

Managing Dental Anxiety



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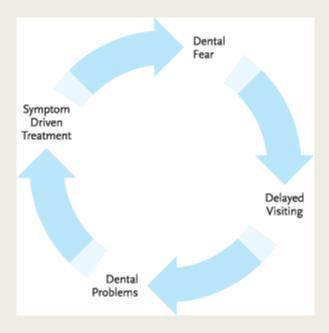
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INTRODUCTION

Dental fear (also known as dental phobia, odontophobia, dentophobia, dentist phobia and dental anxiety) is the fear of dentistry and receiving dental care.

Fear and anxiety, however, toward the dentist and dental treatment are both significant characteristics that contribute to avoidance of dental care.

Delaying dental care due to anxiety prevents early diagnosis of dental decay and conditions that could be treated quickly, typically leading to more involved and costly treatment, starting what is described as the DENTAL ANXIETY CYCLE.



Patients that avoid dental visits because of fear, may worsen their dental problem requiring more intensive treatment that reinforces their fear. It is a frequently encountered problem in dental offices and faced with these patients can cause even considerable stress for the dentist.

People with dental fear need to be identified at the earliest opportunity to address their concerns. The dental professional should properly manage the patient in order to save time and create a trusted relationship, creating a calm dental experience. Managing dental anxiety with non-pharmacological techniques (behavioral and cognitive) is the best way to approach this common problem while providing care to anxious or fearful children and adults

Cognitive strategies aim to alter and restructure the content of negative cognitions and enhance control over the negative thoughts.

This clinical tip offers a review to understand fear and anxiety in the dental clinic and discover different approaches to help dental practitioners in managing dental anxiety.



The nature of dental anxiety and fear

Dental anxiety and fear come from different factors such as:

- prior traumatic experiences especially in childhood
- negative experiences from family members or friends
- individual personality characteristics that make the patient fearful such as painful or uncomfortable procedures, fear of gagging and/or choking, bloodinjury fear, lack of trust or fear of betrayal. In addition, a sense of helplessness in the dental chair or a lack of control during the treatment, lack of understanding from the dentist may contribute to the anxiety.
- embarrassing for an existing oral health condition
- lack of understanding from the dentist

- anxiety provoked by sensory triggers (e.g. sounds of drilling, smell of antiseptics and cut dentine or the sight of the syringe and needle)
- unconscious fear that becomes phobic as an irrational state that leads to avoidance of the procedure(s).



Managing dental fear patients, a general approach and first contact

According to the Internet, different surveys have been published on the percentage of people who will not be visiting the dentist due to fear.

This percentage varies from 25% to 40% depending on the population sample. Intercountry variation also applies.

The initial interaction of the dental professional with the patient can usually reveal the presence of anxiety where subjective and objective evaluations can greatly enhance the prognosis for successful management of the experience.

The dental professional must have a calm and continuous dialogue with the patient to identify severity of the fear of the patient and the dental situation giving rise to the anxiety. Asking a few open-ended questions followed by specific questions may provide more information on his/her anxiety.

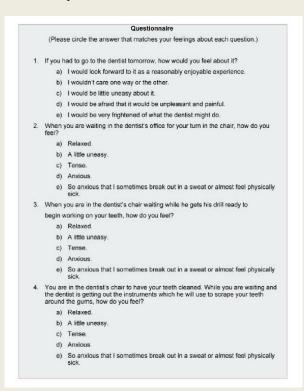
Anxiety questionnaires

The intensity and nature of dental anxiety varies from one person to another. A multiple/single-item self-reporting questionnaire can be useful for assessing anxious and phobic patients at the initial contact.

There are a variety of these reported assessments, and the Corah's Dental Anxiety Scale (CDAS) is probably the most well-known adult questionnaire designed for this scope; it is brief and has good psychometric properties.

The CDAS consists of four questions about different dental situations. Each question is scored from 1 (not anxious) to 5 (extremely anxious) so the score range is 4 to 20. A score of 15 or more indicates profound anxiety.

The CDAS questionnaire



MDAS e DFS are two others common scales.

The Modified Dental Anxiety Scale (MDAS), is a brief well-validated 5-item questionnaire with 5-point responses to each question, ranging from "not anxious" to "extremely anxious". The range of a possible score is 5-25. The higher the score, the higher dental fear,

and a cutoff point for high dental fear has been suggested at a score of 19.

The MDAS questionnaire

	CAN YOU			IOUS YOU GI NTAL VISIT?	T, IF AT	ALL,
PLEA	SE INDIC.	ATE BY	INSERTING	'X' IN THE A	PPROPR	IATE BOX
1. If you went to y	our Dentist	for TRE	ATMENT TO	OMORROW, h	ow would	l you feel?
Not Anxious	Slightl Anxiot		Fairly Anxious [Very Anxio	us 🗌	Extremely Anxious
1. If you were sitti	ng in the W	AITING	ROOM (wai	ting for treatm	ent), how	would you feel?
Not Anxious	Slighti Anxiot		Fairly Anxious [Very Anxio	us 🗌	Extremely Anxious
1. If you were abou	ıt to have a	тоотн	DRILLED,	how would you	feel?	
Not	Slightl	v	Fairly	Verv		Extremely
Anxious	Anxiou	is 🗌	Anxious [Anxio	us 🗌	Anxious
1. If you were abou	it to have y	our TEE	TH SCALED	AND POLISI	IED, how	would you feel?
Not	Slightl	v	Fairly	Verv		Extremely
Anxious	Anxio		Anxious [Anxio	us 🗌	Anxious
If you were about back tooth, how Not Anxious		feel?	Fairly Anxious	Very Anxio		ur gum, above an Extremely Anxious
Instructions for sco					th patients)
The Modified Dentai	Anxiety Sca	ile. Each	item scored a	s follows:		
Not anxious	= 1					
Slightly anxious	= 2					
Fairly anxious	= 3					
Very anxious	= 4					
Extremely anxious			- 6 - 26 C	- er :- 101		1- P V-44
Total score is a sum dentally anxious pati				OII IS 19 or ab	ove which	indicates a highly

The Children's Fear Survey Schedule consists of 15 questions scored from 1 (not afraid) to 5 (very afraid), and a score of 45 or more represents high level of anxiety. An alternative questionnaire for children is the Visual Analogue Scale.

The CFS questionnaire

1. Dentists	1 2 3 4 5
2. Doctors	1 2 3 4 5
3. Injections	1 2 3 4 5
4. Having somebody examine the mouth	1 2 3 4 5
5. Having to open your mouth	1 2 3 4 5
6. Having a stranger touch you	1 2 3 4 5
7. Having somebody look at you	1 2 3 4 5
8. The dentist drilling	1 2 3 4 5
9. The sight of the dentist drilling	1 2 3 4 5
10. The noise of the dentist drilling	1 2 3 4 5
11. Having someone put instruments in your mouth	1 2 3 4 5
12. Choking	1 2 3 4 5
13. Having to go to the hospital	1 2 3 4 5
14. People in white uniforms	1 2 3 4 5
15. Having the nurse clean your teeth	1 2 3 4 5
The anxiety is marked in 5 point anxiety scale:	
1. Not afraid at all	00
2. Very little	
3. Moderate fear	
4. Pretty much afraid	
5. Very much afraid	

The Dental Fear Survey (DFS) consists of 20 items concerning avoidance behavior, physiological fear reaction, and different fear objects concerning dental appointments and treatment, giving summed scores from 20 to 100. A cutoff point for high dental fear has been suggested at more than 60. The scale has 3 dimensions: avoidance of dental treatment, somatic symptoms of anxiety, and anxiety caused by dental stimuli.

The DFS questionnaire

Kleink	necht Denta	l Fear Survey (DF	S)						
Name									
Date_									
to den	tal work. Pl	questionnaire refer ease rate your feel the category which	ing or reaction on	these items by	circ	ling	the n		
1.	Has fear of	dental work ever	caused you to put	off making an	anno	intm	ent?		
	1		3	4					
	never	once or twice	a few times	often	nea	ırly o	every	tim	e
2.	appointmen	dental work ever of	-						
	1	once or twice	3	4			5		
	never	once or twice	a few times	often	nea	ırly e	every	tim	e
W	hen having d	dental work done:							
3.	My muscle	s become tense							
	1	2	3.	4					
	never	once or twice	a few times	often	nea	ırly o	every	tim	c
4.		ng rate increases	3	4			5		
		once or twice	a few times	often	nea	ırly e	5 every	tim	e
5.	I perspire								
	never	2	a few times	often		selv.	every	+i	
	never	once or twice	a iew times	onen	nea	шу	every	um	С
6.	I feel nause	eated and sick to m	y stomach	4			5		
		once or twice		often	nea	ırly e	every	tim	e
7	My boost b	anto factor							
/.	My neart o	eats faster 2	3	4			5		
	never	once or twice	a few times	often	nea	ırly o	5 every	tim	e
them of relaxed	or fear pro causes you. I and "5" be	of things and situ ducing. Please rat Circle the numb sing so anxious you and describe what	e how much fear, ers 1-5, from the u feel ill. (If it he	anxiety, or un following sc elps, try to ima	pleas ale,	santn "1"	ess e	ach g ve	of ry
8	Making an	appointment for de	ontictes		1	2	3	4	5
		ng the dentist's offi			î	2	3	4	5
	Sitting in the waiting room					2	3	4	5
	. Being seated in the dental chair					2	3	4	5
	The smell of the dentist's office					2	3	4	
	Seeing the dentist walk in					2	3	4	5
		anesthetic needle			1	2	3	4	5
		needle injected			1	2	3	4	5
	Seeing the				1	2	3	4	5
	Hearing the		L.:11		1	2 2 2	3	4	5
		vibrations of the d	ILITI		1	2	3	4	5
		r teeth cleaned considered, how fe	arful are you of b	ving dental	1	2	5	4	3
20.	work done?		arter are you or in	rring dental	1	2	3	4	5

Information on the use of these questionnaires in the routine dental practice is scarce and a small percentage of dentists have used them. Consideration of the use of this tool is beneficial and recommended because discloses the degree of the anxiety helping to reduce it.

The dental office environment

Dental office ambience and a welcoming staff play a significant role in initiating dental fear and anxiety.

The office atmosphere can be made calm and unthreatening by the playing of soft music and lights.

The paint may be in soothing colors, the walls can be adorned with posters and pictures.

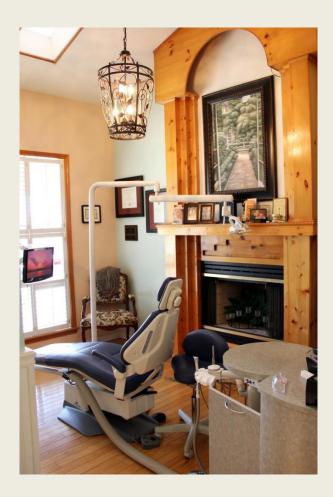
Comfortable chairs, moderate room temperature and pleasant ambient odors can help reduce anxiety in susceptible patients.



Reducing procedural wait times is important because 10 minutes can seem a never-ending period for the nervous patients.

The receptionist, dental assistants and hygienists should exhibit positive and caring behavior to make these patients comfortable.





Communication and trust building

A good relationship between patient and dentist is crucial for the management of anxiety.

The patient should know what to expect during and after the treatment.

Open-ended questions are always good along with inquiries about any discomfort.

Nonverbal communication such as facing the patient and making eye contact are an essential skill.

Giving the patient some control creating a signal would let the dentist know when the patient requires a break.



Psychological approaches to managing dental anxiety

Distraction

A focused attention on specific alternative visual or auditory stimuli might be beneficial for patients with mild to moderate dental anxiety.

Distraction is a useful technique of diverting the patient's attention from what may be perceived as an unpleasant procedure.

Technological options are available for both visual and auditory distraction such as background music, television sets, video glasses for watching movies.

Suitable music has been shown to influence human brain waves, leading to deep relaxation and alleviating pain and anxiety.

Music distraction is a noninvasive technique in which the patient listens to pleasant music during a stressful procedure.



Relaxation breathing

Deep breathing techniques which require the patient to breathe slowly and deeply, taking in as much oxygen as possible help to relax the patient. The patient may feel calmer and by focusing on the breathing technique become distracted from worrying about the dental treatment.

There are several variations on relaxation breathing.

Slow, steady breathing for 2-4 minutes is regarded as effective in reducing a patient's heart rate and making anxious patients noticeable more comfortable.

Breathing techniques can be taught quite easily at the dental office and can be practiced at home by the patient prior to the initial visit.



Progressive relaxation

This is a way of relaxing each individual muscle in the body, starting from the toes. The patient should tense all their muscles until the head is reached, then release the tension in all muscles to go completely loose and relaxed.

The procedure used in progressive muscle relaxation is relatively simple but requires an investment of time to teach the patient and for the patient to practice at home. Usually this involves twice per day 1-2 weeks before the visit to master the technique that consists of

holding muscles for 5 to 10 seconds, and then relaxing them for about 10 seconds, with attention focused on the tension and the relaxation.



Guided imagery

Guided imagery involves patients mentally taking themselves to a pleasant and relaxing place.

In this relaxation method, the patient imagines something of a pleasurable and calming experience. They can pretend to be in a secure environment rather than the dentist's surgery, trying to produce as vivid an image as possible and focus entirely on this feeling to be more relaxed

The dental practitioner can help the patient by using a calm and relaxed manner, guiding the patient through the scene and attempting to engage as many of the patient's senses as possible (sight, sound, touch, smell).



Positive reinforcement

Reinforcers include positive voice modulation, facial expression, verbal praise, and appropriate physical demonstrations of affection by all members of the dental team. These should be individualized, frequently provided, and varied over time.

Planning and scheduling

It is recommended that treatment planning for highly anxious people be both flexible and introduced to the patient in phases.

Phasing treatment allows time for the patient to learn and practice some of the behavioral strategies such as those suggested in this paper.

The treatment sequence should commence with the least fear evoking and painful techniques. Initial phase should be restricted to procedures designed to increase the patient's ability to tolerate treatment and desensitize the patient to the dental environment, helping to build trust with the dental professional. The second or third treatment phase should be reserved for more extensive or complex procedures.



It also is recommended that anxious patients schedule appointments for a time when they aren't rushed or stressed. Early in the morning is a good time because it circumvents a patient stressing about the visit all day and avoids the likelihood that there will be a delay in being seen when the patient arrives at the clinic.

Patients could be encouraged to bring a relative or a close friend along to the first appointment to act as an advocate and for social support.

Conclusion

Dental anxiety and fear have adverse impacts on a person's quality of life.

The general technique to keep patients calm before and during treatment includes:

- 1. Creating a relaxing and calm environment.
- 2. Improving patient communication.
- 3. Give to patients a modicum of control.

Patients with low or moderate anxiety can be managed by dental practitioners with good communication skills, empathy, cautious treatment and basic non-pharmacological approaches such as those presented in this paper.

The choice of anxiety management approaches should be based on patient understanding, history and concerns.

Of course, what works for one patient might not for another.

Dental practitioners can have a great satisfaction in managing patient's dental anxiety and their oral health.

All successful treatment will rest on dentistpatient cooperation and thus a relaxed patient will obviously result in a less stressful atmosphere for a dental team and better treatment outcomes.



References

This paper was mainly edited based on the following works review:

- Management of fear and anxiety in the dental clinic – JM Armfield, LJ Heaton
 ADA 2013
- Strategies to manage patients with dental anxiety and dental phobia – DP Appukuttan – Clinical, Cosmetic and Investigational Dentistry 2016