room large enough for property box to be placed. For deliveries, patient greeting, verbal update of medical history with standardised questions, temperature measurement, collection of patient property to place in plastic box, hand hygiene alcohol hand rub for 30 seconds, donning mask and gown and hat before entering the practice.
- **Doffing zones** 1m zones outside each surgery and sterilisation room with 4 new pedal bins for clinical waste collection after doffing (surgery 1 and 2 can share bin due to close proximity).

- **Patient waiting zones** away from doffing zones with table for masks and hand sanitiser:
 - Entrance to upstairs corridor 2 metres from stairs and opposite waiting room door for surgeries 1 and 2
 - Next to downstairs stock cupboard by fire extinguishers midway between downstairs bathroom and stairs for surgery 3
 - End of downstairs corridor near fire exit for surgery 4.

4.3. Hand and respiratory hygiene

- All persons entering and leaving LCIAD should thoroughly wash their hands in one of the surgery scrub sinks as soon as they arrive at the practice.
- Handwashing should follow standard pre-operative techniques used routinely before surgery to include forearms. All sinks will have step-by-step images of the ideal handwashing process and videos are available at <u>https://www.nhs.uk/live-well/healthy-body/best-way-to-wash-your-hands/</u>.
- Hands should be washed at every reasonable opportunity with antibacterial hand soap provided and especially at the following times:
 - Immediately before attending to patient treatment and donning personal protective equipment (PPE)
 - After any activity that may lead to hands becoming contaminated such as opening doors, receiving packages, typing on keyboards, before and after eating etc
 - After removal of PPE before leaving surgery
 - After equipment decontamination in the sterilisation room before leaving the sterilisation room
 - After handling and disposal of waste
 - At the start and end of every clinical session
 - Always after using the toilet facilities.
- Alcohol based hand rub should be used adjunctively for 30 seconds after each handwashing session allowing access to all of the same surfaces of the hands and wrists as during handwashing.
- Respiratory hygiene should follow the principle of "catch it, bin it, kill it". Tissues are available in all areas of the practice and should be used to sneeze or cough into when required. The tissue should then be immediately discarded into the nearest bin and hands and face washed and decontaminated as above.

 If you need to sneeze or cough, please make every effort to distance yourself from anyone in close proximity by at least 2 metres and turn away to direct the cough or sneeze onto a tissue and away from any individual. If no tissue is immediately available, please catch in the crook of your elbow and ensure that your skin or clothing covering this area is washed as soon as possible.

4.4. Staff clothing (non-clinical)

- All staff at LCIAD should refrain from wearing any jewellery in the form of rings, necklaces, earrings or piercings in the facial region. The only exception are small stud earrings to prevent closure of pierced ears and plain wedding bands which should be removed at the start of each day and kept safe in the staff member's locker after decontamination with alcohol hand gel disinfectant.
- The practice alarm panel should be covered in clingfilm by the last person to leave in the evenings (instructions extended to cleaning services) and the alarm activated through the clingfilm.
- The first person to arrive at and unlock the practice should turn off the alarm through the clingfilm and then remove the clingfilm and proceed directly to the nearest handwashing sink as soon as the alarm has been turned off but before touching any light switches. The clingfilm should be turned inside out and immediately disposed of in clinical waste in the new clinical waste pedal bin by the entrance door. Upon washing their hands and using alcohol hand rub, they should return to the alarm panel, decontaminate the surface with suitable alcohol wipes and close the alarm panel cover. They should only then turn on all lights and equipment / electricals in the practice as normal.
- The same person should unlock the staff room fire escape gate and staff room door and then LCIAD WhatsApp message the rest of the practice to say that the staff room entrance is open.
- All staff should subsequently enter via the downstairs basement staffroom entrance via the fire escape stairs from Wimpole Street to reduce street clothing exposure to the remainder of the practice. The quadrangle door should only be used if necessary and it must be closed and locked by each person using it to access the practice via the quadrangle. It must not be left open under any circumstances but closed behind you when entering or leaving the practice by this route.



- Staff should shower each morning and wear clean and ideally easily washable clothes to work each day and proceed directly to the staff room where they should wash their hands and faces as above after having removed any wedding ring and prior to changing into work scrubs.
- Hands should be dried on disposable paper towels in clinical and common areas or via Dyson Airblade hand dryers in the bathrooms. Tea towels from the kitchen or other non-disposable fabric items must not be used. If hands are thoroughly washed with the antibacterial soap provided in the bathrooms, we do not feel that the Dyson Airblade dryers pose a significant aerosol or droplet risk over and above that of paper hand towels and also help reduce potential fomites in the bathroom via used paper towels.
- All handbags and personal property must be placed directly into staff lockers upon arrival at the practice and not left on surfaces around the practice at any time. No outside personal property or outdoor clothing should be placed onto the staff room dining table or worktops or kitchen worktops at any time.
- Street clothes should be regarded as contaminated from exposure on public transport and stored folded in your personal lockers and not left in view or hung in the wardrobes. Lockers should be previously cleared of all nonessential items and decontaminated with surface disinfectant at the end of each clinical day after street clothes are re-donned prior to leaving the practice. Street clothes must not be worn anywhere in the practice other than the staff room and staff should change into LCIAD uniform scrubs immediately upon entering the practice and after washing hands at the nearest free sink.
- Shoes must be stored in the shoe lockers and not left anywhere else. Staff should change immediately from their street shoes into their new Crocs clinical footwear as soon as possible after entering the practice.
- Lunch should be brought in sealed Tupperware containers and left in the fridge after hands have been washed. Staff should try to limit exiting the practice for lunch or other activities as far as possible during the day to reduce risks of carrying infection in either direction.
- Mobile phones should be switched off completely and left in staff lockers provided with all other personal property and should only be used during break and lunch periods after having thoroughly washed and disinfected



hands. They must under no circumstances be brought into clinical areas at any time.

- Scrub uniforms or dedicated practice clothing should be worn by all staff including administrative staff during working hours. Further clinical PPE measures are outlined below. Scrub uniforms must never be worn outside the practice other than in the practice quadrangle and must not come into contact with street clothing.
- Scrub uniforms should be placed directly into the clinical laundry baskets in the staff room at the end of each day (or each session if soiled) and street clothes donned immediately prior to leaving the practice. Clinical scrubs should not be left anywhere but should either be worn or placed directly into the laundry basket when removed.
- If scrubs need to be removed to exit the practice during the day, they can be stored over lunch hour in the personalised washable bags provided which should also be laundered at the end of the clinical day.
- Used work scrubs should be put on the most suitable wash cycle for the fabric at the end of each working day or immediately at the start of the following day having been stored in the provided laundry bins overnight. Hands should be washed, and the washing machine surfaces wiped down with surface disinfectant after this process.
- Work shoes / clogs / Crocs should be sprayed with surface disinfectant or machine washed with scrubs if appropriate.
- Street clothes should be removed and washed as soon as you return home and a similar protocol to the practice adopted for handwashing and antimicrobial alcohol hand rubs when arriving home after work. All staff should ideally shower as soon as you return home.
- Avoid touching your face at all times when changing outside donning and removing mask, eye protection and visor PPE.

4.5. Practice risk assessment and updated checklists

• Updated practice risk assessments have been prepared by the practice manager and senior nurse. All staff should familiarise themselves with these documents during the staff training days.

All staff should complete and submit the <u>LCIAD team daily risk assessment</u> form **each morning before work**. This form need not be completed if the staff member previously been verified as having had COVID-19 and submitted their lab result documents via the <u>LCIAD team COVID-19 return to work</u> <u>declaration form</u> which should be completed prior to recommencing work at LCIAD on re-opening.

• All staff must continually risk assess their environment and take tactical measures to ensure safety depending on traffic and events throughout the practice.

4.6. Changes to non-clinical patient and common areas

- Non-clinical patient areas are defined as:
 - The practice entrance hallway
 - The ground floor corridor
 - The ground floor bathroom
 - The ground floor patient coordinator room
 - The staircase and downstairs basement landing and corridor
 - The downstairs basement bathroom.
- The common areas for LCIAD staff only are defined as
 - The downstairs basement office
 - The downstairs basement staffroom and laundry area
 - The downstairs basement vaults
 - the downstairs basement kitchen.
- The outside quadrangle beyond the kitchen is regarded as open air and outside LCIAD premises. It is the only permissible area where LCIAD scrub uniforms may be worn but no PPE should be worn in this area.
- No personal protective equipment that has been worn in the surgeries or decontamination and sterilisation room should be worn in the non-clinical patient and common areas or the outside quadrangle other than basic polycotton LCIAD uniform scrubs. The only area excepted from this rule are in the zoned areas marked by yellow tape immediately outside each surgery for the purposes of doffing PPE after procedures.



- All non-essential items should be removed from common areas and all desk clutter reduced to a minimum by storing little-used items in drawers or Really Useful Boxes in the vaults for the time being. These include:
 - Magazines, books and brochures
 - All paper / files / stationery
 - All objects and containers that can be stored in cupboards or drawers.
- All staff must endeavour at all times to keep all areas clean and tidy and consider where items are left and the risk that they may pose to cross infection protocols.
- Water coolers have been removed from the waiting room and replaced with bottled water kept in cool bags that can be requested from the receptionist. The empty water bottles should be disposed of in the normal or clinical bins or taken by the patient and should not left in common areas.
- No beverage facilities will be available for patients for the time being, with our apologies.
- The waiting room will ideally be used for the minimum amount of time, if at all

 patients should ideally be able to go directly to the dental surgery as soon
 as they arrive at the practice and be able to leave directly after their
 procedure. However, the waiting room will be available as a temporary
 waiting area if arrival or departure of patients happen to coincide despite
 staggered diary planning. There will be sufficient space for patients to remain
 at least 2 metres apart if more than one person needs to use the reception
 area, but it is unlikely that this will be required, and we will plan to avoid it.
- Information on COVID-19 and the protective and preventive measures we have adopted at LCIAD for the safety of all who attend LCIAD must be displayed. This document will be available on our website and sent to patients, staff and colleagues for information.
- Disposable tissues and waste bins as well as alcohol hand rub stations must be available in each non-clinical area including:
 - Entrance and reception
 - Entry and ground floor corridor
 - o Downstairs landing and corridor
 - o Both bathrooms
 - o Kitchen
 - o Staff room



- o Patient coordinator office
- Management office.
- New clinical pedal bins for doffing of PPE will be available outside each surgery and at the entrance to the practice and should be lined with clinical bin liners.
- An hourly rota for cleaning and disinfection of all communal areas has been devised and will be in force especially for often-touched areas such as door handles using proprietary surface cleaners. This is the responsibility of the runner / greeting nurse as below and a log will be kept of all cleaning times.

4.7. Changes to surgeries / operatories

- All clinical and disinfection and sterilisation areas are normally subject to sessional, daily, weekly and monthly hygiene routines. These will be reinstated as normal prior to surgery opening and continue with our normal high standards as per <u>HTM 01-05</u> procedures.
- All surgeries and operatories have been cleaned by:
 - o removal of all objects from inside cupboards and drawers
 - o discarding of all expired equipment and materials
 - surface disinfection of the insides of the cupboards and drawers and surfaces of all items
 - packing away of all non-essential or rarely-used items into lidded boxes which are stored within the vaults of the practice.
- All chair water lines have been fully run through and disinfected with hydrogen peroxide or <u>hypochlorous acid (HOCI)</u> solution as appropriate for the manufacturer. This will be repeated immediately prior to re-opening and as per our normal <u>HTM 01-05</u> procedures at the end of each patient treatment session. LCIAD has been using Sterilox HOCI solution for nearly 15 years in our dental chairs. We have ordered further equipment to increase production for use in disinfection of the whole practice.
- All non-essential items from worktops have been removed and placed into cupboards or drawers.
- 4.8. Changes to decontamination and sterilisation room

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- Similarly, to the operatories, the contents and interiors of all cupboards and drawers have been sorted, cleaned and disinfected in the same way.
- All ultrasonic baths, washer disinfectors, autoclaves, purified water and hypochlorous acid (HOCI) production machinery will be thoroughly cleaned, put through at least three test cycles and serviced where required to ensure that they are cleaned, disinfected and fit for purpose immediately before opening.

4.9. PPE definitions, aerosol-generating or non-aerosol-generating procedures (AGP and non-AGP), standard, FFP2 and FFP3 masks, fit testing of masks, staff PPE requirements, donning and removal of PPE training

PPE Definitions

- **PPE** is the acronym for **Personal Protective Equipment** and is defined as any item that is worn by a healthcare worker or indeed any person for the purposes of protecting the user against health and safety risks.
- In this context it includes additional precautions that may reduce the risk of cross infection of coronavirus, the causative agent of SARS COVID-19 to those normally used in primary dental care such as face masks or respirators, eye protection, visors and surgical gowns and hoods.
- The question of personal protective equipment is highly topical and also presents the greatest challenge for dental practices that plan to re-open due to a global level of demand which far outstrips supply especially for higher level protection. We regard personal protective equipment as the following:
 - Work scrubs made of high temperature washable polycotton as basic uniform within the practice for both clinical and, from 1st June, also nonclinical staff.
 - Suitable respirator (Respiratory Protective Equipment or RPE) matched to the risk level of the patient and the procedure. Certified fit tested by qualified fit tester where appropriate.
 - Respirators contain multiple layers of fine filters that not only physically trap tiny droplets and particles but are also electrostatically charged to attract particles to be caught within the mesh of the filters rather than allowing them to pass through unimpeded.
 - Respirators are classified as "filtering face piece" respiratory protective equipment (RPE) FFP1, FFP2 or FFP3 and can be valved or un-valved.
 - **FFP1** standard surgical face mask loop or tied. Protection against large solid particles or droplets with a minimum filter efficiency of 78%
 - FFP2 protection against solid and liquid aerosols with minimum filter efficiency of 92% to 95%
 - **FFP3** protection against solid and liquid potentially toxic aerosols with a minimum filter efficiency of 98% to 99% when fit-tested.
 - Valved versus non-valved
 - Valved masks protect the wearer from aerosol generated from the patient but allows exhalation of unfiltered air to escape through the valve. It is protective in one direction only by protecting the wearer

i.e. the healthcare worker from the patient. It makes wearing the mask more comfortable but does not prevent cross infection from the wearer to other people.

- Un-valved masks protect both the wearer and anyone close to them from aerosol by filtering inhaled and exhaled breath equally in both directions, i.e. both the healthcare worker and the patient are protected from each other. However, they are considerably more uncomfortable to wear especially for prolonged periods and in hotter environments.
- It should be noted that valved respirators are not fully fluid resistant unless they are also "shrouded" where the valve is covered by additional fabric to protect it from splatter or aerosol or is protected by a second standard surgical mask for the same purpose
- **Eye protection** against direct splatter and aerosol compatible with magnifying loupes and coaxial lights vital for the practice of fine dentistry
- Face visors to complement eye and facial protection from direct splatter and reduce aerosol and direct splatter contamination of eye protection and loupes
- Hair nets or surgical hoods to reduce aerosol and direct splatter contamination of hair and exposed forehead skin
- Disposable or washable water-resistant gowns to reduce aerosol and direct splatter contamination of working scrub suits and exposed forearm skin
- **Plastic aprons and heavy-duty gloves** during the decontamination and sterilisation processes outside the surgery.
- LCIAD is of the opinion that shoe covers do not add any further protection from a respiratory virus. It is unlikely that the presence of any particles that have settled to the floor are likely to be kicked up into an aerosol or droplet form after settling and shoe covers would also not prevent this.
- The action of placing shoe covers introduces additional risk of patients touching a potentially more contaminated part of their attire than they normally would (i.e. the soles of one's footwear) and may also increase the risk of losing balance, leading to slipping or falls for more elderly or infirm patients. It will also create a substantial amount of additional unjustified plastic waste. We have therefore not included foot covers in our PPE list after suitable risk assessment but will continue with normal established daily floor decontamination and disinfection routines to maintain a hygienic floor environment as far as possible in the practice.

Fit testing of respirators

- FFP2 and FFP3 respirators come in a variety of designs, shapes and sizes and consequently, in the UK, these need to be fit tested by law by a registered fit tester to ensure that they maintain a proper seal during normal movements for any given individual. All of our staff have been through fit testing prior to return to work by Dakatra Ltd in compliance with Health and Safety Executive guidance found here:
 - <u>https://www.hse.gov.uk/respiratory-protective-equipment/fit-testing-basics.htm</u>
 - o https://www.hse.gov.uk/pubns/indg479.htm

Important statement:

At the time of writing there is a global shortage of reputable, CE-marked and quality-checked FFP3 respirators. Recognised high standard FFP3 respirators by companies such as 3M or Uvex are simply unobtainable in adequate quantities to most small practices due to all reputable suppliers being out of stock until well into the autumn.

We have been repeatedly let down by even reputable companies who advertise presence of stock and a close delivery date, take an order, confirm a delivery date then fail to deliver whilst pushing back the next delivery date to October.

- We have also ordered as much varied PPE as possible including protective hoods with positive pressure airflow, visors, gowns, hoods and protective glasses of varying designs to allow for fitting across all body types in the practice. However, delivery dates are constantly changing. One item ordered on 14th May for 3rd June delivery has now been pushed back to 16th October.
- Governments, larger health organisations and large buying groups have tiedup most stock with bulk order purchases primarily for the National Health Service but to which the private dental sector in the UK has extremely limited access. Requests for contracts for supply of NHS stock to LCIAD have been turned down though we acknowledge some assistance in the shape of a handful of PPE3 masks for one procedure.
- A multitude of websites have sprung up selling FFP2 and FFP3 stock and our inboxes are filled daily with multiple advertisements. However, experience and substantial wasted money has shown that this stock is often not as



advertised, delivery dates are inaccurate, and the items once received have been shown not to be those ordered.

- We have therefore learned the hard way that great care is required to purchase these products from reputable and established providers within the dental, medical and protective workwear industries. It is no coincidence that all the reputable providers are having substantial problems procuring adequate stocks required by the dental and medical professions in this country. Therefore, newly established suppliers that claim to have large stocks of quality CE marked products which are often sold at substantial mark-ups should be approached with caution and with the expectation that the product advertised is not necessarily fit for purpose and may indeed in some cases never actually arrive.
- Whilst our regulators have indicated that dental practices can open with "suitable" or "appropriate" PPE in the form of respirators, they are fully aware that this will not be possible for the vast majority of both private and NHS dental practices who will require substantial stocks of consistent quality fit-tested FFP2 and FFP3 respirators that are simply not available.
- In the absence of availability of personal protective equipment, LCIAD will follow the guidance set out by Public Health England on <u>Considerations for</u> <u>acute personal protective equipment (PPE) shortages</u> updated on 21st May 2020 for the various items.

Fit testing for religious groups

 Until 2nd June, no guidance or advice had been received from any of our regulators regarding the impossibility of providing a positive fit-test on Sikh, Jewish and Muslim colleagues who have beards for religious reasons. However, the <u>British Dental Association Toolkit</u> published on 2nd June following consultation with the Sikh Dental Association has stated:

"Where, for cultural, religious or health reasons facial hair is present which will affect the seal of FFP2 / 3 masks, practices should consider as an alternative, the use of an FFP2 mask with a Type II fluid resistant surgical mask over the borders, in conjunction with a face shield / visor. A through risk assessment needs to be implemented at a local level if this suggestion is adopted.

Another alternative is the use of a **powered air purifying respirator (PAPR) hood**. This does not require any fit testing..."



- LCIAD has adopted both suggestions for colleagues with beards for religious reasons and has ordered masks and the APR hoods to cover all eventualities for all clinical staff to use as required.
- Many colleagues have been in a genuine quandary as to whether to close shave against their religious beliefs to comply with fit testing regulations in the UK. Such regulations are not required in Europe and there does not seem to be any evidence of increased infection rates as a result of this process not being carried out.
- However, it is required by law in the UK and our colleagues obviously want to do the correct thing, but this represents a substantial personal sacrifice when the role of FFP2 and FFP3 masks in the prevention of COVID-19 cross infection control have not been firmly established. In these cases, full face respirators may be advisable and required. However, these, too, are hard to procure.
- The Health and Safety Executive have stated that there are alternatives to fit tested FFP3 masks if there are religious reasons for the presence of facial hair but have not made any recommendations as to what these might be in their <u>Guidance on respiratory protective equipment (RPE) fit testing</u>. We understand via a personal communication that the Sikh Council has prompted the Health and Safety Executive for a detailed response to proposed alternatives.
- We confirm therefore that we have ordered six units of powered constant flow air purifying respirators with full hoods or helmets which do not require fit testing. We appreciate patients may find this protective equipment unusual when they first attend but ask them to bear with us so that we may maximise safety even if risks of transmission are already low.

Current recommended PPE for primary dental care

• The current Recommended Personal Protective Equipment for primary, outpatient, community and social care by setting, NHS and independent sector in the UK endorsed by Public Health England, The Academy of Medical Royal Colleges, Public Health Wales, Health Protection Scotland, Public Health Agency and the National Health Service is given in the table below (please click image for hyperlink to full PDF document).









Recommended PPE for primary, outpatient, community and social care by setting, NHS and independent sector

Setting	Context	Disposable Gloves	Disposable Plastic Apron	Disposable fluid-repellent coverall/gown	Surgical mask	Fluid-resistant (Type IIR) surgical mask	Filtering face piece respirator	Eye/face protection ¹
Any setting	Performing an aerosol generating procedure ² on a possible or confirmed case ³	✓single use ⁴	×	✓single use ⁴	×	×	✓single use ^₄	✓single use ^₄
Primary care, ambulatory care, and other non emergency outpatient and other clinical settings e.g. optometry, dental, maternity, mental health	Direct patient care – possible or confirmed case(s) $^{\!\!3}$ (within 2 metres)	✓single use ⁴	✓single use ^₄	×	×	 single or sessional use^{4,5} 	×	✓ single or sessional use ^{4,5}
	Working in reception/communal area with possible or confirmed case(s) ² and unable to maintain 2 metres social distance ⁶	×	×	×	×	 sessional use⁵ 	×	×
Individuals own home (current place of residence)	Direct care to any member of the household where any member of the household is a possible or confirmed case $^{\alpha, \gamma}$	✓single use ^₄	✓single use ^₄	×	×	 single or sessional use^{4,5} 	×	risk assess single or sessional use ^{4,5,8}
	Direct care or visit to any individuals in the extremely vulnerable group or where a member of the household is within the extremely vulnerable group undergoing shielding ⁹	✓ single use ⁴	✓single use ^₄	×	✓single use⁴	×	×	×
	Home birth where any member of the household is a possible or confirmed case ³⁷	✓single use ⁴	✓single use ^₄	✓ single use ⁴	×	✓ single or sessional use ^{4,5}	×	✓single or sessional use ^{4,5}
Community and social care, care home, mental health inpatients and other overnight care facilities e.g. learning disability, hospices, prison healthcare	Facility with possible or confirmed case(s)^ – and direct resident care (within 2 metres)	✓single use ^₄	✓single use ⁴	×	×	✓sessional use ⁵	×	risk assess sessional use ^{5.8}
Any setting	Collection of nasopharyngeal swab(s)	✓single use ⁴	single or sessional use ^{4,5}	×	×	single or sessional use ^{4,5}	×	single or sessional use4.5
Table 2	I foco vícor or popular.							
The list of aerosol generating procedures (AGPH) is in A case is any individual meeting case definition for a Single use refers to disposed OFPE or decontamination A single session refers to a period of time where a he Sessional use should always be refer alwassessed and on Non clinical staff should maintain 2m social distancing, Initial risk assessment should alse piaco by phone prior. Risk assesses	citaded in action 51. Bit was gout by Spentrum 1 (sublication who may not seeked in a confirmed and this taken spentrum 1. Sublication who on of insuelle terms as going protection or respirator, after each patient real that care worker is unchaining indices in a specific care setting-specare and maintered whom them are high reals of height cares. Feel Funda to delay the scare height includes the controlled distance is setting and and always be as an enclosed care activity distance in a spectra of the scare of the scare of the scare of the setting and the spectra of the scare of the scare of the scare of the scare of the scare is an enclosed care activity which of contemution with splatehear buckdown in the site and scare of the splates that the scare of the sca	uhan-novel-coronevirus-ini or following completion of a vironment e.g. on a ward ro sed of after each session of e risk assessed and consid e health or social care work or body fuids.	tal-investigation-of-possible a procedure, task, or sessio sund; providing ongoing can or earlier if damaged, solled, kered where there are high r er assesses that an individu	 cases/investigation-and-in in; dispose or decontaminat e for inpatients. A session er or uncomfortable. ates of community cases. al is symptomatic with susper 	itial-clinical-management- e reusable items after each nds when the health care of acted/confirmed cases app	of-possible-cases-of-wuhan n patient contact as per Star vorker leaves the care settin ropriate PPE should be put o	novel-coronavirus-wn-cov- ndard Infection Control Prec g/exposure environment.	autions (SICPs).

- It is our view that it is impossible to know without clinical testing whether any
 of our patients or indeed staff are infected with coronavirus. Whilst we will go
 through a screening procedure as detailed below for both staff and patients
 before they commence work and attend the practice, it is entirely possible
 that anyone can become infected with coronavirus on the way to the
 practice or in the 72 hours prior to attending after having completed their
 updated Medical And Dental Questionnaire.
- It is therefore our policy at LCIAD that all patients are treated as being possibly infected and all procedures regarded as aerosol generating, though to different degrees. This is supported by the recent <u>document by the British</u> <u>Association of Oral and Maxillofacial Surgeons.</u>
- This means that the following PPE will be used for <u>all</u> operative dentistry procedures:
 - Single-use disposable gloves with double gloving to make safe doffing of PPE easier at the end of each procedure
 - Single-use disposable fluid repellent coverall or gown (or high-temperature washable equivalent)

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- A filtering face piece respirator conforming to fit-tested FFP3 for all operative dentistry or FFP2 for the following procedures which we regard as lower risk though still not by any means completely aerosol and dropletfree:
 - dental consultations and examinations
 - removal of sutures
 - fitting of removable dental appliances such as whitening trays, occlusal deprogramming devices, fitting of orthodontic retainers and dentures.
- The following advice has been published on 4th June 2020 by the Office of the Chief Dental Officer of England and LCIAD will be following this policy:

All respirators should:

- o be well fitted, covering both nose and mouth
- be specifically fit-tested and fit-checked for the specific make and model of the respirator on all staff undertaking AGPs to ensure an adequate seal / fit according to the manufacturers' guidance
- be fit-checked (according to the manufacturers' guidance) by staff every time a respirator is donned to ensure an adequate seal has been achieved
- not be allowed to dangle around the neck of the wearer after or between each use
- o not be touched once donned
- be compatible with other facial protection used such as protective eyewear so that this does not interfere with the seal of the respiratory protection nor functionality of loupes or lights
- be disposed of and replaced if breathing becomes difficult, the respirator is damaged or distorted, the respirator becomes obviously contaminated by respiratory secretions or other body fluids, or if a proper face fit cannot be maintained
- be removed outside the dental surgery where AGPs have been generated in line with the doffing protocol
- be worn with a full-face visor if a non-fluid resistant respirator is used. (Noting that valved respirators are not fully fluid-resistant unless they are also 'shrouded'.)
- o cleaned according to manufacturer's instructions if re-usable.

FFP3 (filters 98% of airborne particles) respirators are advised for all AGPs to prevent inhalation of aerosols (FFP3 respirators offer a slightly higher level of protection than FFP2 respirators and advice aims to offer the greatest protection).



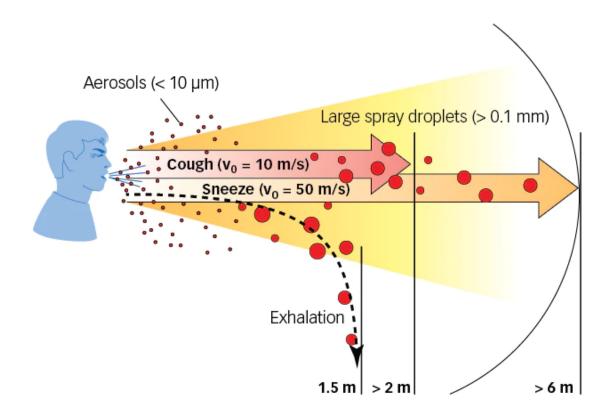
However, the Health and Safety Executive has stated that FFP2 and N95 respirators (filtering at least 94% and 95% of airborne particles respectively) offer protection against COVID-19 and so may be used if FFP3 respirators are not available. These respirators offer protection against AGPs, are recommended by the World Health Organization and are used routinely in other countries by dentists for AGPs. All respirators need to be fit tested and checked."

Aerosol-generating or non-aerosol-generating procedures (AGP and non-AGPs)

There has been much discussion about whether and which procedures generate aerosol and which procedures do not generate aerosol. This discussion has several facets that require some thought:

- **Droplet size**. Viruses are not transmitted on their own but normally within water droplets from the host carrying the virus. These droplets may be a spectrum of sizes, large and visible or tiny and invisible to the naked eye.
- The larger the particle, the more it behaves as a projectile a large droplet produced during a sneeze, for example, will be projected based on the force used to create it and gradually arc to the floor. The extent of this arc for exhalation is normally around 1.5 m. Hence the 2-metre social distancing rule to reduce the risk of these droplets landing on and being inhaled by another person which is called "airborne transmission".
- However, it can be seen from the diagram below that large spray droplets from a cough or a sneeze can extend to up to 6m whereas aerosols tend to be confined to less than 1.5 m through direct projection.

The London Centre for Implant and Aesthetic Dentistry



- These droplets can also land on objects and stay alive long enough to be picked up by touch and transferred via direct contact to the mucous membranes of the mouth, nose or eyes. This is so called "contact transmission".
- To reduce the risk of contact transmission, we are asked to sneeze into a tissue ("catch it, bin it, kill it") directed away from others and also told to wash and disinfect hands regularly in case we have touched a surface that harbours virus from a previous persons' droplets that can then be passed to the mouth or nose or eyes by touch.
- Coronavirus can survive for:
 - o 72 hours on plastic and stainless-steel surfaces
 - o 24 hours on cardboard surfaces
 - o 9 hours on copper surfaces
 - o 3 hours in suspended aerosols.
- Items that harbour and allow contact transmission are known as fomites a fomite may be any object on which the virus can live for long enough to be transmitted by contact transmission.

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- The presence of aerosol droplets on their own is not enough to cause infection. If it were, then the dental and medical literature would have far greater numbers of papers alluding to the possibility that dental practices are a high risk of cross infection through aerosol. Despite the *apparent* risk it is evident that dental surgeries are not in fact centres for disease transmission due to aerosol even with normal personal protective equipment use daily throughout dental practices around the world. It is critical to recognise this fact in the current climate.
- To transmit the virus requires a viral load and a suitable host whose immune system is not strong enough to fight this viral load. i.e. the number of virus particles within a droplet. It appears that patients with severe manifestations of COVID-19 can have up to 60 times the viral load on nasopharyngeal swabs than those patients with a mild form of disease (Verity R, Okell LC, Dorigatti I, et al. Estimates of the severity of coronavirus disease 2019: a model-based Published online March 2020. analysis. Lancet Infect Dis. 30, doi:10.1016/S1473-3099(20)30243-7). Therefore, it appears that asymptomatic patients may carry a lower viral load and contribute less of a viral load as aerosol than patients exhibiting overt symptoms.
- Viral load can be dramatically diminished by using either 5% peroxide or 0.5% or 1% povidone-iodine solution as a mouthwash, gargle and nasal spray prior to dental procedures. Either of these will reduce virus replication approximately 10,000-fold.
- Smaller particles produced by breathing and sneezing tend to stay suspended in the air for some time and can be inhaled or can land on objects further away that are then touched by another person. This is what is normally referred to as **aerosol**.
- Patients (and indeed staff) breathing, talking, coughing and sneezing produce droplets and aerosol in the form of many sizes of droplet. Therefore a "non-aerosol generating procedure" (non-AGP) procedure does not exist as far as we are concerned. Every individual produces droplets and aerosol. It is more a question of degree of exposure, how much viral load is introduced into the air directly by the patient's mouth or respiratory tract, the form of this viral load whether it is in droplet or aerosol form and time of exposure.
- It is assumed that aerosol produced during dental procedures is a vehicle for transmission of coronavirus and that creation of an aerosol will cause infection

or increase infection rates. This assumption is not necessarily true – it depends on where the aerosol comes from and what it is made up of and how many virus particles are contained within it. e.g. one cough-generated droplet may contain more virus that a large aerosol made up mainly of <u>hypochlorous acid</u> (<u>HOCI</u>) which is a virucidal solution used in dental chair lines and as a coolant during so-called dental aerosol-generating procedures (AGP's).

- It is assumed that the definition of a medical AGP is the same as a dental AGP. The aerosol composition differs considerably even amongst medical AGPs: for instance, certain medical AGPs such as anaesthetic intubation in theatre generate aerosols by inducing the patient to cough. It has been shown that coughing emits up to 1,000 times the number of droplets compared to normal breathing and intubation was a significant risk of SARS CoV-1 transmission to health care workers during the last coronavirus outbreak.
- Conversely, aerosol production via ventilation or nebuliser treatment did not increase transmission risk.
- Dental aerosols have been studied for many years. The tissues and fluids of the oral cavity contain many bacteria and viruses that are contained in the aerosol generated in everyday dental procedures. Indeed, we daily treat patients with undiagnosed potential tuberculosis, HIV, human papilloma virus, herpes virus hepatitis B, SARS COVID-1, influenza A (H1N1 and H3N2), common colds from rhinoviruses, respiratory syncytial virus, other coronaviruses, adenoviruses, Coxsackie viruses, Epstein Barr virus and many hundreds of bacterial species that live within the oral and pharyngeal cavities. However, presence of these microorganisms in aerosol is not in itself an indicator of infective capacity.
- Whilst there are multiple references that dental aerosol does contain microorganisms from the oral cavity, there is no evidence in the literature that general dental aerosol has resulted in the infection of dental healthcare workers or their patients in any centre or with any disease. Were dental aerosols a significant transmitter of airborne pathogens, this would surely have come to light. The paucity and almost lack of publications in the extensive dental and medical literature on the subject suggests that whilst it is theoretically a high risk activity, dental aerosol does not in fact appear to be a significant source of bacterial or viral cross infection when one considers the millions of aerosol producing dental procedures that are carried out every year in this country, let alone the rest of the world.



In summary, it is our professional opinion that the aerosol generated in dental practice through dental operative procedures is formed mainly of treated water containing potent virucidal components such as <u>hypochlorous acid</u> (HOCI) or other proprietary antibacterial and antiviral chemicals placed to protect dental water lines from bacterial and viral contamination. The aerosol produced from the patient's mouth during dental operative procedures is therefore substantially diluted and formed mainly of clean water with a virucidal activity and is not, in our opinion, from the paucity of evidence over many years, a major risk or source of cross infection of infective agents between patients and dental healthcare professionals.

The bacterial load carried by the aerosol created during dental procedures is also substantially reduced by preoperative mouth rinses, gargles and nasal sprays and the use of dental dam which is already part of our routine as seen below. Thus, we feel that the risk of transmission by dental aerosols in dental practices is the same or even less than the risk outside the surgery, despite the fact that bacteria and viruses are still detectable within these aerosols.

Staff Requirements

Despite the above viewpoint, it is in the interest of all our staff and patients and our profession that everyone attending LCIAD is kept as safe as possible with a belt and braces approach.

All staff at LCIAD are required to wear personal protective equipment depending on the environment in which they work and the procedures that they are expected to carry out.

This list is modified from our normal procedures and should be adopted upon reopening of LCIAD on 15th June as planned. It is based on the document <u>COVID-</u><u>19: guidance and standing operating procedure - Delay phase 18th May 2020</u>

All staff should comply with the recommendations under item 4.4 upon arrival at the practice.

 Back office staff – Practice manager, Zoe Harmer, and PA to the clinical director, Julia Marshall. These staff are unlikely to have direct contact with patients to the practice. Where they need to have direct contact with patients or third parties attending the practice then they should adopt the same protocols as front office staff below.



- LCIAD polycotton scrubs or similar machine washable practice attire to be worn only within the practice and laundered and pressed at LCIAD.
- Normal surgical face masks to be worn in common areas where social distancing is not possible, changed at least every 1½ hours. No mask is required if alone in a room or if social distancing is possible within the same room as a colleague.
- Front office staff receptionist, Roxanne Dellaway, and patient coordinator, Angela Thomson.
 - LCIAD polycotton scrubs or similar machine washable practice attire to be worn only within the practice and laundered and pressed at LCIAD.
 - Normal surgical face masks to be worn in common areas where social distancing is not possible, changed at least every 1½ hours. A mask is still required even if social distancing is possible within the same room as a or patient.
- **Runner / greeting nurse** this nurse will be responsible for greeting patients that arrive at the practice, going through patient arrival protocols and escorting the patient to the appropriate surgery directly upon arrival at the practice. This nurse will also be responsible for disinfecting common areas after passage of patients to and from the surgeries. This nurse should not enter operative areas and should be the only nurse wearing full protective gear in common areas. PPE may be removed and placed in a dedicated lidded container when there are likely to be extended periods of time between patient arrival and departure to the practice. This practice member will be responsible for providing enough time to re-don PPE in time for patient departure or patient arrival at the practice. Further details are listed under item 7 below.
 - LCIAD polycotton scrubs, protective water-resistant gown, FFP2 mask, visor, nitrile gloves, hair net, Crocs clinical footwear.
- Clinical staff including dental surgeons, hygienist/therapist and assisting dental nurses within the surgeries.
 - LCIAD polycotton scrubs, protective water-resistant gown, single use FFP2 or fitted FFP3 masks depending on procedure (see below), multiple use disinfectable safety goggles or spectacles (normal loupes for clinical operators), multiple use disinfectable or disposable visor, nitrile or latex single-use disposable gloves double-gloved, single use hairnet or surgeon hat depending on hair length and Crocs clinical footwear.

Donning and removal of PPE training for staff at LCIAD

As a clinic that regularly carries out surgical procedures, all our clinical staff are trained and proficient in sterile gown and draping as it is a daily activity within the practice. However, we acknowledge the requirements for additional checks and protocols in addition to our normal daily routine as below.

- All staff should rinse, gargle and nasal spray with 1% povidone iodine solution for 60 seconds prior to and at the end of each clinical procedure to reduce any potential viral load.
- Putting on and removing (donning and doffing) of personal protective equipment so that contaminated surfaces are contained within removed gloves, gowns, hoods and disposable visors immediately prior to disposal in clinical waste bags for incineration. Good hand hygiene before and after this process is already part and parcel of our daily work.
- However, additional training has also been received during fit testing of our FFP3 respirators to revise the procedure to ensure that contaminated surfaces are not allowed to come into contact with clean surfaces or be the source of cross infection following patient procedures.

We will be following the following guidelines:

NHS / Public Health England / Health and Safety Executive

- <u>Prepare and protect putting on (donning) and removing (doffing) personal</u> protective equipment (PPE)
- Putting on (donning) of PPE
- <u>Removal (doffing) of PPE</u>
- LCIAD has also arranged practical donning and doffing training using fluorescent dyes to highlight the risks of how aerosol is picked up and transmitted on personal protective equipment and to minimise any risks as far as possible.

4.10. Practice staff antibody testing

- All LCIAD staff members have been tested for IgG antibody at The Pathlab at 25 Welbeck St via the <u>Abbott test</u> prior to returning to work. The persistence of IgG antibodies > 1.4 allows identification of people who have been infected by SARS-CoV-2 and have therefore had COVID-19 disease. This test has 100% specificity and 98.5% sensitivity. At the time of writing, two clinicians Dr Geoffrey Pullen and Dr Isabella Rocchietta have shown positive anti-SARS-CoV-2 antibody tests and are therefore considered at negligible risk of infectivity or potential for infection. All other staff have been tested negative.
- Those that test positive are normally regarded as being immune to further infection by SARS-CoV-2 but it is not actually known yet if an individual with a positive result showing presence of IgG levels is protected fully or partially from future infection or for how long any such protective immunity may last.
- However, there does not seem to be any confirmed case of an individual who has tested positive for SARS-CoV-2 infection and having developed COVID-19 been re-infected with the same virus in any publications to date.
- If a member of staff is tested for past infection presents with IgG levels over 1.4, this means that they have recovered from COVID-19 and are no longer infected. No RNA particles indicating viral load are detected in patients that have recovered from COVID-19. This means that it will be possible for these members of staff to use more easily acquired FFP2 or valved FFP3 masks.
- Every staff member will be required to complete <u>a daily form</u> assessing their current COVID-19 risk prior to attending work each day.
- LCIAD would be pleased to refer any of our patients who would like to know their past infection status and would like to undergo this test to <u>The Pathlab</u> or <u>The Doctors Laboratory</u>.
- The Doctors Laboratory also offers <u>reverse transcriptase polymerase chain</u> <u>reaction test to detect active infection</u> for patients who feel that they may be at risk or actually infected with SARS-CoV-2. However, this should be arranged via your local GP or directly with the laboratory as there is a potentially very high level of infection risk and any person who feels they are at risk or actually infected should be self-isolating.

5. Pre-appointment booking / confirmation procedures for patients

- Upon re-opening, LCIAD will be responsible for prioritising patient attendances at LCIAD based on infection risk versus clinical need. We will prioritise patients who require urgent attention or who were undergoing current treatment phases abandoned after 23rd March and where further delay may result in significant deterioration of their dental condition.
- We would ask patients with non-urgent problems or requiring check-up appointments to please be patient and await appointments towards the end of the summer.
- The most effective way of reducing risk of cross infection between individuals attending LCIAD is to assess relative risks and recent past experience to ensure those attending LCIAD are low risk.
- All of our staff will be asked to complete a <u>COVID-19 return to work questionnaire</u> which will also confirm that they have read, understood and agree to abide by this LCIAD Standard Operating Procedure (SOP) and Risk Reduction Recommendations (RRR) dated 12th June as well as asking for their recent experience and exposure to potential infection.

5.1. Patient risk groups.

- The NHS has provided a list of patients who are at **high risk** (clinically extremely vulnerable) and at **moderate risk** (clinically vulnerable) of COVID-19 and potential sequelae. Please <u>refer to this list</u> to assess if you are at risk and try to defer your dental appointment until the end of the summer if your dental condition does not require immediate attention.
- For patients who are in one of these risk groups but still require urgent dental attention please do contact the practice and we will make arrangements to alleviate your emergency in the safest possible way.

5.2. Medical and Dental Questionnaire (MDQ) completion

 All patients to LCIAD are already asked to complete a comprehensive medical and dental questionnaire (MDQ). This MDQ must be updated every time the patient attends LCIAD. Our current system now allows the existing form data to be recalled and edited only where circumstances have changed rather than having to re-complete the entire form each time. We



know that this will be a relief for all our patients who hate filling in forms every time they attend.

- We have added a further section at the start of the MDQ regarding assessment of COVID-19 risk. <u>All patients who have not previously completed</u> <u>the new MDQ which came into force on 1st November 2019 will be asked to</u> <u>complete this form at least three working days prior to any appointment being</u> <u>confirmed. We must respectfully insist that this is carried out without fail.</u>
- Please note that we reserve the right to decline to book appointments or to postpone appointments if the fully completed MDQ is not returned in time or we feel that you are at high risk of having been exposed to coronavirus in the last 2 to 3 weeks.
- Our receptionist, Roxanne Dellaway, and our patient coordinator, Angela Thomson, will guide you through the questionnaire by telephone or Zoom meeting if you have difficulties.

5.3. Individual patient screening / risk assessment and prioritisation of patients

- Upon receipt of a patient's completed or updated MDQ, the clinician involved with their care will make an assessment of COVID-19 risk versus dental needs priority and advise reception and patient coordination as to the level of risk and urgency.
- Patients will be classed as high, medium or low COVID-19 risk or as already having been infected and recovered pending proof of documentation. A copy of such documentation should be emailed to <u>info@lciad.co.uk</u> for your records or uploaded via our <u>MDQ form</u> portal.
- Patients will then be classed as high, medium or low priority in terms of the requirement for their immediate dental care.
- The clinician will then make an assessment on the balance between these two risks to prioritise available appointments. For example, a low COVID-19 risk patient with a high dental priority will receive an appointment before a high COVID-19 risk patient with medium dental priority.
- Patients with high or medium COVID-19 risk will normally be asked to selfisolate and refrain from attending the practice for at least three weeks before



they are asked to update and resubmit their MDQ prior to requesting a new dental appointment.

- Patient bookings will be made based on a new staggered diary control system to reduce contact between patients arriving and leaving the practice and allow for longer periods between appointments.
- Where possible we will be seeing only one or maximum two patients per session per surgery for dental treatment or a maximum of three patients per session for dental hygiene and minimal aerosol generating procedures.

5.4. Patient communication / phone or video contact / patient consent

- The processes for patient communication, consultation, reporting and consent will continue as normal. Further information can be found on our website <u>www.lciad.co.uk</u>.
- It is likely that we will make more use of video consultations, especially to answer patient questions or go over treatment reports and phases of treatment which we would normally do face-to-face at the practice. Our patient coordinator, Angela Thomson, will arrange for Zoom or telephone meetings where required.

5.5. Diary management and changes to scheduling

The following changes will be introduced into the diary management system for LCIAD from 15th June which will be our first opening day after lockdown:

- The diaries for the four surgeries will commence with 15 minutes staggered start times at the beginning of the day to ensure that patients arriving for dental appointments can be greeted in isolation without other patients being present.
 - 8.45am Surgery 4 (hygienist and therapist) downstairs
 - o 9.00am Surgery 1 upstairs
 - o 9.15am Surgery 3 downstairs
 - o 9.30am Surgery 2 upstairs.
- All minimally aerosol generating procedures as listed below will have an additional 15-minute buffer period introduced after the appointment. This will cover the following procedures and there will be no charge for this additional 15 minutes of time:



- o dental consultations and examinations
- o removal of sutures
- fitting of removable dental appliances such as whitening trays, occlusal deprogramming devices, fitting of orthodontic retainers and dentures.
- All other procedures including hygiene visits and all operative dental procedures will have an additional 30 minute buffer period introduced after the appointment. No additional charge will be made for the 30 minute buffer period after hygiene appointments. However, operative appointments outside dental hygiene will automatically be extended by 30 minutes and a normal fee for this time will be charged i.e. a two-hour appointment will be extended to a 2 ½ hour appointment and charged at hourly rate for 2½ hours.
- This 30 minutes for obvious aerosol generating procedures is to allow settling
 of aerosol which will be assisted by introduction of <u>Woodpecker Q7 high
 pressure plasma air purifier units</u> into each surgery as well as the entrance hall
 / reception area and the decontamination and sterilisation room. These units
 will be left on around-the-clock to effectively remove aerosols and kill any
 bacteria and viruses within the aerosol using a very high voltage electrostatic
 field contained within the machine. They provide a numerical value on a
 clear display on the machine for air purity which will be monitored throughout
 the day.
- LCIAD is not increasing its normal hourly rate fees for the time being but will be faced with substantial time and additional PPE costs to accommodate post-COVID-19 changes for patient safety. We have calculated that this arrangement appears to be the fairest to ensure that we are able to make the required safety changes and still remain financially viable even though it will lead to a substantial reduction in available treatment time over the course of the next six months to one year. However, it is likely that unless procedures return to normal with the reduction of global COVID-19 cases over the next year, increases in fees will inevitably be necessary to compensate for the additional material costs and increased downtime required to maintain patient safety.

5.6. Appointment bookings and treatment slots

 LCIAD is already a practice whose protocols are based on efficient full mouth dental care. Rather than seeing multiple patients per day for short procedures, we tend to have longer half day or full day appointments to maximise efficiency and control of the cases we treat.

The London Centre for Implant and Aesthetic Dentistry

- Therefore, for patients requiring multiple procedures, we will strongly recommend that longer appointments to get multiple procedures completed as far as is possible be prioritised. This is not a great change from what we normally do.
- Our receptionist, Roxanne Dellaway, and patient coordinator, Angela Thomson, will inform you of the available treatment times required for your particular case and we would be most grateful if you could follow their lead and allow them to arrange your appointments as most appropriate for your case at the times they recommend. Your flexibility on this subject to allow LCIAD to maintain social distancing between patients and keep a tight control of diary times will be most appreciated.

5.7. Changes to payment methods

- LCIAD already works by a system where each treatment phase is paid in advance. This will not change and will continue as normal.
- Appointments that are normally paid at the front desk on the day of the appointment such as for hygiene visits, examination appointments and occasional treatment will need to be paid in advance when the appointment is booked and no later than three days prior to the appointment at the same time as submission of the completed or updated Medical and Dental Questionnaire (MDQ).
- We would be grateful for your cooperation in ensuring that all fees are paid in advance prior to attending for your appointment. This is to reduce the need for use of payment terminals and prolonged time spent at reception before or after your appointment.
- Please note that our normal <u>terms and conditions</u> continue to apply. You will be updated if there are any subsequent changes to LCIAD's current Terms and Conditions 2020a.

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6. Travelling to the practice

We should be most grateful to all our patients to consider the following points before coming for your appointment. Please note that all of these are measures taken to minimise the risks of transmission at LCIAD as far as possible. They are logical precautions and should not worry you unduly in their stringency.

6.1. Preparations by patients

Three days before your appointment:

- Please ensure that your <u>Medical and Dental Questionnaire (MDQ)</u> is completed at least three full working days prior to your appointment. If you have already completed our new MDQ introduced after 1st November 2019, you will be sent a link to your existing data for you to simply update any additional questions or changes and resubmit your existing data. Please be sure to indicate if you feel that you are at any risk of having been exposed to a patient with COVID-19 in the last three weeks.
- You will be invoiced for your visit prior to arrival. We should be grateful if you could pay the invoice for this visit at the same time as completing your medical and dental questionnaire.
- If you have not already done so, please try to procure a personal facemask that you can wear to the surgery on the day of your appointment.
- You will not be permitted to bring your mobile phone into the surgery on the day of your appointment. Please ensure that your diary is clear and that you will not be expecting any telephone calls or need to be contactable during your appointment time.

On the day of your appointment:

- Please let us know immediately on (020) 7323 3041 or via info@lciad.co.uk if you have developed any symptoms or have come into contact with anybody that may have COVID-19 in the 72 hours since completing your medical and dental questionnaire or if you feel in any way unwell.
- Please shower and wear clean, light and easily washable clothing that has not been worn elsewhere. We will recommend that this clothing is washed immediately after you get home.



- You should arrange to go directly home from the practice and not visit anyone.
- Please do not wear heavy make-up or jewellery. Small stud earrings and a wedding band are acceptable but please minimise all make-up and jewellery as much as possible.
- Please tie your hair back if you have long hair.
- Please ensure that you have thoroughly brushed your teeth as normal before attending and that your mouth is as clean as possible.
- Please minimise what you bring to the practice e.g. shopping bags.
- If you do not have one you will be provided with a complimentary disposable normal surgical mask when leaving the practice which you should wear until you reach home.
- Please be well hydrated but do not over-drink water or fluids. There will be complimentary bottled water at the practice for you as we have decommissioned our normal water cooler and removed it from the waiting room.
- Please visit the bathroom before you set out.

6.2. Transport

- We strongly recommend to patients and staff alike to reduce the risk of COVID-19 infection by avoiding public transport in Central London wherever possible. If you are obliged to use public transport, please find the best rated mask that you are able to get hold of and wear at all times from leaving home until arriving at the practice. Try to maintain social distancing of at least 2 metres at all times. We appreciate that this may not be easy or indeed possible.
- If possible, please drive to the practice in your own vehicle and park either at metered parking in Wimpole Street or nearby streets or at the Q Park on Cavendish Square. A map of nearby off-road car parks in W1 is available <u>here</u>.
- If it is not possible for you to drive in your own vehicle then please ask someone with whom you have been isolated to drive you and pick you up afterwards.



- If this is not possible then we would recommend taking a black cab or other cab company such as Addison Lee which has installed a Perspex shield or similar between the passenger and driver compartments. We would recommend booking the same driver to return home at the end of your appointment if possible, to reduce the number of people to whom you are exposed travelling to and from the practice.
- It is of course possible to cycle, walk or use an electric scooter or similar to arrive at the practice. A London cycle parking map is available <u>here</u>. Our staff will direct you as to where to go if you wish to leave your bicycle or electric scooter*. Unfortunately, we have very limited ability to accommodate bicycles at the practice though a single small foldaway bicycle or electric scooter may be left just inside the front door of the practice. Please inform us if this is how you will be arriving at the practice and we will be ready for you.

*Please be aware that electric scooters are currently illegal on UK roads according to the 1988 Road Traffic Act and on pavements according to the 1835 Highway Act for the time being. However, this may change in light of current circumstances and our staff and patients are asked to confirm the legality of this method of travel prior to attending LCIAD.

6.3. Accompanying patient escorts

- If you are being accompanied by an escort, partner or carer, please be aware that they will not be permitted to wait at the practice and should be prepared to drop you off at the door and return to accompany you at the end of your appointment time. Please inform our receptionist and patient coordinator if you will be arriving at the practice with an accompanying person.
- Children and pets should <u>under no circumstances</u> be brought to the practice and should be left with suitable carers. We regret that we are unable to accommodate or look after children or pets, especially in the current circumstances.

7. Upon arriving at the practice and patient traffic management

It is our objective that by staggering diary start times and allowing buffer time between appointments, we will minimise the chances of patients coming into close proximity with other patients at the practice and hopefully eliminate this altogether.

7.1 Procedures prior to entering the practice

We have started the following protocols for patients arriving at the practice:

- Please complete any telephone calls that you need to make before entering the practice and switch off your mobile phone and put it safely in your bag or pocket before you ring the practice bell. You will not be permitted to take your mobile phone into the surgery.
- We will ask you to remain outside the practice until it is time for your appointment. Please do not arrive too early but approximately five minutes before your appointment is due. If it is raining you will be able to stand under the front alcove away from the rain. Our reception will call you on your mobile when we are ready for you.
- After you ring the practice doorbell and are allowed in you will be met at the entrance by one of our meet-and-greet nurses. They will be in full PPE so please do not be surprised.

7.2 Procedures upon entering the practice and personal property

- Your temperature will be taken using a remote contactless temperature sensor. If your temperature is above 37.5°C over three consecutive attempts, you will not be permitted to enter the building and we will request that you rebook your appointment for at least three weeks later.
- You will be asked again verbally to confirm that there are no changes to your COVID-19 status since completing your medical and dental questionnaire three days before. If your temperature is below 37.5°C and you have not exhibited any of the symptoms associated with coronavirus infection in the last three days, you will be admitted for your appointment.
- (If you have an elevated temperature or have developed one or more of the COVID-19 symptoms on our medical and dental questionnaire (MDQ) we would strongly recommend that you self-isolate and inform those around you



that you may have COVID-19. Please let your GP know and click on the link here to initiate a <u>test and trace</u>.)

- You will be asked to put all your personal belongings including your switched off mobile phone into a disinfected, clear, lidded plastic box which will be stored safely in the cupboard at reception until the end of your appointment.
- If an escort is due to pick you up at the end of your appointment, please let reception know their mobile number and we will call them near to the end of your appointment for them to be ready to collect you.
- You will be given hand sanitiser to rub into your hands for at least 30 seconds.
- You will be given a clean disposable gown to wear over your street clothes together with a disposable surgical hat for your hair. You will also have the option of wearing nitrile gloves if you choose though this is optional. We have opted not to give foot covers for reasons stated earlier in this document.
- Our meet-and-greet nurse will accompany you to the dental surgery directly without stopping in the waiting room and hand you over to your dental surgeon and his or her nurse in the surgery.
- If you have chosen not to wear gloves, we will ask you to thoroughly wash your hands for 30 seconds with antibacterial soap provided using the hand washing guide above the scrub sink in each surgery.
- We will then ask you to use a 1% povidone iodine disinfectant solution as a mouthwash for 30 seconds, gargle for 30 seconds and then use as a nasal spray with the disposable spray attachment provided. (Please note that the iodine concentration used should not create any irritation or adverse effects. Allergy to iodine does not exist as it is a compound that is already found in the human body. We will check that you are not allergic to any of the other constituents of the product it.)
- You will then be ready to commence the normal dental appointment as arranged.
- Should you wish to visit the bathroom during your appointment, we will ask you to slip out of your gown and gloves and re-don the gown, re-disinfect your hands with alcohol gel and don new gloves when you return.

7.3 Procedures before leaving the practice

At the end of your appointment, we would like you to be able to leave the practice directly without having to visit reception.

- If someone is due to pick you up, we will give reception notice to call them in good time to be able to arrive at the practice towards the end of your appointment. They will not be permitted to enter the practice but should arrange to meet you outside the front door at the allotted time.
- The nurse in the surgery will guide you through removal of your hair net, gown and gloves as you exit the surgery and will collect them from you for disposal.
- You will be given a new clean surgical mask to wear home if you do not already have one.
- Your belongings can be collected from the plastic box which will be ready for you at the entrance to reception on your way out of the practice. This box will then be thoroughly disinfected ready for the next patient 30 minutes later.

7.4 Follow up contacts

- Reception will give you your usual TLC follow-up call either later the same day or the following day as we normally do after operative procedures.
- Where required, further appointments can then be arranged via telephone or email.
- Please note that the same process starting with the updating of your medical and dental questionnaire will repeat for your next appointment and all the steps above will apply for your next appointment as well.

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8 Dental surgery / operatory protocols

LCIAD already has strict dental surgery and operatory protocols as part of its day-today functioning. These will continue as normal.

However, in addition we will be introducing the following protocols whilst the Covid-19 pandemic is still at significant levels in the UK.

8.1 Aerosol generating procedures (AGPs)

- LCIAD would reiterate that we regard all patient contact generates some level of droplet or aerosol production.
- Our normal dental suction removes over 90% of aerosol generated during dental procedures. All dental suction motors will also be fitted with additional new HEPA (high-efficiency particulate absorbing) filters for exhaust air revented into the room.
- If patients and staff are at lower risk of exposure to SARS-CoV-2 based on preattendance questionnaires and maintenance of social distancing and selfmonitoring, we maintain that there is scant evidence to suggest that aerosol generated by dental instrumentation in any way increases the risk of viral transmission. The references given at the end of this Standard Operating Procedure document refer to potential risk of aerosol-borne infection from dental procedures but have documented no such confirmed case.
- However, to mitigate any potential risk we will have adopted at least FFP2 and wherever possible FFP3 fit tested non-valved respirators as well as face visors, hair nets and protective waterproof gowns plus eye protection as normal.
- It should be remembered that most of the aerosol produced by dental instrumentation will be virucidal and have a diluting effect on droplets and on any aerosol from the patient. This will include 10% hydrogen peroxide-based (H₂O₂) and <u>hypochlorous acid (HOCI)</u>-based solutions which are safe for ingestion but are potently virucidal.
- Air conditioning units will operate normally and have recently been serviced. There is no evidence to suggest that well-maintained air conditioning units harbour or transmit the virus. However, airborne transmission does seem to be



associated with areas of greater presence of particles in the air such as in polluted or smoggy atmosphere.

 Immediately after each operative procedure, the surgery will be vacated and the Woodpecker Q7 unit turned to its maximum setting. This will draw in and particle-purify and decontaminate the surgery air and kill any aerosolborne microorganisms with the door of the surgery closed for at least 20 minutes. We have called this the **aerosol settling and air purification period** (ASAPP). All airborne aerosol droplets should either then have hit the floor or been drawn through the Q7 purifier. Air purity readings on the front of the Q7 will be recorded throughout the day.

8.2 Operatory preparation protocols

Normal surgery preparation at the start of each day and at the end of each session will continue as normal as per our established protocols based on HTM 01-05 protocols and standard protocols for running through and disinfection of dental water lines.

- All non-essential items have been removed from the surgeries and placed into cupboards or into storage.
- All treatment is planned well in advance and any laboratory work that has been received from the laboratory will have been processed as under item 10 below.
- All items to be used for a procedure should be prepared in advance on the worktop to avoid having to open drawers or cupboards during operative procedures.
- A dedicated plastic box should be prepared just outside the clinical area on the worktop for immersion of all clinical instruments in enzyme cleaner with detergent to prevent drying out of soiled instruments at the end of a procedure. They can be left soaking during the aerosol settling and air purification period after each operative session.
- A long time ago in a galaxy far, far away... (this is just a test sentence to check whether people have read through the entire document if they do not spot this then they will be made to re-read it under supervision).

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- All computers and other equipment that cannot be removed should be covered with disinfected or disposable covers such as polythene / washable cotton cover for items such as the operating microscope and HIFU machine and disposable clingfilm for computers and photographic and video cameras.
- Small items stored in trays within the drawers such as suction tips, three and one tips, impression mixing nozzles etc will be covered over with sterilisable plastic sheets at the start of every session that will be sterilised at the end of every session to ensure that aerosol does not land into the drawers.
- The operatory nurse should not leave the surgery during treatment and should, similarly to the patient, be well hydrated and have visited the bathroom prior to donning PPE for that session.
- Nobody should enter the surgery where patient treatment is continuing without donning suitable PPE even if it is for only a very short period. Similarly, the PPE should be removed upon exiting the surgery. All nurses and clinicians should ensure they have everything they need and should not need to enter another surgery during a procedure.

8.3 Clinical protocols

Following a full clinical assessment, we have found very little to change in our normal clinical protocols. It is our opinion that differentiating between aerosol generating and non-aerosol generating procedures is not realistic and has no scientific basis when considering risk of cross infection. It is not realistic to re-open the dental practice and expect to be able to treat patients without generation of aerosol droplets in one form or another. This is therefore a relative risk that has to be faced when a dental practice is in operation.

However, the following points should be considered when treating patients:

- Rubber dam should be used for all restorative operative procedures as normal. This is already something that is carried out at LCIAD as routine.
- The spittoon tap should be turned on prior to patients rinsing to reduce the amount of droplet or aerosol deflected from the spittoon. The number of times a patient needs to rinse should be minimised to reduce droplets and splatter. We do not feel it is realistic to stop patients rinsing entirely but they should be made aware of the need to minimise this activity.



- High-volume suction with or without additional saliva ejector should be used for all procedures including use of piezon.
- Water flow to the piezon and handpieces <u>should not be reduced</u> in an attempt to reduce aerosol. This would have the following effects:
 - reduction in virucidal and bactericidal dilution
 - greater tendency for overheating and therefore patient discomfort or even pulpal damage when drilling
 - reduction in efficiency of cleaning or drilling which prolongs the procedure and therefore the exposure time.

It is therefore advised that coolant water is turned up to its full extent as we normally do.

• Excellent airway protection to reduce the chances of patients coughing or sneezing during the procedure should be ensured as always.

9 Post-treatment protocols, decontamination and sterilisation

- As soon as the patient has completed treatment, they should rinse again with 1% povidone iodine solution whilst in the surgery. The assisting nurse should guide the patient through how to doff their PPE at the exit to the surgery and ask them to go directly to the nearest bathroom to wash and disinfect their hands. The patient's PPE should be gathered from the outside in by the assisting nurse and placed into the clinical waste bin in the surgery.
- The assisting nurse should maintain all their current PPE and remain in the surgery for the moment but socially distant from the patient once the patient's PPE has been removed.
- The dental surgeon should remove their outer gloves only remembering that the remainder of their PPE remains contaminated.
- The patient should leave the surgery directly to the bathroom to wash their hands. They should then be asked to move onto the blue sign on the floor of the corridor next to the mask and hand sanitiser station (this is 2 metres away from the doffing zone marked outside the surgery), wearing only their normal street clothes and asked to wait. The runner / greeting nurse should direct them to disinfect their hands and don a standard loop or tie mask straight



away and ensure that the patient positions it so that it covers the mouth and nose.

- The dental surgeon should exit the surgery closing the door behind him or her, stand in the marked zone outside each surgery and immediately doff all personal protective equipment into the clinical waste pedal bin that will be positioned outside each surgery door.
- The clinician should then also wash their hands in the nearest bathroom to their surgery, carry out a 60 second mouth rinse, gargle and nasal spray with 1% povidone iodine, ensure the bathroom is left clean, tidy and wiped down, wash and dry hands again.
- The patient should then be asked by the greeting nurse to move towards reception. The dental surgeon should then move to the blue circle next to the donning station and disinfect hands and then immediately don a standard surgical mask in order to escort the patient towards reception whilst maintaining a social distance of 2 metres.
- At reception, the receptionist should prepare the patient's personal belongings box and open the lid and step back so that they are 2 metres away.
- The patient can then remove their personal belongings from the box and put them on in the doormat area of the entrance hall beyond the metal bar. They are then free to leave the practice and should be guided out maintaining social distancing with a smile and cheery goodbye acknowledging with some humour the slight absurdity (but still serious necessity) of all these precautionary measures.
- The runner / greeting nurse should then wipe down the exit door handle inside and outside the front door. The wipes and disposable gloves should be immediately disposed in clinical waste.
- In the meantime, in the surgery, the surgery nurse should immerse any soiled instruments in their respective cassettes into the plastic box with enzyme cleaner and detergent for the aerosol settling period and then also remove her outer gloves.
- She should turn the Q7 level up to maximum before leaving the surgery and closing the door behind her. (Alternatively, turning up the Q7 level to

maximum can be done at the start of the procedure if the surgery occupants do not mind the additional fan noise produced by the Q7 working at a higher level during the procedure.) This should in theory reduce the length of time required to process the air in the room at the end of the session.

- An **aerosol settling and air purification period (ASAPP)** of at least 20 minutes with the Q7 working at maximum (10 minutes for "non-AGP" procedures) should then be allowed with the surgery door closed whilst the assisting nurse has a break outside the surgery or carries out any duties in the sterilising room.
- The dental nurse should then also carry out the same doffing / iodine rinse and mask donning procedure as the clinician on leaving the surgery.
- The runner / greeting nurse should place a "no entry" sign on the door to indicate that this is now a no entry zone and a clock with a 20-minute alarm set on the door to indicate how much time has elapsed (10 minutes for minimal AGP procedures). It should be remembered that these 20 minutes are in addition to any time elapsed from the last aerosol generating dental activity ceasing during the treatment session, when aerosol and particle settling will have already started.
- The runner / greeting nurse and the assistant nurse are responsible for ensuring that bathroom facilities are fully disinfected after each use.
- The dental surgeon should then use this time to write up contemporaneous notes, write up lab dockets, check emails, optimise, name and tag photographs from the previous session or day and carry out all the administrative tasks required by standard LCIAD protocols. This is still regarded as an integral part of the patient's appointment.
- After each treatment session, the surgery nurse will then prepare to re-enter the operatory 10 minutes before the next patient is due. She will don new PPE plus plastic apron and heavy duty gloves and wipe down all surfaces using regular proprietary antimicrobial cleaning solution (as defined below under "Sterilising room procedure" section) and wipes, changing and replenishing as required, starting at high level and working downwards to include the following in order.
 - All clinical items to be decontaminated and sterilised to be placed into a lidded lockable box (Really Useful box) normally stored in the sterilisation room and brought to the surgery by the runner / greeting nurse at the end of the session.



- Any small items or material containers or equipment to be put away at the end of the procedure (e.g. Implant motor, endodontic motor, dental loupes etc) removing all clingfilm on items such as computers and cameras with the contaminated surface being collected inwards and the clingfilm discarded into clinical waste
- Light, camera and light arm on the dental chair
- Dental chair bracket table and arm
- Handpiece motors and cabling
- Nurses station and spittoon
- o Dental chair and base and foot pedals
- Clinician and dental nurse tools
- Wall cabinet façades and handles, work surfaces and base cabinet façades and handles
- Wall mounted x-ray
- Alcohol and soap dispensers
- Paper towel dispenser
- Sharps bin surface taking care that no sharps project out of the bin
- Computers and mice ensuring no excess fluid gets under the keys onto the screen and PC speakers
- Trios scanner
- Taps and hand wash basins
- Light switches and x-ray machine switches
- Door handle (inside and on other side of door facing outwards)
- Floor.
- Discard all cleaning items and solutions as clinical waste.
- Doff all PPE at the end of the cleaning session into clinical waste.
- Carry out full hand hygiene prior to the next procedure.
- Plug-in clinical camera to upload photographs from the surgery to the clinician's folder.

We are currently researching the relative benefits of additional hypochlorous foggers to mist each room with a potentially various idle hypochlorous acid fog. However, these machines are currently awaiting arrival for mid-June and may be added to the protocol when they arrive as an additional measure.

Sterilising room procedure

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No changes should be required to normal HTM 01-05 protocols apart from the following considerations.

- All non-essential small items in the decontamination and sterilisation room should be removed from the work surfaces and placed into cupboards or drawers wherever possible.
- A Woodpecker Q7 high-pressure plasma air purifier unit will be positioned in the sterilising room and should be left on a medium setting throughout the day to purify any aerosol that is produced by disinfectant and sterilisation machinery within the sterilising room.
- The disinfected outside of the instrument container brought from the sterilisation room to the surgery by the runner / greeting nurse should be regarded as clean and held by the runner / greeting nurse just at the door to the surgery.
- The assisting nurse who has just finished the procedure should place all instruments to be sterilised directly into the box taking care not to allow contamination of the outside of the box.
- The runner / greeting nurse should then place the box onto the floor and replace and lock the lid and transport the box of contaminated instruments to the sterilising room whereupon normal decontamination and sterilisation processing should continue as normal.
- The sterilising room nurse should don normal decontamination and sterilising room PPE in the absence of any droplet or aerosol within the sterilising room, including standard mask, eye protection, hair net, plastic apron and thick protective gloves.
- Special care should be taken not to allow splatter when emptying the box. Instruments should ideally be placed directly into the ultrasonic bath or washer disinfector as appropriate without being sprayed with water in any way which may cause spread or droplet formation.
- Lids must always be maintained on all ultrasonic baths to prevent aerosol.
- All nurses must make doubly sure to doff all PPE in accordance with instructions above and go through full hand hygiene in the doffing zone outside each decontamination / sterilising room.



- All these moments will be lost, in time, like tears in rain. (This is a second test sentence to check whether people have read through the entire document - if they do not spot this as well, then they will be made to re-read it under supervision.)
- At the end of each session the sterilising room should be cleaned in the same fashion as the dental surgery.
- The Q7 units present in surgeries 1, 2, 3 and 4, the sterilising room and the entrance hallway / reception should be wiped down at the end of each session and the interior filters cleaned as per manufacturer's instructions as required by the coloured light indicator on the unit turning red.
- Decontamination of equipment and the care environment must be performed using either:
 - a combined detergent / disinfectant solution at a dilution of 1,000 parts per million available chlorine (ppm av.Cl.) or
 - a general-purpose neutral detergent in a solution of warm water followed by a disinfectant solution of 1,000ppm av.Cl.
- All disinfectants should conform to EN standard 144476 for virucidal activity.

10 Laboratory protocols

Outgoing work

Until now, outgoing dental laboratory work has been placed into decontamination baths in each surgery before being bagged, packaged and boxed and given to the receptionist to send to the laboratory.

The reason for carrying out things in the surgery was to ensure delicate items were not damaged or lost in the sterilising room.

Processing impressions and work due to go to the lab in each surgery is still preferable but the protocol will need to change slightly to take into account the fact the surgery will be vacated for 20 minutes at the end of each operative procedure.

The only issue is for alginates which cannot be left for 20 minutes exposed nor immersed. The protocol should therefore be:

- All laboratory work due to go to the laboratory should be placed on and covered by a disposable bib/surface cover for the duration of the aerosol settling and air purification period (ASAPP). Alginate should not be used and instead substituted with Xantasil.
- The laboratory work should be left away from direct sunlight so that any beauty • wax records are not warped.
- The nurse entering the room with clean PPE to decontaminate the room after the • ASAPP should then immerse laboratory work into the decontamination solution for the 10 minutes it takes to wipe down the surgery. A timer should be set as normal (timers should be stored within a cupboard rather than on the side).
- Laboratory work can then be rinsed, dried, wrapped and boxed normally using new gloves and bags with the boxes stored away from aerosol within the cupboards after surgery decontamination has been completed.
- A sticker to indicate decontamination of contents has been completed should be stuck to the packaging.

Incoming work



• Standard procedures apply for incoming work which is steam cleaned and disinfected in the laboratory and then re-disinfected prior to fitting in the clinical environment. No changes to protocols are required other than those for packages being received as below under item 11.

11 Changes for cleaning / waste disposal and third-party contractors

Cleaning services

- Cleaning services should continue as normal. A minimum of one hour should elapse between the last patient being completed and the cleaner attending the practice to allow for ASAPP after all staff have left the practice.
- All clinical areas down to floor level will have been decontaminated by the assisting nurse in the surgeries.
- The colour-coded mops for clinical and non-clinical areas will remain and the efficacy of the floor cleaning solutions in being virucidal should be verified.
- Cleaning staff should be trained to be knowledgeable about the virus and wear FFP2 masks while wiping the floors and carrying out cleaning of the common areas against any droplets or aerosol re-animated by the cleaning process.
- They should be trained to minimise droplet and splatter when mopping clinical areas to reduce the risk of viable viral droplets being re-distributed around the surgery.

11.1 Handling of packages to the practice

- Delivery men including the postman should not enter the practice but leave all items just inside the front door on the main mat. The outside of the door, the door buzzer and grille should always be regarded as contaminated and outside the practice.
- It should be remembered that coronavirus can survive for up to a day on cardboard and paper and therefore all packaging coming to the practice should be regarded as being potentially contaminated.
- The runner / greeting nurse should undertake opening of all letters and boxes whilst wearing an FFP2 mask, protective gown and gloves as well as eye protection. When the boxes are opened the contents should be removed by a second nurse also wearing PPE and with alcohol wipes to disinfect or items that can be wiped down.
- Paper or cardboard boxed items that cannot be wiped down without causing damp damage to the box or wiping of surface ink due to the

alcohol content should be transferred to a decontaminated really useful box and left for at least 24 hours for the virus to die before the items are removed from the box and distributed to their storage places in the practice.

- I made him an offer he couldn't refuse. (This is the third and final test sentence to check whether people have read through the entire document
 - if they do not spot this as well, then they will be made to re-read it under supervision.)
- The runner / greeting nurse who first opened the delivery boxes or envelopes should place them into a recycling bag. The bag should then be sealed, the outside surface sprayed with hypochlorous vapour or alcohol wiped at the end of each day and left for the cleaner to dispose of.

11.2 Information pack for third-party contractors attending the practice

• A copy of this standard operating procedure and risk reduction recommendations document will be available on the website under our cover page and can be forwarded to any third-party contractors or delivery companies to LCIAD.

11.3 Feedback mechanism for third party contractors

• Any third-party contractor concerns or comments should be directed to the Practice Manager, Zoe Harmer, at <u>zoe.harmer@lciad.co.uk</u>. We will endeavour to respond to them within 24 hours.

12 References

Regulatory and government references

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Considerations for acute personal protective equipment (PPE) shortages	https://www.gov.uk/government/publications/wuh an-novel-coronavirus-infection-prevention-and- control/managing-shortages-in-personal- protective-equipment-ppe
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Control of legionella bacteria in water systems British Standards Institute - new PPE (personal	https://www.hse.gov.uk/pubns/priced/ck02.pdf https://www.bsigroup.com/en-GB/our-
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Position papers and key opinion leaders

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2. <u>British Association of Private Dentistry (BAPD) – Return to practice position paper 11th May 2020</u>

Cochrane Oral Health: <u>Recommendations for the re-opening of dental services: rapid review of international sources - Covid-19 dental services evidence review (CoDER) working group 6th May 2020
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With special thanks and with respect to all friends and colleagues who have freely and helpfully shared their views, experiences, documents, morale and humour throughout the lockdown.

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