PRE-SCREENING QUESTIONNAIRE

Snoring and Obstructive Sleep Apnoea (OSA)

Remember:

- · All patients can be treated for snoring with a Sleepwell Mandibular Advancement Splint (MAS)
- Even if OSA is suspected, Sleepwell can be provided to help treat the patient's snoring
- OSA referral is simple complete the tear off part of this questionnaire and give to the patient

Snoring and daytime sleepiness can have a profound impact on quality of life:

- Daytime sleepiness less effectiveness at work and increased risk of accidents
- Reduced energy poor motivation to exercise and weight gain
- Relationship issues sleeping in different bedrooms, reduced sex life and higher stress levels
- Hypertension those who snore or suffer from OSA have an elevated risk of high blood pressure

OSA is a serious condition in which a person stops breathing (or suffers extremely low oxygen levels) whilst asleep. It often occurs in conjunction with snoring.

Patient r	name:						
Address	:						
Postcod	e:						
Telephone - home:							
Telepho	ne - mobile:						
The following questions relate to your lifestyle and general health. Please indicate whether you have suffered with any of the below, providing further details when the answer is yes.							
		Υ	Ν				
Heart pr	oblems						
High blo	od pressure						
Diabetes	3						
Thyroid syndrome							
Do you take any prescribed medicines?							
Please ir	ndicate:						
	Alcohol consump	otion		units/week			
	Smoking level			no/day			

PRE-TREATMENT QUESTIONNAIRE

PLEASE ENSURE THAT THIS FORM IS COMPLETED USING BLACK INK AND IN CAPITALS

PATIENT'S MAIN CONCERNS					
Please indicate if you have suffered with any of the conditions	below, giving fu	ırther details when	required:		
Y N	Details				
Headaches on waking					
Daytime sleepiness					
Sleepiness whilst driving					
Snoring most nights					
Snorting or gasping during sleep					
PREVIOUS TREATMENT IN RELATION TO SLEEP DISORDERS					
Y N	Details				
Lifestyle change					
Nasal CPAP					
Surgery					
Previous sleep study	If yes, note A	HI score:			
SLEEPING PARTNER QUESTIONNAIRE (optional, if the partner	is present)				
Partner's name:					
Please indicate your quality of sleep:	Please indica	ate your partner's c	quality of sleep:		
Good Average Poor	Good	Average	Poor		
How would you rate the severity of your partner's snoring? Please tick one box only.	Does your partner's snoring disturb your sleep? Please tick one box only.				
No snoring	Never				
Mild snoring	Hardly ever				
Moderate snoring	Sometimes				
Loud snoring	Usually				
Very loud snoring	Always				
EPWORTH SLEEPINESS SCALE - TO BE COMPLETED BY THE					
How likely are you to doze off or fall asleep in the following situ of these situations recently, try to work out how they may affect	,	-			
0 - NEVER doze 1 - SLIGHT chance		MODERATE chance		3 - HIGH chance	
Sitting and reading					
Watching TV					
Sitting, inactive in a public place (i.e. theatre, meeting)					
As a passenger in a car for an hour, without break					
Laying to rest in the afternoon, when circumstances permit					
Sitting and talking to someone					
Sitting quietly after lunch when NO alcohol has been consumed	d				
In a car, stationary for a few minutes in traffic					
	Total (0-24)	***************************************	••		

		Υ	Ν	
S	Do you snore loudly? Enough to be heard through closed doors?			
Т	Do you often feel tired , fatigued, or sleepy during the daytime?			
0	Has anyone observed you stop breathing during your sleep?			
P	Do you have or are you being treated for high blood pressure ?			
В	Is your Body Mass Index (BMI) more than 35?			
A	Are you aged over 50?			
N	Is your neck circumference greater than 40cm?			
G	Is your gender male?			

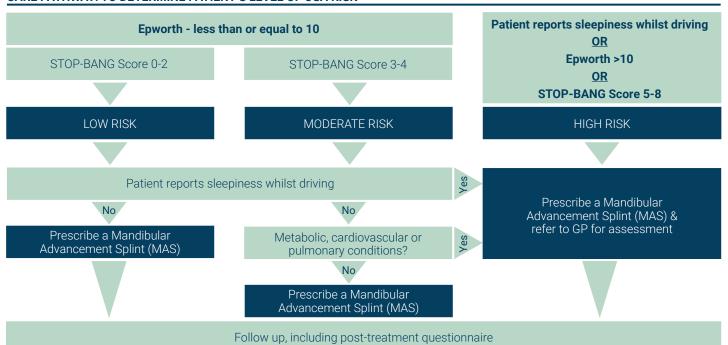
Calculating your BMI

You can find BMI calculators online, which are quick and easy to do. Alternatively, you can use the formula: WEIGHT (KG)/HEIGHT (M)²

DENTIST USE ONLY - Oral examination	Please tick t	hose that apply:		
Incisor relationship	Class 1	Class 2 Div	I Class 2 Div II	Class 3
Overjet	mm			
Overbite	mm			
OH/Periodontal condition	Good	Fair	Poor	
Tonsils - enlarged/inflamed	Yes	No		
Bruxism/clenching/grinding of teeth	Yes	No	Severe/Not Severe (note	severity on lab ticket)
TMJ assessment:				
Max lateral movements	Lmm	n R	mm	
Max opening	mm	1		
Max protrusion	mm	1		
Tenderness to palpitation	Yes	No		
Pain on mandibular movement	Yes	No		
Smooth movement	Yes	No		
Locking and/or luxation	Yes	No		

Total number of 'Yes' answers:

CARE PATHWAY: TO DETERMINE PATIENT'S LEVEL OF OSA RISK



GP REFERRAL

To - GP details	From - GDP details
	Date:
Dear Dr	
Patient name:	
I have assessed the above patient in relation to his/her producement Splint to address their snoring complaint.	esentation of snoring. I have provided him/her with a Sleepwell Mandibular
Your patient has collective signs and symptoms of Obstruct medical assessment.	tive Sleep Apnoea (see summary below) and I feel that they require further
Daytime sleepiness (Epworth Sleepiness Score)	
Reports sleepiness whilst driving	
Stops breathing during sleep	
STOP-BANG Questionnaire Score	
Other Comments:	
On the reverse of this letter is a summary of th information regarding Snoring and OSA can be found on the	e Epworth Sleepiness Scale and STOP-BANG questionnaire Further S4S website: www.s4sdental.com.
I would appreciate any feedback regarding the outcomes hesitate to contact me.	of further investigation. If I can be of any further assistance, please do not
Yours sincerely,	

SNORING & OBSTRUCTIVE SLEEP APNOEA

Snoring and OSA is a serious medical issue. It leads to broken sleep for snorers and their partners, can have a profound impact on quality of life, and can be highly embarrassing.

Daytime sleepiness – Less effectiveness at work and increased risk of accidents

Reduced energy - Poor motivation to exercise, causing weight gain

Relationships - Sleeping in different bedrooms, reduced sex life, and higher stress levels

Hypertension - Patients who snore and have OSA have an elevated risk of high blood pressure

OSA is the term used when a person stops breathing for short periods whilst asleep, before creating a gasp, snort or choking sound. Breathing interruptions, known as 'sleep apnoea', reduce oxygen levels in the blood. During sleep, the brain reacts quickly and releases adrenaline, which causes partial wakening. This cycle can occur many times, interrupting sleep and leading to daytime tiredness.

SCREENING & DIAGNOSIS

The NHS will not treat simple snorers due to financial constraints, and only 50% of sleep centres provide a comprehensive treatment service for OSA.

SNORING TREATMENT

Mandibular Advancement Splint Therapy (MAS therapy) offers effective treatment for simple snoring and mild to moderate OSA. Continuous Positive Air Pressure (CPAP) should be offered to sufferers of severe OSA.

What is a Mandibular Advancement Splint (MAS therapy)? This is a collective name for mouthpieces which are designed to prevent the lower jaw from dropping back during sleep, in turn reducing the risk of airway narrowing. The narrowing of the airway causes the soft tissue to vibrate, causing the sound of snoring. The role of mandibular advancement splints in the management of snoring is widely recognised (SIGN guidelines, 2003). The most clinically proven and effective mandibular advancement splint is Sleepwell - available from S4S trained dentists. Lower cost, self-diagnosis treatments are called Snoresolve and Snoreshield.

EPWORTH SCALE M.JOHNS Sleep, 1991 Dec; 14(06):540-5

A method for measuring daytime sleepiness: the Epworth sleepiness

Johns MW. Sleep Disorders Unit, Epworth Hospital, Melbourne, Victoria, Australia.

The Epworth sleepiness scale (ESS) is a simple, self-administered questionnaire which is shown to provide a measurement of the subject's general level of daytime sleepiness.

180 adults answered the ESS, including 30 normal men and women as controls and 150 patients with a range of sleep disorders. They rated the chances that they would doze off or fall asleep when in eight different situations, commonly encountered in daily life. Total ESS scores significantly distinguished normal subjects from patients in various diagnostic groups, including OSA, narcolepsy and idiopathic hypersomnia.

ESS scores were significantly correlated with sleep latency, measured during the multiple sleep latency test and during overnight polysomnography. In patients with OSA syndrome, ESS scores were significantly correlated with the respiratory disturbance index and the minimum SaO2 recorded overnight. ESS scores showed patients who simply snored did not differ from controls.

PATIENT INFORMATION

Snoring results from a partial closure of the airway during sleep, and most commonly occurs in isolation (simple snoring). Less often, it can take place as part of a more serious condition, OSA, which can be potentially life-threatening. This screening questionnaire has been used by your dental practitioner to help identify your risk of OSA. However, only a sleep physician can diagnose OSA after performing an overnight sleep recording that measures your breathing patterns.

Anti-snoring dental appliances have been shown to play an effective role in the management of patients with snoring and/or OSA. The appliance will not cure the disorder, but works by temporarily repositioning the lower jaw and tongue forwards - keeping the airway open. In order to be effective, the appliance must be worn each night. If the use of the appliance is discontinued, the symptoms will recur. There is no guarantee that an appliance will be effective in every patient, due to individual variation in response. A high standard of oral hygiene is important for a successful outcome, as is the care and use of the device as per supplied instructions.

It is important that you return for assessment after the fitting of your appliance. You will be asked to complete a simple questionnaire, designed to assess your response to treatment and gain feedback from your partner. Whilst this provides valuable feedback, for OSA sufferers, a follow-up overnight sleep recording with Sleepwell in the mouth is the only way to know if your breathing has improved sufficiently.

After wearing the appliance, most patients initially report a degree of drooling, or some patients feel that their teeth do not come together (bite) properly. These are short-term effects and lessen with time. If, however, you awaken with a dry mouth sensation, the fit of the appliance may need adjusting to improve its grip on the teeth. There is a risk that long-term wear can result in a degree of movement in your teeth. It is therefore important that you maintain the health of your teeth, and, most importantly, your gums with regular dental care. Very rarely, the jaw joints may become sore. This is most typically seen in patients with a history of jaw discomfort and/or those who self-adjust their appliances too aggressively. In addition, the splint may require replacement as a result of wear or breakage.

PATIENT CONSENT - LOW/MODERATE RISK OF OBSTRUCTIVE SLEEP APNOEA

an overnight sleep study in order to diagnose OSA.

Patient's name:

Date:

Clinician's name:

Clinician's signature:

Date:

I have given complete and accurate replies to the questions within this document, have read the information given to me and understand how Sleepwell, made by S4S (UK) Ltd, may help my snoring and/or sleep apnoea. I understand that I would need to undergo

PATIENT CONSENT - HIGH RISK OF OBSTRUCTIVE SLEEP APNOEA

I have given complete and accurate replies to the questions within this document, have read the information given to me and understand how Sleepwell, made by S4S (UK) Ltd, may help my snoring. I understand that I would need to undergo an overnight sleep study in order to diagnose OSA. I have also been made aware of the risk of having OSA and have been advised as follows:

To visit my GP with a letter provided by the dentist

Patient's name:	Patient's signature:	
Date:		
Clinician's name:	 Clinician's signature:	
Date:		

DISCLAIMER - The questionnaires being described in this handout have been obtained from published scientific literature. However, we do not endorse their sole use to establish a diagnosis of OSA. It is important to emphasise that the subjective responses upon which these questionnaires rely have the potential to be underestimated by some people. Particular care should be taken in interpreting the results for people whose occupations require high alertness, such as transport drivers. An overnight sleep study would be required to diagnose OSA.