BEHAVIOR ASSESSMENT & MANAGEMENT

- Effective communication (first objective in behavior management) requires behavior assessment.
 - Behavior assessment is based on the understanding of:
 - Motor development Piaget's stages of cognitive development
 - Language development Psychosocial Theory (Erikson)
 - Psychosocial development Learning Theory:
 - Classic conditioning (Ivan Pavlov)
 - Operant conditioning (Skinner)
 - In order to assess behavior, the target behavior first needs to be defined according to behavior rating scales:
 - 1. Frankl Scale
 - 2. Wright's Scale of Cooperative Ability

Frankl Scale	Wright's Scale of Cooperative Ability
++ Definitely Positive	Cooperative
Good rapport, interested & enjoying dental	Relaxed, minimal apprehension, enthusiastic, can be
procedure	treated by simple behavior shaping
+ Positive	Potentially Cooperative
Accepts treatment but cautious	Behavioral problems but has the capacity to
	perform cooperatively with appropriate behavior
	modification
- Negative	Pre-cooperative/Lacking Cooperative
Reluctant to accept treatment	Ability
Definitely Negative	Very young or special needs children.
Refusal of treatment, crying forcefully	

- **Fear**: emotional response to an external threat or danger. This is a preventive response developed to protect the individual from harm and self-destruction. <u>Types</u>:
 - Objective Fear: Direct physical stimulation of the sense organs.
 - Subjective Fear: Feelings and attitudes that have been suggested to child by others.

FACTORS AFFECTING CHILD'S BEHAVIOR IN DENTAL OFFICE

FACTORS OUTSIDE DENTIST CONTROL

Maternal Characteristics		Maternal Attitudes		Sibling Relationship		Sociocultural Factors	
Mother	Child	Mother	Child	Order of Birth	Child	30clocultural ractors	
Loving	Calm & Happy	Over- Protective	Submissive & Shy	First	Anxious	Socioeconomic factors: have	
Hostile	Excitable	Under Affection	Uncooperative	Middle	Outgoing	effect on child's behavior	
Give Autonomy	Friendly & Cooperative	Rejecting	Low self- esteem	Young	Irritable	Cultural & Ethnic factors: each subculture has its own	
Punitive	Lack confidence	Identification	Feeling Guilty			values	

FACTORS UNDER DENTIST CONTROL

		Collect information about child and his/her parents
1 Data Gathering		• •
		Observation begins with noting the child in the waiting room
	Explain to the child	
2	Structuring	Prepare child for each phase of treatment
_	Structuring	Separate procedures into stages
		Prepare child for change in sensation before he will experience it
		Child's attention is focused away from the sensations associated with dental
		treatment, through:
3	Externalization	 <u>Distraction</u>: shift attention from the dental setting
		o Involvement: get child to identify then alter their dysfunctional beliefs.
		Dentist should not be totally engrossed in the technical aspect; dentist should
4 Empathy &	Empathy & Support	be sensitive and responsive to child's feelings.
		Authority must be tempered with a degree of flexibility in order to meet
5	Flexible Authority	needs of particular patient
	-1 0	Educate child and their parents as to what constitutes good dental health
6	Education & Training	Stimulate a behavioral change necessary to achieve these goals.
		Appearance of a white clothed individual would evoke negative behavior in
7	Dentist Attire	children.
		Appointment should be short (because of short attention span) and in early
8	Appointment Time	mornings because children will be more rested and cooperative.
9	Dental Environment	Pleasant environment lowers anxiety levels.
		Anything that is said or done to positively influence the child's behavior
10	Pre-appointment	before child enters the clinic.
	Preparation	 If the first visit is pleasant it paves the road for future successes.
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BEHAVIOR MODIFICATION - ALTER BEHAVIOR ACCORDING TO LEARNING THEORY

Desensitization	Modeling	Contingency Management		
Describe imaginary scenes relevant to his fears in a graduated fashion. Systemic Desensitization reduce anxiety by working through various levels of	 Children acquire favorable responses by watching and listening to people around them. Steps: obtain child attention → retention of observed behavior → motor reproduction depends on child → when reinforced, the observed will be performed. Merits: 	Positive Reinforcers: contingent presentation increases the frequency of behavior Negative Reinforcers: contingent withdrawal increases frequency of behavior (termination of aversive stimulus)		
fear (from least to most) 1. Tell-Show-Do	Stimulate new behavior Facilitate desired behavior	Classification of Reinforcers Material Social Activity		
Approach. 2. Use of age appropriate euphemism language.	 Extinction of fear Models: Older Sibling (Prestige) Younger Patient Multiple Models Modeling film (Vicarious) 	Most Praise, facial Privilege of expression, Nearness, talking, Physical contact		

BEHAVIOR SHAPING - DEVELOP BEHAVIOR BY REINFORCING DESIRED BEHAVIOR

BEHAVIOR MANAGEMENT – **EFFECTIVELY** & **EFFICIENTLY** INSTILL A POSITIVE DENTAL ATTITUDE

1. Voice Control	Physical Restraint (Aversive Conditioning)	3. HOME Technique					
 Loud voice to gain child attention → speak softly Facial expressions must mirror tone of voice 	 Mouth Props: at time of injection or when children become fatigue. Also used in mentally or physically handicapped Parent: child facing forward in mothers lap → one hand of mother on forehead while other on wrist → control movement of infant Sheets & Body wrappings: Restrain techniques (papoose boards, Vac-Pac) to restrict patient movement 	 Indication: normal children who are momentarily hysterical or defiant. Contraindication: very young or immature children, physical, mental, or emotionally handicapped patient. Purpose: gain attention → stop verbal outburst → establish communication. Steps: Hand firmly over mouth When outburst stop, child is told that hand will be removed when he cooperates. 					
	4. Pharmacological Management						
Depends on age, be	ehavior, treatment required, medical conditions, dista	nce traveled, language and education.					
 Forms of intervention: Local Anesthesia – Maximum allowable dose (4.4mg/kg: 2% lidocaine = 20mg/ml; 2.2ml carpoule = 44mg/carpoule) Nitrous Oxide – Conscious sedation is contraindicated in patients with ASA III (patient with severe systemic disease) but can be done for ASA I (normally healthy patient) and ASA II (patient with mild systemic disease) Oral/Nasal Sedation – Sedative agent selected → dose calculated → child is monitored → effect is observed in 30 – 60 mins Intramuscular Sedation – Injection site: a) upper & outer quadrant of gluteal region or b) anterior aspect of thigh (vastus lateralis muscle) or c) Middle of posterior lateral aspect of deltoid muscle → dose calculated & effect observed within 20 mins. IV Sedation – Sedation levels at which patient remains conscious, Benzodiazepine is used and effect observed in 20 – 25 seconds. 							