More important than ever: Fire safety in dental practice

By Stuart Collyer, UK

Being a dentist, you will be familiar with the need to carry out regular checks on your patients to spot potential problems before they become major ones. This preventative approach should be applied to your fire safety procedures and equipment too. Just like any other business, complying with fire safety regulations, like the Regulatory Reform (Fire Safety) Order 2005 here in the UK, is an obligation. By carrying out a fire risk assessment, you can secure the longevity of your business by reducing the likelihood of a fire starting, as well as preparing for the worst.

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Fire prevention is far easier than trying to recover from a fire. (Photograph: Wisawa222/Shutterstock)

The five stages of a fire risk assessment

By completing a fire risk assessment, you will gain a full understanding of your business in terms of the activities that are carried out and the risks present. By going through the five steps, you will have made your dental surgery safer and compliant.

Step 1: Identify all potential combustibles and possible sources of ignition

As one might expect, but failing to do so comes with the risk of a large fine and even a prison sentence.

The next step is to consider the people who are at greatest risk from fire. This is therefore important to take particular care in their use and storage.

Identify those at risk

The next step is to consider the people who potentially could be present on your premises at the time of a fire. Of course, this includes staff and patients, but also take into consideration agency staff, contractors and other visitors to your practice. There may be particular individuals who would need assistance in making a swift escape in an emergency. Those with mobility issues, such as the elderly and disabled, are particularly at risk, as are children. Think specifically about the best way of getting those people safely down any stairs. You may find that an evacuation chair is vital, as is training staff in how to use such equipment.

Evaluate and act

Having now identified all of the potential problems and hazards that are present in your dental surgery, you can now take the relevant action to take precautions to reduce those risks as far as practically possible. The most reliable solution is installing fire detectors throughout the building and using smoke and heat detectors, along with call points, as part of a fire alarm system. When the alarm sounds, fire exit signs will direct people to safety while emergency lighting illuminates that route to keep people safe, no matter what.

Having the correct fire extinguishing equipment installed throughout the premises is one of the best ways you can prepare. Fire blankets in the kitchen area will help tackle small fires with little mess or hassle, while fire extinguishers are best in waiting rooms, corridors, offices and treatment rooms. Water extinguishers are suitable for general fires, including paper, cardboard, rubbish and furnishings, whereas foam extinguishers can be used for flammable liquids. Powder extinguishers are versatile, lighter and safe to use around electrical equipment and flammable liquid and gas. However, they can affect visibility and breathing, so should be mitigated by a health and safety risk assessment.

Dental practice fire hazards

For a fire to burn, it needs heat, fuel and oxygen. With one or more of those elements removed, a fire is instantly less likely to break out. Therefore, you need to identify those items that can burn and the potential sources of a fire and keep them separated. Possible sources that can cause a fire are radiographic and other electrical equipment when they overheat, are misused or are faulty. This can be avoided with regular inspection and servicing by professionals. Heaters, cooking equipment and smoking equipment too. Just like any other business, complying with fire safety regulations, like the Regulatory Reform (Fire Safety) Order 2005 falls to the owner of the dental practice. He or she can either carry out the fire risk assessment himself or herself or ask a competent individual to assess. Many business owners choose to hire professional risk assessors to complete it on their behalf. They not only saves them time and effort, but also gives them the peace of mind that it has been done correctly and that no risks have been overlooked.

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Step 1: Identify all potential combustibles and possible sources of ignition

Step 2: Consider all the relevant people who are at greatest risk from fire.

Step 3: Remove or reduce the risks of fire as far as possible and take precautions.

Step 4: Prepare for an emergency with fire safety equipment, by providing correct training and by having a plan of which everyone is aware.

Step 5: Record any findings and regularly review the assessment to keep it up to date.

The risk assessment should be recorded at all stages, including the actions you have taken along the way. If you hire five or more members of staff, it is a requirement to have written proof that you have fulfilled your duty as a responsible business owner.

The ultimate responsibility for complying with the Regulatory Reform (Fire Safety) Order 2005 falls to the owner of the dental practice. He or she can either carry out the fire risk assessment himself or herself or ask a competent individual to assist. Many business owners choose to hire professional risk assessors to complete it on their behalf. They not only save time and effort, but also gives them the peace of mind that it has been done correctly and that no risks have been overlooked.
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“Good design will pay off”
An interview with Drs Mona Patel and Marcus Riedl

Just as in dentistry in general, where aesthetic aspects are becoming ever more important, dentists today are pursuing intentional design of their dental practices. With the launch of four new design lines, Dentsply Sirona Treatment Centers presents dentists with the opportunity to enhance workflows and treatment efficacy through clever and cutting-edge solutions while conveying their individual style. Dental Tribune spoke with German dentist Dr Marcus Riedl and Dr Mona Patel from the US, both of whom have ensured careful design of their practice environment based on their needs and preferences with a Dentsply Sirona line, about the role of aesthetics in daily dental practice.

Dental Tribune: Design can convey emotions and distinguish a dental practice from others. In your opinion, what relevance does design have in this regard?

Dr Mona Patel: In the US market, it has not played an important role for a long time. Now, with the newer generation of dentists, design is increasingly significant. I think it is just as important as the type of equipment that one purchases or the insurance one carries, because image is everything. In my opinion, the design of the practice is a direct reflection of how one provides care as a dentist. This correlation was not present in previous generations, but it is now.

Dr Marcus Riedl: I can speak for Germany and I think design aspects were mostly neglected in the past. Now, the influence of design in our practices is increasing. One has to consider that we spend almost half of our lives in our practice, so we should feel comfortable. For example, I love the mountains, skiing and the atmosphere of the Alps. Incorporating this love for nature into the design of my practice gives me a holiday feel at work.

When deciding on a particular design or the overall look of your practice, what did you put special emphasis on?

Patel: Dental anxiety is a huge component of what we have to manage, so we need to create an environment that first and foremost has a calming, spa-like feel and reduces our patients’ anxiety when they walk through the door. Secondly, in my practice, I wanted the design to be evidently smart, because that reflects my meticulous personality. I equipped the whole office with Dentsply Sirona products—in fact, it was the first all-Dentsply Sirona office in the US. I wanted to showcase the high tech equipment and design a nice, simple office around that—not to compete with the equipment, but to enhance it.

Riedl: For many of our patients, the design aspect is just an outer shell, since they come to us for the content. When they come into the office, they do not see any units at first. As for dental phobia, in my opinion, reducing anxiety mainly is the responsibility of the staff. However, a calming atmosphere is a great support, of course.

Patel: In health care, whole-body awareness and preventative health are becoming ever more important. A practice today is not just about treating tooth pain, but about establishing a dental home, creating a place where patients can establish a relationship with their dentist and their hygiene team.

Dentsply Sirona has developed four different design worlds: Embellished Elegance, Cheerful Patterns, Honest Materials and Pure Shapes. Which one did you decide on and why?

Patel: We chose Honest Materials because our practice has all this enhanced digital technology, which can be intimidating. I wanted to balance this digital aspect of our practice with natural and organic materials. We have a lot of birch and wood—clean, sleek, simple and balanced materials that hopefully move the focus from the equipment. My design in general is very monochromatic, nothing too messy or cluttered.

Riedl: We too chose Honest Materials but we wanted to bring in elements from the environment I love—mountains and skiing. We used wood and birch for a holiday feel at work.

By DtI
sets the unit apart from those you have used before?

Riedl: As a dentist, I have always worked with Sirona, now Dentsply Sirona. Therefore, there was no question of the brand I would choose. In our previous office, we used the M1 for almost 30 years—I, of course, used it only for about ten years—and I did not want to change my habits and movements during treatment. Comparing the M1 with the Teneo is like comparing an old Mercedes-Benz with a new one. It is the same quality. The Teneo might be not as solid as the good old M1, but has more features that are useful.

Patel: I was designing a new office, so I had a clean slate to work with. I did a great deal of research and comparisons. For me, the look and the design were important, as were functionality, integration, longevity and being able to sanitise it easily. I was instantly drawn to Teneo, because, as I said, I do not like clutter. The fact that everything was integrated was an instant attraction to me. I found solutions to all my wishes in the Teneo. It was an easy decision to make and we designed the office around the units.

Thank you very much for the interview.

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