Psychological considerations for complete denture patients

Kranti Ashoknath Bandodkar, Meena Aras
Department of Prosthodontics, Goa Dental College and Hospital, Bambolim, Goa, India

For correspondence
Dr. Kranti A. Bandodkar, H. No. 346/A, Cavorim, Chandor, Salcete, Goa - 403 714, India. E-mail: shreyacolvenkar@gmail.com

One of the most important factors in the diagnosis of prosthodontic patients is their mental attitude. This is not a mechanical or biological problem. It requires understanding of people and the ways in which they may react to situations. Dentists can use their training in psychology to detect patients' attitudes and reactions during diagnostic appointments. They can then modify their own attitudes and reactions so that mutual confidence can be established. This article reviews the importance of personality in dentist-patient communication and of the psychosomatic component in prosthodontic treatment.

Key words: Communication, personality, psychology, psychosomatic

The success of denture prostheses is related to many factors. These include technical procedures, functional factors, esthetics, biologic determinants and psychological factors. Psychological factors include the preparedness of the patients and their mental attitudes towards dentures, their relationship with and attitude toward the dentist, their intelligence and ability to learn how to use the dentures and their personalities.[1] Prosthodontists must fully understand their patients because such understanding predisposes the patients to accept the kind of treatment they need.

Personality might be called the display window of an individual. It is the part of one’s true self that others may see. This display window can be pleasing and inviting or it may be so unattractive that few care to investigate further what might be within.[2]

De Van stated, “Meet the mind of the patient before meeting the mouth of the patient”. Hence, it is clear that the patient’s attitudes and opinions can influence the outcome of the treatment.

PSYCHOLOGICAL DRIVES[3]

Psychologically, every individual has primary and secondary needs. The basic drive of an individual includes biologically important urges while the secondary drive includes urges that cause an individual to seek psychological satisfaction. The following psychological needs are of special importance to all dentists because these are motivators of patient behavior:

1. An individual needs order and meaning in his life, he dislikes ambiguity or lack of structure. He also seeks explanations which, whether accurate or not, provide a sense of order, control and potential prediction. Man does not always act in a rational manner but he does seek to prove to himself and others that his motives and actions are rational because to face the fact that his behavior is irrational arouses anxiety.
2. An individual needs to feel adequate and competent; he becomes confused and disorganized if he sees his adjustive resources as inadequate to cope with any life situation.
3. An individual needs security; he strives to maintain conditions which assure the gratification of his needs.
4. An individual needs social approval—a sense of belonging and status. He tries to become an approved member of the group with which he wishes to identify.
5. An individual needs love and romance.
6. An individual needs self-enhancement and growth.

In many modern societies, man’s basic (biologic) needs are usually satisfied; therefore he turns his energy to meeting his social and psychological needs and thus strives to actualize his full potentialities.

PERSONALITY TYPES[4-6]

A patient’s satisfaction is strongly related to his personality and to his relationship with the dentist. Dr. M. M. House classified patients’ psychology into four types:

Class I: Philosophical
• Philosophical patients anticipate the need for treatment with dentures and are willing to rely on
the dentist’s advice for diagnosis and treatment.

- These patients will follow the dentist’s advice when advised to replace their dentures.

**Class II: Exacting**

- Exacting patients are usually in poor health and need a great deal of treatment, but they are unwilling to accommodate suggestions from the dentist or physician to extract hopeless teeth and become denture wearers.
- Exacting patients also doubt the dentist’s ability to make dentures that would satisfy their esthetic and functional needs. Often, the exacting patient demands extraordinary efforts and guarantees of treatment outcome at no additional cost.

**Class III: Hysterical**

- Hysterical patients are neglectful of their oral health, dentophobic and unwilling to try to adapt to wearing dentures.
- Although these patients may try to wear dentures, they often fail to use the prosthesis because they expect it to look and function like natural teeth.

**Class IV: Indifferent**

- Indifferent patients tend not to care about their self-image and are not motivated to enjoy eating.
- They have managed to survive without wearing dentures.

Following in House’s path, O’Shea et al. and Winkler described ideal dental patients.

O’Shea et al. characterized the ideal dental patient as:

- **Compliant**
- **Sophisticated**
- **Responsive**

Winkler described four traits that characterize the ideal patient’s response:

1. **Realizes the need for the prosthetic treatment.**
2. **Wants the prosthesis.**
3. **Accepts the prosthesis.**
4. **Attempts to use the prosthesis.** This patient corresponds to House’s philosophical mind patient.

**Sharry’s classification**

- **TOLBUDS:** Patients who could tolerate prosthesis backwards, upside down or sideways.
- **TOLAD:** Patients who could tolerate prosthesis with some degree of adjustment.
- **TOLN:** Patients who could tolerate nothing.

Blum classification

- **Reasonable**
- **Unreasonable.**

Alex Koper described the “Difficult Denture Bird” as a problem denture patient with much experience as a recipient of various kinds of dental therapy. The problem denture patients are individuals who complain, have pain and are hostile, tense, anxious and unhappy people. They often exhibit regressive behavior and transfer many of their fears and frustrations to the mouth and face and endow their dentist with all sorts of unrealistic fantasies: he / she is an angel, a devil, a magician; he can be kind or cruel.

**THE DOCTOR’S BEHAVIOR**

- A warm relationship should be generated at the greeting before the initial interview starts. This is accomplished by empathetic, nonverbal and verbal communications, a skill some doctors have intuitively while others have to acquire them over time.[7]

  1. Shaking hands with a patient is an informative process[8] [Figure 1].
    - The dead-fish handshake certainly might indicate a noncooperative patient without too much interest.
    - The vice-like grip could mean a patient who is insecure and trying to impress the dentist with how well he could use the dentures or one who will concentrate on trying to prove that the dentist could not do a job good enough for him.
    - The patient offering a normal, firm handshake would probably be the easiest to get along with.

  2. The manner in which the patient opens his mouth is an indication of his attitude towards dental treatment[8] [Figure 2].
    - Successful dentists are also successful teachers. They motivate patients to accept the best possible dental treatment by first determining the basic motives that prompted the patients to seek dental treatment. The dentists then, like all effective teachers, prepare a “lesson” incorporating these basic drives within the framework. They direct all their attention and actions towards imparting this information to the patients and stressing its importance.[3]
    - If the patient is distrustful and / or resentful,
the resulting denture will be “contaminated” by those feelings. The consequence is the rejection of the denture as well as the of dentist. On the other hand, if the dentist creates a warm, trusting relationship, the goodwill becomes embedded in the denture, resulting in the patient’s acceptance of it along with acceptance of the dentist. Trust and a warm relationship will override the mechanical and psychological factors that ordinarily create a maladaptive response to the prosthesis.\[7\]

- A dentist attempts to produce the correct motor attitudes in his patient in terms of cooperation, understanding and learning when he confronts a patient in the treatment procedures for denture prostheses. The dentist must take into consideration both the nature of the stimulus aroused by each of his actions in the treatment procedure and the previous experience of the patient with dental care. He she must explain without offending or oversimplifying the nature of their procedures and must also attempt to help the patient integrate these new stimuli with his previous experience or lack of experience.\[8\]

- The most common verbal technique used by persons attempting to deal with others’ problems is the type of reassurance in which problems are simply brushed aside as if they did not exist and patients are told to “just forget it.” This reassurance does not work because the patients still feel as much anxiety as ever.\[3\]

- Each of us desires recognition and attention. Being a good listener is a vital part of patient education. It is through listening and observing that dentists can learn of their patient’s problems and basic motivations. By encouraging their patients to speak freely, not only will dentists better understand their patients’ concepts of dentistry, but they may also quickly become aware of areas needing special education.\[10\]

- Seven basic personality traits are important in successful treatment. Maximum benefits will be obtained only by those who make an honest attempt to search for and address personal shortcomings. They are:\[2\]
  1. Be agreeable.
  2. Be a good listener.
  3. Avoid arguments.
  5. Don’t be egoistic.
  6. Remember names and faces.
  7. Be interested in others.

- In a study conducted on the impact of dental appearance on the appraisal of personal characteristics, subjects with less dental disease were more socially competent, showed greater intellectual achievement and also had better psychological adjustment.\[11\]

**THE PSYCHOSOMATIC COMPONENT IN PROSTHODONTICS**\[12,13\]

The term “psychosomatic” implies the dual character of the disease, wherein the patient’s mind—his psyche, determines the character of the disease of the body. The link between the mind and the body in psychosomatic disorders can be observed in the visceral systems as a function of the changes in the emotional state of the patient.

Emotional conflict brings on anxiety, which results in physiologic symptoms, psychological symptoms or both. These phenomena are illustrated in the following schematic manner:

```
Emotional conflict \(\downarrow\)
Anxiety \(\downarrow\)
Symptoms \(\leftarrow\)
Physiological Psychological
```

The most common disorders, which affect prosthodontic treatment are: (1) circulatory disturbances, (2) respiratory disorders and (3) gastrointestinal disorders.

**Circulatory disturbances**

- Changes in the function of the circulatory system are among the most common of the physiological effects of emotion.
- The common problems of hypertension, vasomotor instability and cardiac disease create functional difficulties in mastering a high level of performance.
in denture function.
• However, there are also nutritional deficiencies when circulation to the mucous membrane is altered during an emotional disturbance. The poor circulation provides poor resistance to abrasion with resultant ulceration of the mucous membrane, which is in contact with the dentures.

Respiratory disorders
• A common physical complaint in psychosomatic patients is shortness of breath or difficulty in breathing. Respiratory changes are a prominent feature in intense emotional states.
• Frequently, asthmatic attacks are encountered. The manipulative procedure during making impressions and jaw recordings during the fabrication of denture prostheses frequently causes shortness of breath, gagging and retching. Patients who gag readily must be firmly but sensitively treated for generally the clinical problems associated with gagging are essentially psychological in character.
• Every effort must be made to allow easy and comfortable breathing during treatment. Attention must thus be directed to providing a patent airway by good chair posture, by bringing the head forward so that gravity carries salivary fluids and impression materials forward out of the mouth and by firm, sympathetic management. Patients should be directed to breathe slowly and deeply and with a regular rhythm.

Gastrointestinal disorders
1. An increase in the bacterial flora of the mouth:
   • Poor hygiene frequently is associated with psychoneuroses and causes interference with circulation and antibody formation in the saliva. Faulty diet is frequently nondetergent in character and coupled with poor masticatory efficacies and promotes and hastens bacterial growth.
   • Patients who are in a depressed state do not maintain good oral hygiene and they may allow masses of debris to accumulate in the buccal folds and on denture surfaces.
   • Oral hygiene instructions will improve the oral health status and, indirectly, quality of life and psychological well-being.[14]
2. Habits which are detrimental to alveolar, bone and mucous membranes:
   • Numerous habits such as pencil-biting, nail-biting, lip-biting, cheek-biting, tongue-thrusting, tooth-tapping, tooth-clenching and grinding are associated with neuroses and frequently cause rapid changes in alveolar bone, ulceration of the epithelium and very frequently, ill-defined pain.
3. Unfavorable dietary intake:
   • Some patients very frequently eat unduly seasoned food because of cultural habits.
   • Other patients may have a poor selection of diet either by choice, because a good diet is not available or because they have poor masticatory function. Patients under tension frequently ingest large amounts of candies, cakes, alcoholic beverages and frequently smoke excessively.
   • These excesses inhibit ingestion of a good diet, which is essential for the maintenance of healthy mucosa and alveolar bone.

Whitehead et al. suggested that psychosomatic symptoms can be divided into:[13]
1. Those associated with abnormal physical changes in organs innervated by the autonomic nervous system (for example, peptic and duodenal ulcers and hypertension).
2. Those influenced by environmental events that possess psychological significance (for example; musculoskeletal or sensory anomalies and hypochondriacal complaints such as chronic pain syndrome).

They further proposed that the major determinants of these conditions were:
1. Abnormal functional learning process and
2. Variation in individual reaction to stressful events.

Whitehead et al. concluded that the three principal etiologic categories of psychosomatic symptoms were:
1. Pathological conditions associated with environmental stressors of a general nature. Temporomandibular joint (TMJ) dysfunction may be a pathologic condition associated with environmental learning. Treatment of stress reactions requires modulation of the effects of stress and includes relaxation, cognitive restructuring and environmental modification.
2. Conditions that arise as a result of classic conditioning. The gag reflex may arise from classic conditioning. Classically conditioned symptoms are usually treated by extinction procedures such as desensitization and flooding.
3. Operantly conditioned symptoms—Denture intolerance may be an operantly conditioned symptom. Operantly conditioned symptoms are alleviated by discontinuing the reinforcement that maintains them.

DENTIST-PATIENT COMMUNICATION AND PATIENT SATISFACTION IN PROSTHETIC DENTISTRY
• To establish satisfactory dentist-patient relationship, the dentist needs to know what may happen to the body of an individual when the mind is disturbed and what may happen to the mind and behavior of an individual when the body is diseased. What
The dentist’s relations with the patient are also extremely important for they help to determine the course of treatment as well as any future attempts at seeking treatment. The dentist, indeed, must be able to separate his / her own feelings and reactions from those of the patient’s if (s)he is to perform his / her services to the patient’s greatest advantage. It would seem that additional emphasis on individual personality characteristics and on interpersonal relations should be placed in training in the dental school.\[15\

• Dentist-patient verbal communication dimensions on patient satisfaction were investigated in a prosthodontic context, controlling for the age and gender of patients and dentists and the extent of prosthodontic treatment delivered. It can be concluded that it is important for the prosthodontic treatment outcome that patients undergoing extensive prosthodontic rehabilitation be given the opportunity to ask and talk about their dental health and that dentists should listen more and talk less during the encounter, at least as far as the present study group was concerned.\[16\

IMPLICATIONS FOR THE DENTAL PRACTITIONER TO COMPENSATE FOR COGNITIVE DECLINE\[17\

With age, we also experience more problems in handling a large amount of new information at one time. Learning requires more time and the information needs to be repeated to be learned. Thus, learning is hampered when information is presented rapidly, exposed briefly and interrupted frequently.

Older patients can certainly learn new techniques in preventive dentistry and home care. They should be fully informed about the treatment plan proposed by the dentist. But, based on the description of cognitive changes with aging described above, the dental team might benefit from some of the recommendations listed below. This will reduce the problems of patient dissatisfaction, noncompliance and potential frustration due to misunderstandings between the dental team and their aged patients.

1. Discuss examination findings and treatment recommendations in a quiet, relaxing setting with no background noise. The dentist’s office is a much better setting for such discussions than the operatory.
2. Structure the message so that it is presented chronologically or in a step-by-step manner. For example, (“Remove your dentures at night, brush them with nonabrasive toothpaste and a medium brush, place the dentures in a cup of tepid water overnight and rinse your mouth.”). Dental treatment planning may be explained best by procedure and sequence (for example, “We will first extract teeth numbers 14 and 15. After this area has healed, we will design a partial denture to replace these teeth). This can be accompanied by a calendar of appointments and what the patient can expect in the interim.
3. Take more time to listen to the complaints of older patients, to discuss dental procedures and even to repeat the message. It is essential to allow more time to explain dental procedures to aged patients. This should include time for clarifying technical terms (note that this often includes such common place dental terms as denture, mandible and periodontal disease for this generation of patients), for allowing the patient to ask questions at each step and for asking the patient to recount specific points. Although the method of active inquiry has proven successful in the classroom, it is unfortunately underused in the dental care setting.

4. Do not present too much information at once. In an attempt to reduce information overload, the dental team must avoid the tendency to give all home care instructions and procedures at one visit. The older person has a greater chance of retaining the information in secondary memory if the technique of successive approximations is used. With this approach, one could explain in one visit procedures for home care of dentures, followed by a description of caring for natural teeth at the next visit. At a subsequent visit, one could review dietary habits and counsel the patient on nutritional deficiencies. Similarly, rather than describing the complete treatment plan at once, the dentist could explain each stage just before it is undertaken.

5. Finally, it helps to use multiple modes of communication. Information presented in a written format and reviewed orally by the dentist with the patient is retained longer than talking to patients or giving them a written message to read “when you get home”. Instead of an appointment card, the patient could be given a calendar for the month with scheduled appointments highlighted on the calendar. In addition to words, symbols to represent the type of appointment (for example, a denture to represent an appointment for a denture adjustment; a toothbrush to symbolize a cleaning appointment) could be used. This approach is also useful for alleviating the problem of reduced information retention due to visual and auditory decline.

CONCLUSION

Dentists must have a sense of real concern for the health, comfort and welfare of the patients to establish
necessary mutual confidence. A “tender loving care” approach towards dental patients should be taken before treatment is started and continued throughout the treatment planning and the treatment itself. We can help patients with psychological problems by acquiring respect for the individual concern and understanding.

REFERENCES


Source of Support: Nil, Conflict of Interest: None declared.