



S4S
Dental Laboratory

AN AWARD-WINNING DENTAL LABORATORY, FOCUSING ON:

**SNORING,
SLEEP APNOEA,
BRUXISM &
ORTHODONTICS**



Welcome

As an established dental laboratory that provides dental splint technology and orthodontic solutions for over 11,000 clients, we invite you to discover how we can help you achieve the very best for your patients, whilst increasing the potential of your private treatment income.

Whether an existing client of ours or new to S4S, we would love for you to visit us and our award-winning team at our laboratory in Sheffield.

Partner with us and let us show you the benefits that we can bring.

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We provide a range of dental appliances for the treatment of:

SNORING, SLEEP APNOEA, BRUXISM & ORTHODONTICS



ABOUT US

Our journey started in 2005, where our founders drew on a clinical background and launched S4S - originally known as Solutions for Snoring.

Since then, we have established ourselves as an award-winning dental laboratory, providing dental splint technology and orthodontic solutions to over 11,000 clients in the UK and worldwide.

Based in Sheffield, but delivering a first-class postal service, our comprehensive range includes exclusive products that provide life-changing benefits for patients - far greater than many would believe possible.

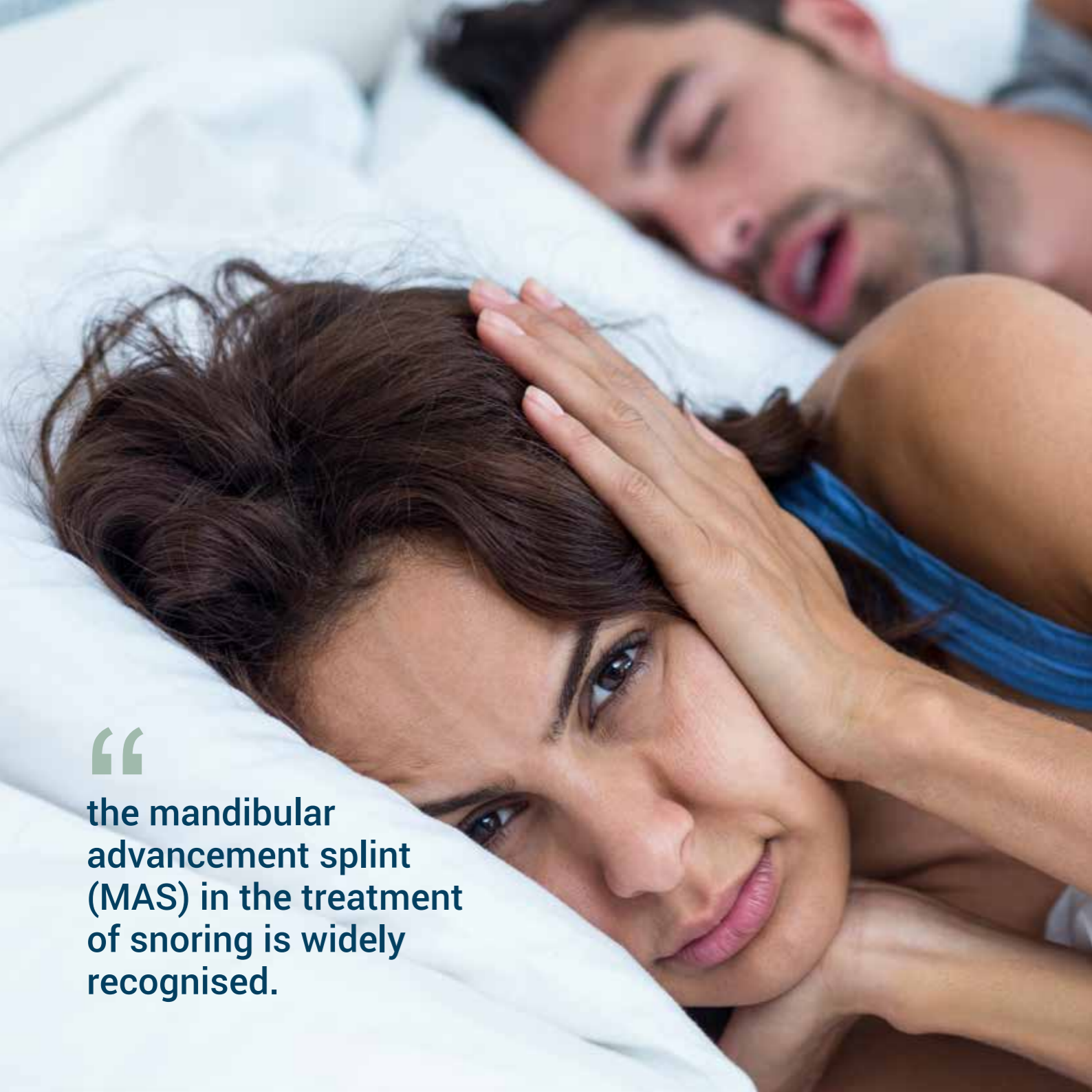
Drawing on clinical experience, and extensive research, we also provide educational opportunities for the whole dental team.

Over 4,500 dental professionals have attended one of our ECPD-verifiable seminars, following which we continue to provide technical and clinical support, enabling you to offer five-star treatment options with confidence.

We pride ourselves on supplying products that are clinically effective, comfortable for the sufferer and offer value for money.

We manufacture mandibular advancement splints, occlusal splints and orthodontic appliances in our laboratory that conform with the provisions of MHRA Council Directive 93/42/EEC concerning the provisions of Medical Devices Regulations S.S No 2002 No 618 and we are committed to comply with customer requirements and the requirements of DAMAS (Dental Appliance Manufacturers Audit Scheme) to continually improve the effectiveness of our quality management system.

We are members of the Dental Laboratories Association, the British Society of Dental Sleep Medicine, the British Orthodontic Society, and the Orthodontic Technicians Association, along with a number of others.



the mandibular advancement splint (MAS) in the treatment of snoring is widely recognised.

SNORING & SLEEP APNOEA

By offering solutions for snoring, you have the opportunity to expand the private services of your practice with proven treatments that can dramatically improve the quality of life for your patients, and their partners.

The effects of snoring are often more than just a noise, and, due to lack of sleep quality, can be serious. Habitual snoring can result in severe daytime sleepiness, increased blood pressure and heightened risk of cardiovascular disease.

The role of the mandibular advancement splint (MAS) in the treatment of snoring is widely recognised (SIGN guidelines, 2003) and works by preventing the lower jaw from retruding, keeping the airway open.

A key area of ours, we are proud to be the exclusive providers of Sleepwell - the most clinically-proven MAS for snoring and mild to moderate obstructive sleep apnoea (Barnes et al, 2004). With a focus on continuous improvement, we have worked with the University of Sheffield's Advanced Manufacturing Research Centre to further develop the device, and now boast a new metal injection moulding technique for accuracy and strength. The Sleepwell is made, in its entirety, in Sheffield.

We also provide a number of other MAS devices to help your patients breathe effectively at night and combat the side effects of snoring.



Our products at a glance

THE SLEEPWELL

The most clinically-proven MAS for snoring and mild to moderate sleep apnoea (Barnes et al, 2004, and Johal et al, 2016), the Sleepwell is a fully self-adjusting two-piece device, meaning the patient can achieve optimum comfort.

- Internal fixings result in high patient comfort
- Full lateral movement
- Mitigates potential TMJ stress
- Soft inner lining for optimum comfort



DORSAL

Our newest offering, the Dorsal appliance is a two-piece device that allows patients to advance the mandible in small increments with the use of an appliance key.



SILENSOR

The Silensor is a semi-adjustable MAS that is light to wear and can be adjusted by the clinician or at the laboratory.



NEGUS

A basic one-piece appliance, these can be made using a soft EVA material, or a hard/soft (dual laminate) material.

In addition to these, we also produce: MYERSON - EMA, HERBST, APNIA - BTI.



I treat so many patients that suffer with jaw joint problems, headaches and migraines.

Most get virtually overnight relief from debilitating symptoms that have been crippling them for years. SCi is a cornerstone in my practice.

Dr Khaira, Migraine Care Institute

BRUXISM & PARAFUNCTION

Despite being prevalent throughout the UK and, worryingly, on the rise, bruxism often remains overlooked and underdiagnosed. Whilst for some bruxing doesn't cause any serious symptoms, for many, the side effects are painful and persistent.

The SCi is an occlusal splint that is designed to remove posterior contact and inhibit the ability to clench. Studies have shown that by doing this, muscle hyper-activity can be reduced by as much as 80% in the temporalis and masseters.

Extremely effective in reducing the symptoms of bruxism and TMD, the SCi is FDA approved for the treatment of medically diagnosed migraines.



SCi - CHAIRSIDE CUSTOMISATION & FITTING

An SCi kit contains all you need for immediate fitting, without the need for impressions. Each kit contains 5 splint 'blanks', thermoplastic beads, appliance storage boxes, consent forms and patient information leaflets.



SCi+ - LABORATORY MADE OPTION

A laboratory-made version, exclusive to S4S. Often chosen to reduce chair time, the SCi+ is made to specification - giving the option to increase retention with a full arch, or retain maximum patient comfort with the traditional partial arch design.





S4S are the pioneers in bruxism awareness and management. In my mind, they are the number one lab for occlusal splints and orthodontic appliances. They are extremely approachable, professional and have been proactive and progressive in promoting awareness of TMJ dysfunction appliances.

I have been prescribing splints with S4S for the last 10 years. I started off with the laboratory made SCi+ appliances and, for the last five years, I've been fabricating in-surgery SCi splints with great success. We have had great outcomes in treating patients with occlusal parafunction, migraines, and headaches.

The service from S4S is fantastic, they are there to help. They are the only laboratory that I know who are interested in patient care and welfare and not just churning out a product.

Dr Neel Jaiswal BDS MFGDP

Our products

As well as the SCi and the SCi+, we offer a comprehensive set of splints for use in the treatment of bruxism, TMD and clinically-diagnosed migraines.

THE TANNER/MICHIGAN

Designed to treat the symptoms caused by dysfunction of the TMJ, and to control bruxism, we have developed a process of manufacture that is robust and, in most cases, eliminates the need for metal claspings.

On lateral excursive movements, the canine guidance ramps allow disclusion of both posterior and anterior teeth by approximately 1mm.



BITE RAISING APPLIANCES (BRA)

Perhaps the most commonly prescribed splint for bruxism and TMD, BRAs are available in a number of designs.

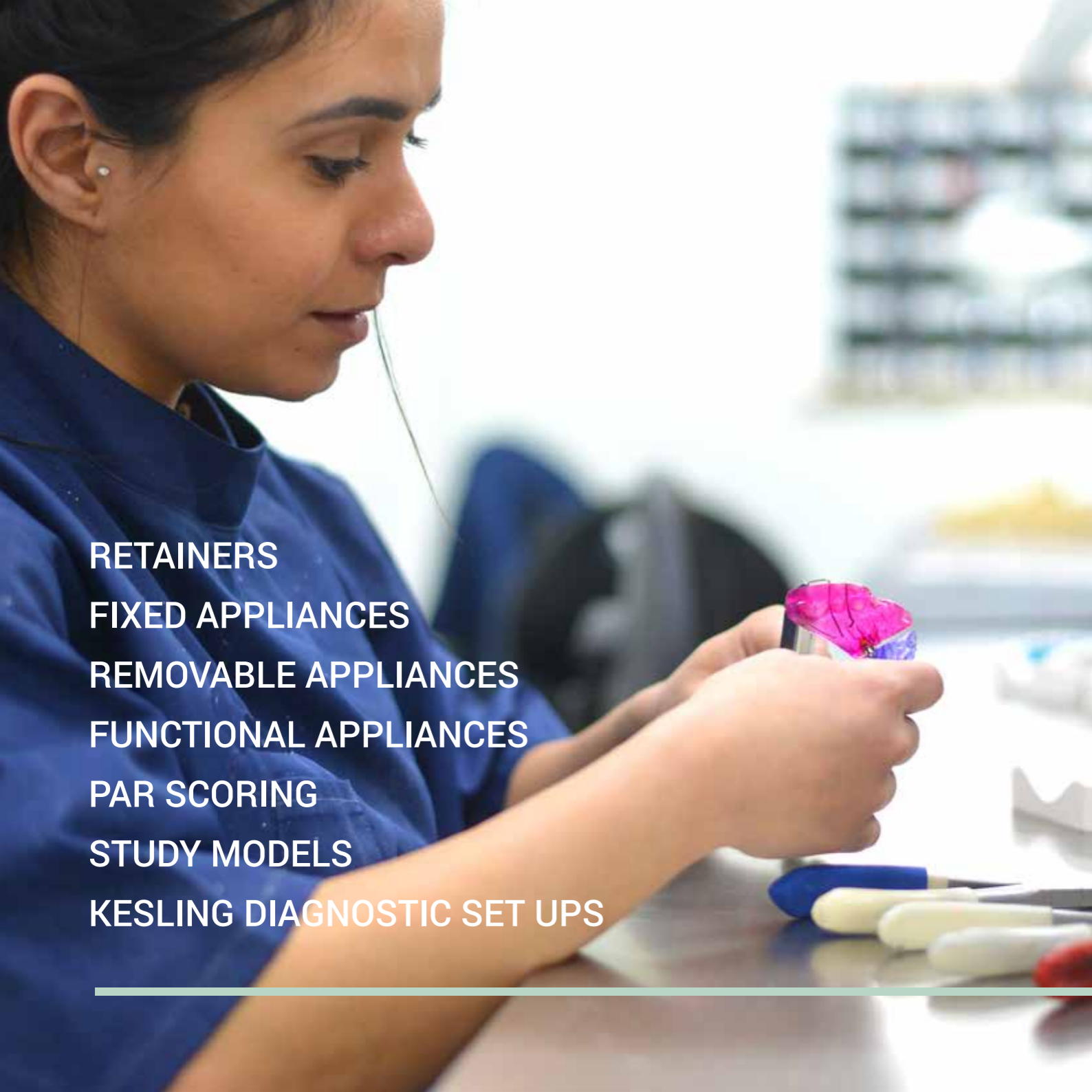
Whilst soft splints have a role to play in trauma cases where the patient's TMJ may have inflamed, some evidence suggests that soft guards significantly increase clenching activity in 50% of patients.



NIGHTGUARDS

Our nightguard is bi-laminate, giving a soft inner lining for increased patient comfort and compliancy. The outer layer is hard, making it more resistant to wear. This is often used to prevent damage from grinding, when the patient presents no other symptoms of bruxism or clenching.





RETAINERS
FIXED APPLIANCES
REMOVABLE APPLIANCES
FUNCTIONAL APPLIANCES
PAR SCORING
STUDY MODELS
KESLING DIAGNOSTIC SET UPS

ORTHODONTICS

Our orthodontic department offers a full range of quality appliances, creating every device to meet your specification.

Serving orthodontists and general dentists throughout the UK, our GDC registered technicians work hard to ensure each appliance is first-class. We offer a range of turnaround times, including a 48-hour retainer service, and a complete range of colours and designs.

Just a small sample of some of the work we do, our orthodontic team will discuss any individual case requirements, and work to your design or specification.



3-WAY EXPANSION DEVICE



URA EXPANSION APPLIANCE



ROBERTS RETRACTOR



HAWLEY RETAINER



FRANKEL FUNCTIONAL REGULATOR



MOA



TWIN BLOCK



NiTi SPRING ALIGNER



LINGUAL ARCH



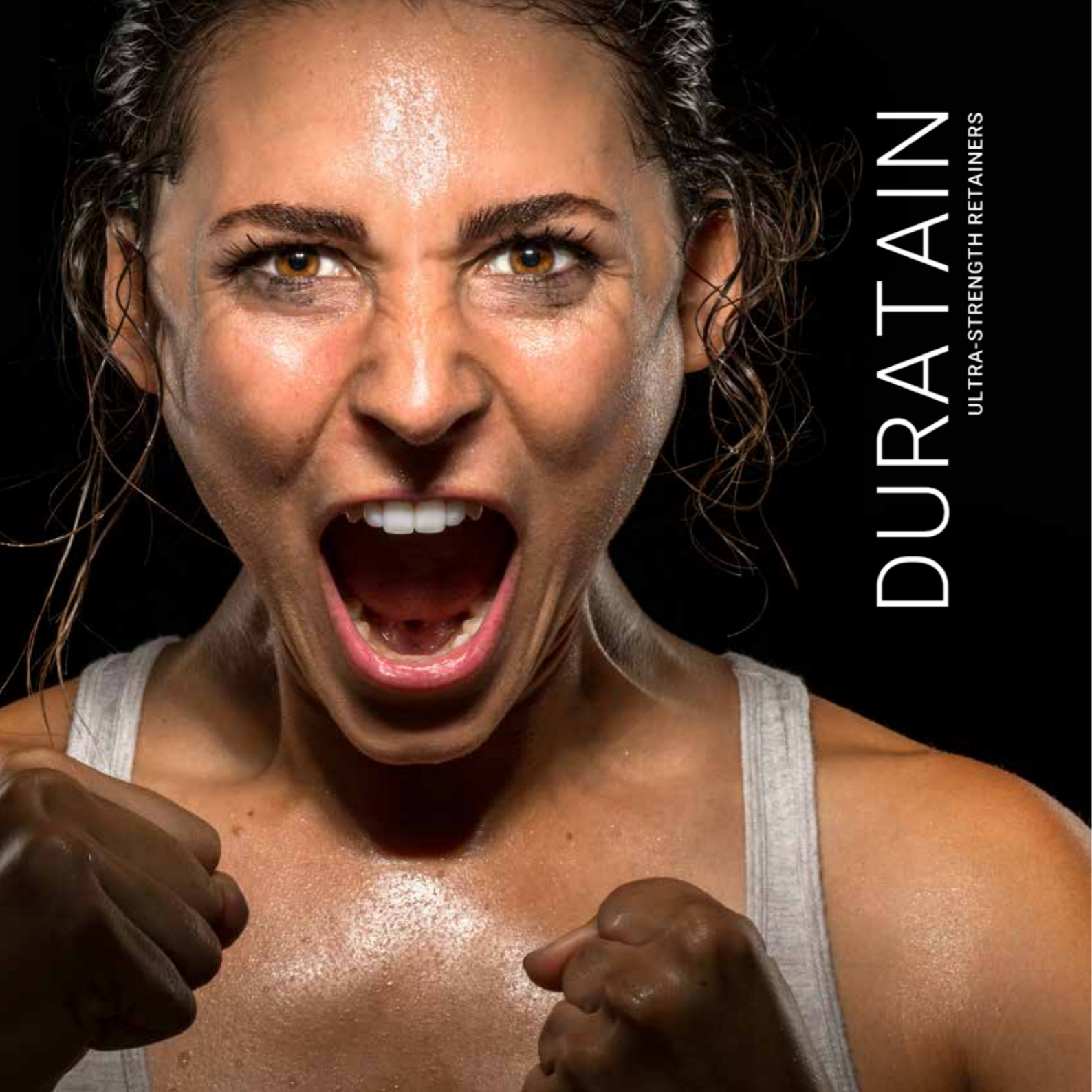
REMOVABLE QUAD HELIX



RAPID MAXILLARY EXPANDER



INDIRECT BONDING SYSTEM



DURATAIN

ULTRA-STRENGTH RETAINERS

DURATAIN

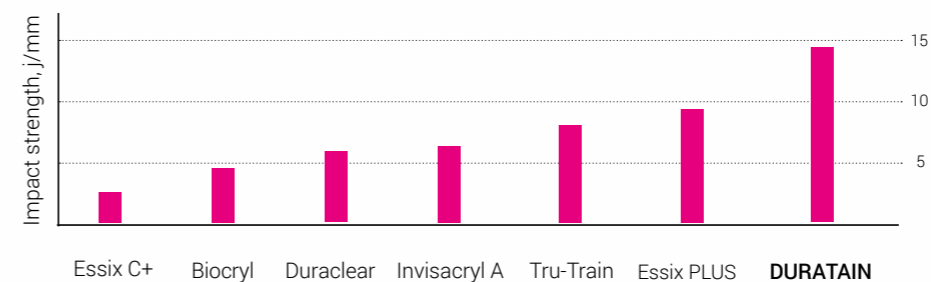
A premium product that is seriously tough, DURATAIN boasts a precise fit, offering effective retention, whilst being lightweight and comfortable.

Key properties include: **strength, ductility, chemical resistance, clarity, and stress relaxation resistance.** They last longer, stay clearer and are crack resistant.

Made in our UK technology lab, DURATAIN is crafted from a material that is stronger than others out there. Withstanding forces that a standard retainer would crack under, the risk of breakage is minimised.

Perfect for those in long-term retention, as well as those that may clench or grind, you can rely on DURATAIN.

Crack resistance/Impact strength:



Material normalised at 0.030 thickness. Measuring the ability to resist cracking under continuous impact.



The image features the Smilelign logo on the left, which consists of the word "smilelign" in a white, lowercase, sans-serif font. A white curved line arches over the letters "lign", resembling a smile. To the right of the logo is a close-up photograph of a young woman with blonde hair, smiling broadly, showing her teeth. She is wearing a white top and a gold necklace. The background is dark and out of focus.

smilelign

SMILELIGN CLEAR ALIGNERS

The clear choice for a better, straighter smile.

Smilelign is a clear orthodontic treatment that consists of virtually invisible, removable aligners that fix common malalignment issues. Each aligner, marginally different to its predecessor and successor, is created using the latest technology, and works to move teeth gradually in small increments until they are in the desired position.

Manufactured entirely in our laboratory in Sheffield, we offer full clinical and technical support - our technicians are on the end of the phone whenever you should need them.

Unique benefits

UK based - no delays and technicians available to discuss cases.

Free software - share images and videos of cases with your patients.

Simultaneous tooth movements - 0.3mm of movement per aligner, meaning faster treatment.

Pre-aligners - unique to Smilelign, allowing patients to trial treatment before committing.

Clear pricing - price capped at 12 aligners and no hidden charges.



Smilelign is a great system, backed by a fantastic team of skilled technicians. I have experienced excellent service and amazing treatment options for my patients.

Having used clear aligners for a number of years, I was very keen to start using this aligner system as Smilelign offers a more cost-effective way for patients to get the results that they want.

Dr Milad Shadrooh, Chequers Dental, Basingstoke.



Case suitability

Crowding



Cases with 3mm of crowding are easy to treat. Cases with up to 6mm will require Interproximal Reduction (IPR) and are only recommended if you are comfortable undertaking this.



Spacing



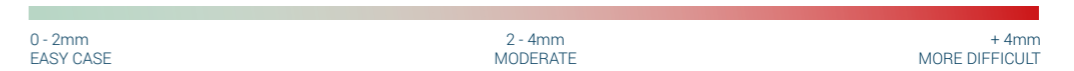
Cases with 3mm of spacing are suitable. Up to 6mm may require some restorative additions or leave residual spaces as part of the treatment plan.



Overjet



Overjets of up to 2mm should be simple to treat. Up to 4mm becomes more difficult and a compromise of a small overjet may be required.



Overbite



Up to 1mm is easy to rectify, up to 3mm increases complexity - intruding teeth with clear aligners is not always simple. Cases with 3mm+ may require bite opening appliances first.



Openbite



Openbites are difficult to treat and are not recommended for Smilelign unless only small closures of 0.5mm per arch are required.

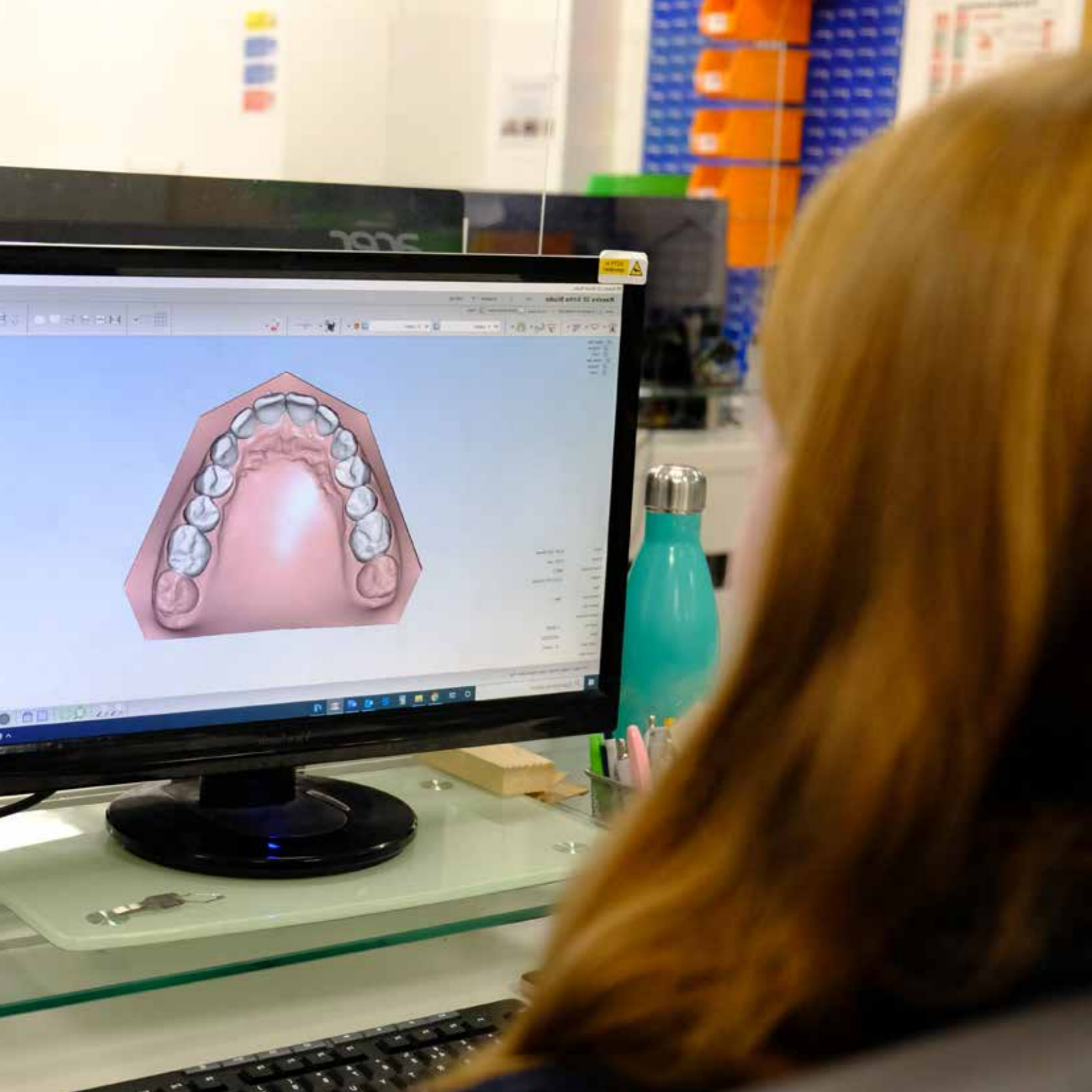


Midline discrepancies



Cases with up to 2mm discrepancy can be easily corrected. Cases up to 4mm will require IPR, and we would only recommend if you are comfortable undertaking this.





The process

5 clear, simple steps.

- 1** You assess the patient and discuss treatment objectives to see if Smileign is the correct option. Impressions should be sent to our laboratory, by freepost or digitally.
- 2** Our technicians use your patient's impressions and produce a treatment plan using our specialised 3D software.
- 3** We send you the treatment plan, along with pre-aligners (to confirm fit) and an animation showing how the teeth will move.
- 4** Once approved, we make the custom aligners - each designed to gently move your patient's teeth into position.
- 5** Your patient wears each aligner for 2 weeks, 24 hours a day (removed for eating and drinking), until their treatment is complete.



PROTEX MOUTHGUARDS



Protect your patient's smile with a custom-made Protex mouthguard.

Created by our team of award-winning dental technicians, our sports mouthguards offer a number of benefits for the patient:

- Incorporates individual needs based on the wearer's dental health and type of sport
- Maximises strength in vital areas
- Minimizes speech impairment
- Increases the wearer's compliance, due to comfort and individual styling

Bespoke designs

Our technicians can create mouthguards to your patient's specification. Below are just a sample of the colours that we can provide and we can also produce guards with unique patterns, glitter, and school or team logos. To discuss a potential design, give the team a call and chat to one of our dental technicians.





TEETH WHITENING

Our ultra-seal trays

Developed by our dedicated team, our trays are, we feel, the best available for delivering optimum results with any bleaching regime. The trays create an 'ultra-sealed' margin at the gingival line. With the combination of the specific tray rigidity and the ultra-sealed margin, we create the perfect barrier to keep saliva from entering into the tray, also reducing the amount of bleaching gel that can escape.

BOUTIQUE
WHITENING



Dosing Dots

Our ultra-seal trays now include 'Dosing Dots' on the labial and buccal aspects of the teeth. The Dosing Dots give patients a guide of how much bleach they should apply to each tooth. Over filled trays can lead to excess material sitting on the oral tissues for prolonged periods of time, which can lead to discomfort or sensitivity. The use of the Dosing Dots and the ultra-sealed margins, in our opinion, gives the ultimate tray for achieving the best results and compliance.

Boutique Whitening

In April 2018, we collaborated with Boutique Whitening to become the exclusive manufacturers of their whitening trays. Boutique Whitening gels can be purchased as a kit that includes a voucher for a set of our bespoke ultra-seal trays. To order a kit, visit boutiquewhitening.com or call 0113 873 0007.



DIGITAL DENTISTRY

Digital technology has changed the landscape. Never before has there been so much opportunity to take advantage of the possibilities and reap the rewards.

Our investment in this area means that we accept scans from all platforms and offer a complete scan and store option - an accurate, convenient and risk-free way to keep, view and archive your models or impressions. As part of our environmental initiative, 60% of all lab work is now produced on digitally printed models, and gypsum models are responsibly disposed of.

COMPREHENSIVE DIGITAL ARCHIVING SERVICE

Our study model archiving service removes the need to store patient models, instead offering open files that can be recalled at any time. We scan your models, and either store the 3D data securely at our laboratory, or pass back for you to hold in-practice. Using an open file format, the data can easily be retrieved, emailed and printed upon request.

SEND YOUR DIGITAL IMAGES

Just as we can create and store your 3D models, we can also receive cases in digital format from a variety of sources including: iTero, Sirona, 3Shape, Planmeca, CS Connect or any other file sharing platform. Even better, there is **no additional fee** for printing digital files for a laboratory appliance. To submit your digital cases, please visit s4sdental.com/digitalcases.

Express Digital Retainer Service

Our latest offering, this service means that **digital scans that are received for retainers by midday are shipped the following day via tracked next day delivery**. This means retainers can be delivered as soon as 48 hours after the scan is taken.



MARKETING & SUPPORT

You need to ensure your services are communicated well to your patients. We can help you make sure that happens.

We provide a range of marketing materials to help promote and educate your patients about snoring & sleep apnoea, bruxism and Smileign clear aligners. Available to you as and when you need them, we also offer imagery and templated copy for use on your own collateral, your website and even your social media channels.

PRINT

We offer posters and patient leaflets free of charge, as well as a number of other supporting documents, such as consent forms, patient advice and pre-screening questionnaires.

ONLINE

Our website features our heavily used Find a Provider, which directs patients to practices in their specified location. We also have a range of digital marketing materials available including: images, product logos, videos, suggested website wording, and more.

SUPPORT

Our skilled GDC registered technicians are always available to provide technical support, as well as appliance selection advice and design.

Our Marketing team are also available to discuss any of our products and ECPD verifiable seminars with you and can also provide bespoke marketing materials, such as pull ups, for you to display in your practice. Contact us on marketing@s4sdental.com for more information.



ECPD SEMINAR PROGRAMME

INCREASE YOUR REVENUE. GROW YOUR PRIVATE SERVICES. OFFER CLINICALLY PROVEN PRODUCTS.

Drawing on many years of clinical experience and extensive research, we provide excellent educational opportunities for the whole dental team. Covering **snoring & OSA, bruxism and Smileign clear aligners**, our courses are led by professionals respected in their fields and equate to **6 hours of verifiable ECPD**.

How our ECPD seminar programme works

At S4S, we understand that people learn in different ways. As such, we have three different options available for those wishing to learn about providing new treatments with one of our ECPD verifiable seminars:

Online
course
only

Online
course
package

Seminar
training
day

Online course only: This option provides you with a digital copy of your chosen seminar but does not include any of the online package benefits. You will receive a certificate for 6 hours of verifiable ECPD once you have viewed the course and completed the feedback form.

Online course package: This option includes everything listed above, as well as the exclusive package benefits we have available on our in-person seminars. These include: your first/next appliance, a demo model and appliance to show to patients, and more.

Seminar training day: This option sees you attend our one-day training course for your chosen seminar in either London or Sheffield. It includes the full package outlined for each course, as well as a digital copy of the seminar for you to refer back to, and networking opportunities with likeminded individuals. You will also be able to ask our course speakers your questions.

View course content and what is included in each package at s4sdental.com/ecpd.

REQUIREMENTS MATRIX

	Impressions			Bite					
	Upper	&	Lower	ICP	Protrusive	Retrusive	Open CR	Functional	Facebow
Sleepwell - new	Y	&	Y	-	-	-	-	-	-
Sleepwell - replacement	Y	&	Y	Optional	Y	-	-	-	-
Silensor	Y	&	Y	Optional	Y	-	-	-	-
Negus	Y	&	Y	Optional	Y	-	-	-	-
Herbst/IST	Y	&	Y	Optional	Y	-	-	-	-
Hanks Herbst	Y	&	Y	Optional	Y	-	-	-	-
SCi+	Y	&	Y	Optional	Y	Y	-	-	-
SCi Retainer Style	Y	&	Y	Optional	Y	Y	-	-	-
Dual Arch Sliders	Y	&	Y	Optional	Y	Y	-	-	-
B Splint	Y	&	Y	Optional	Y	Y	-	-	-
Kois Deprogrammer	Y	&	Y	Optional	Y	Y	-	-	-
Gelb	Y	&	Y	Y	-	-	-	-	-
FPSP	Y	&	Y	Y	-	-	-	-	-
Michigan/Tanner	Y	&	Y	Y	-	-	Y	-	Y
ARS	Y	&	Y	Optional	Y	-	-	-	-
Dual Laminate Nightguard	Y	or	Y	-	-	-	-	-	-
SBRA	Y	or	Y	-	-	-	-	-	-
Sports Mouthguard	Y	or	Y	-	-	-	-	-	-
DURATAIN/Essix	Y	or	Y	-	-	-	-	-	-
Bleaching Tray	Y	or	Y	-	-	-	-	-	-
Bonded Retainer	Y	or	Y	-	-	-	-	-	-
Lab Aligner	Y	&	Y	-	-	-	-	-	-
Smileign	Y	&	Y	Y	-	-	-	-	-
Hawley Retainer	Y	or	Y	-	-	-	-	-	-
Begg Retainer	Y	or	Y	-	-	-	-	-	-
Twin Block	Y	&	Y	Optional	-	-	-	Y	-
MOA	Y	&	Y	Optional	-	-	-	Y	-
Indirect Bonding	Y	&	Y	Y	-	-	-	-	-

CONTACT US

On our website, you will find the latest seminar dates. You can also download prescription forms, freepost labels and request marketing materials.

If you cannot find what you're looking for or have any questions regarding any of our products, please get in touch.

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