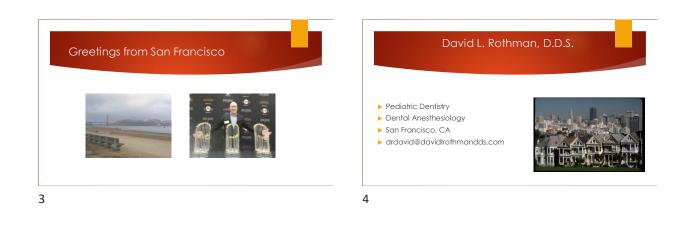
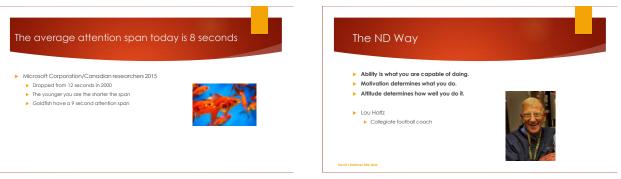


Affirmation and Disclosures

No financial ties to drug or equipment companies to disclose



















The Ten Killer Questions

- "What do you mean that I should have brought my child in between 18 and 24 months?"
 - or: "My pediatrician didn't tell me that."



The Answers

- The AAPD recommends the first visit when the first tooth erupts or sooner
 Provide counseling via risk assessment
- Nutrition and diet review
- Safety check
- Note that the pediatrician may see a child 15 times before the child visits the dentist



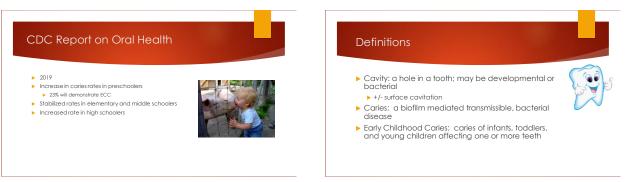
The Answers
General Dentists and Pediatricians need to be trained in identifying and diagnosing oral diseases including hard and soft tissue pathoses
They are part of the team rand fluoride applications
See www.AAP.org/oralhealth

14





15



Early Childhood Caries

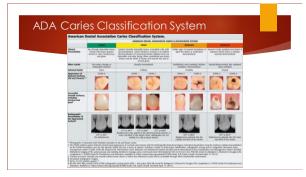
- Early childhood caries (ECC) is the presence of 1 or more decayed (noncavitated or cavitated lesions), missing (due to caries), or filled tooth surfaces in any primary tooth in a child 71 months of age or younger.
- In children younger than 3 years of age, any sign of smooth-surface caries is indicative of severe early childhood caries (S-ECC).
- From ages 3 through 5, 1 or more cavitated, missing (due to caries), or filled smooth surfaces in primary maxillary anterior teeth, or a decayed, missing, or filled score of >4 (age 3), >5 (age 4), or >6 (age 5) surfaces constitutes S-ECC.

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International Caries Detection and Assessment System (ICDAS)



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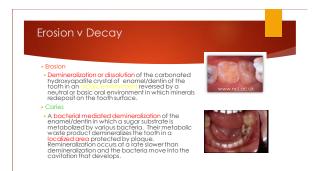
21

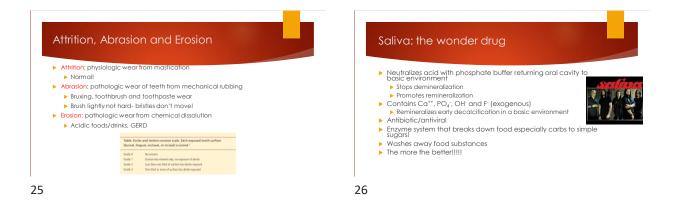
Sugar doesn't cause cavities- acid does!

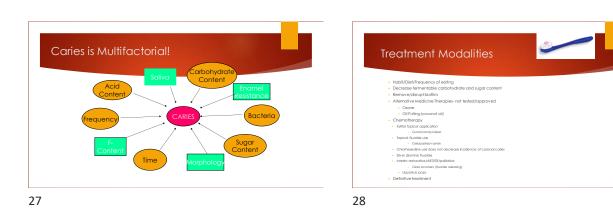
- Mutans strep and Lactobacillus make acid
- ▶ 5 fruits to an 8oz. glass of juice
- Approx. 1 tsp = 5 g sugar
- ▶ 12oz. Soda=39g. of sugar
- ▶ 12oz. JuiceBlast=40g. of sugar
- Carbonic acid/Phosphoric acid/Citric acid
- The two hour rule

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Health Statistics for Children

- Percent of school-aged children 5-11 years of age who are in excellent or very good health: 82%
- Percent of school-aged children 5-11 years of age who missed 11 or more days of school in the past 12 months because of illness or injury: 5.1%
- Percent of children 6-11 years of age who are overweight: 17% (2003-2006)
- Percent of children under 18 years of age without health insurance: 8.9% (2008)
- Percent of children under 18 years of age without a usual source of health care: 5.2%
- Source: CDC

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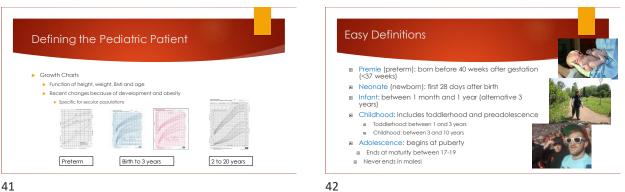


Covid-19 and Children ▶ 4% will show long term effects "long termers" Fatigue ▶ Fog Respiratory issues Covid mouth Exfoliative lesions on attached mucosa Maskne Multisystem Immunodeficiency Syndrome-Covid Autoimmune rapid progressive disease 37

And All Is Peaceful in the Land of Oz



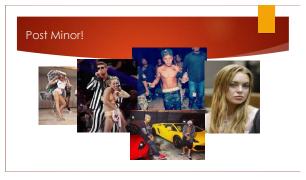




Sc	o, What is a Child?
00	
	Sedation and Anesthesia Guidelines
	AAPD/ASA/AAP
	Under 21 years of age
	▶ ADA
	 12 and under
•	Nelson's Pediatrics
	 Infants, children and adolescents
•	Pediatric Endocrinology
	 Patients up to maturity or less than 18
•	Anesthesiology
	 Physiologically, the 3 year old is more like an adult than an infant
	 Airway anatomy
	Pharmacokinetics
	 Organ function and formation
	It's all about who is defining it





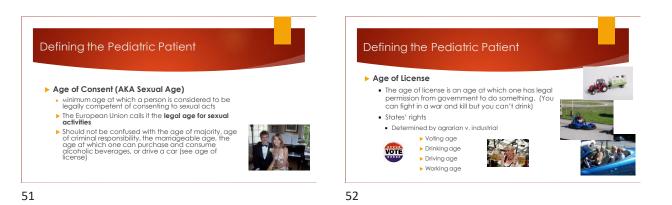


Defining the Pediatric Patient

Age of Majority

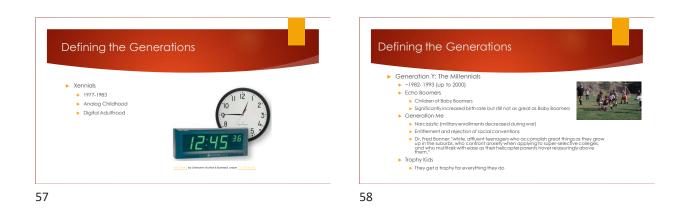
- the threshold of adulthood as it is conceptualized (and recognized or declared) in law.
- the chronological moment when a minor ceases to legally be considered a child and assumes control over their persons, actions and decisions
- terminates the legal control and legal responsibilities of their parents or guardian over and for them.
- Every country is different and ranges from less than 14 to greater than 18 years
 In US all states except AL (19), DE (19), MS (21) and NE(19) and a few that depend on H.S. graduation age recognize 18 as the age of majority

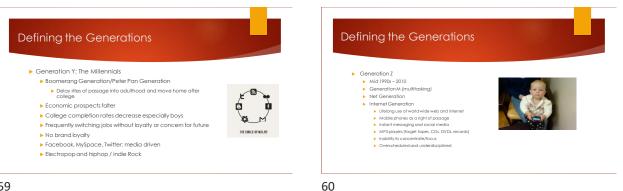
Defining the Pediatric Patient Defining the Pediatric Patient Age of Majority + 3 Emancipation Lawsuits may be filed at age of majority plus three • A child who is legally emancipated by a court of years for discovery (depending on the legal issue) for competent jurisdiction automatically attains his or her damages which occurred as a child when below maturity (majority) upon the signing of the court order. the age of majority. Distinct from the legal process by which a child might be taken into foster care and/or made a ward of the court ▶ Foster care and court wardship do not confer maturity upon her parents (or guardians). the child so separate 49 50





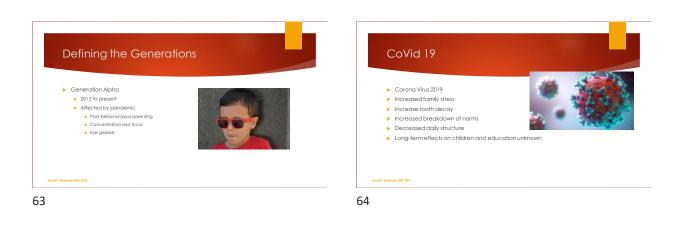








efining the Gener	ations
 Generation Aught 2000-present Double zeros? Zeros? Zeros? Addas? Naughties? 	





Developmental Milestones Developmental Milestones 12-Month Old Developmental Milestones > 24-Month Old Developmental Milestones Vocalize/gestures or speaks words to communicate ► Has vocabulary of at least 20 words Crawls, cruises, or walks Uses two-word phrases Responsive, affectionate or aggressive towards others Can go up and down steps one step at a time Finger feeds, uses cup and spoon independently Can kick a ball Has precise pincer grasp Stacks 5-6 blocks Imitates, shakes, bangs and throws objects Imitates adults Waves bye-bye Can follow 2 step commands Tests permanence (and your nerves) 67 68





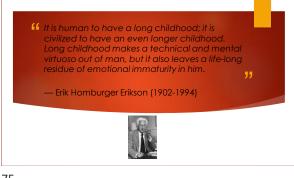
Defining the Pediatric Patient Developmental Stages Adolescence (12-18 yo approx.) Physiologically 2 years rapid falls Unpredictabel d by 3 years Sexual development 73

Defining the Pediatric Patient

 Developmental Stages Adolescence (12-18 yo approx.) Addressence (12-18 yo approx.)
Cognitive
Early
Classify and order objects
Reverse process
Logic Late Abstract reasoning Hypothesis testing



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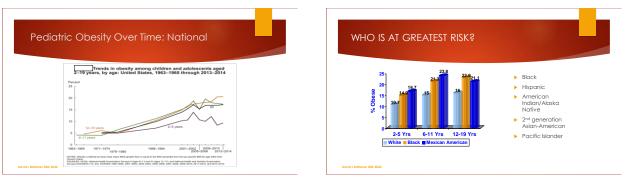






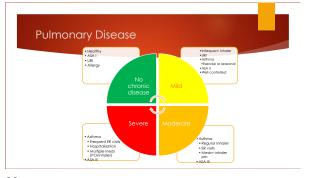
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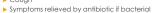






Upper Respiratory Tract Infections Allergic rhinitis

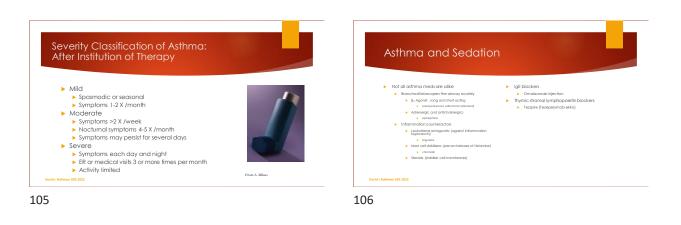


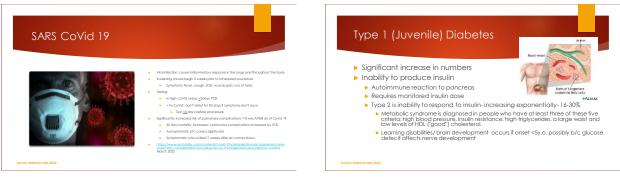




Pulmonary Disease Asthma and Sedation Asthma Higherrisk of complications up to 2 weeks following attack – bronchospasm Small increases in edema of periphery significantly decrease the size of the airway and increase resistance 9-11x 9-11x Barash, P. (2009). Clinical anesthesia (6th ed.). Philadelphia: Lippincott Williams & Wilkins. Bogon, F. (2007). Clinical one sthesis (elih e.d.). Philodephic: Uppincoft Williams & Preparative collimization of medical carce If Phil inhaled () against a radia medical carce If their card of inhaled medical medical carce If characterized in the land medical medical Coster Carlot in the philodecard of a feasible Petersone accelerative target method on a feasible Petersone accelerative teament in copy of a feasible Postpone accelerative teament method or a weak are wen if no wheezing if URI present 11 locit increase in respiratory complications Increased responsiveness of trachea and bronchi to stimuli causing narrowing of the airways Effects 1 of 7 children in the United States Cause of most pediatric hospital admissions Caused by thymic stromal lymphopoetin Molecule associated with airway inflammation Characterized by smooth muscle spasm, airway with edema and mucus hyper-secretion Higherrisk of dental caries 104

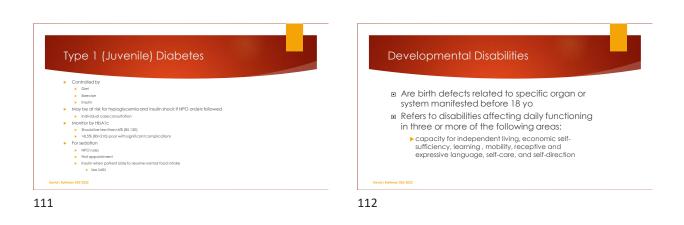














ADD/ADHD and Autistic Spectrum Disorders

Genetic basis

- 25% have relative with spectrum disorder
- May give idiosyncratic reactions to sedative meds
 GABA/chlorine uptake blocking mechanism of the benzodiazepines and loss of inhibition
- Should take ADD meds prior to sedation
- Be careful of herbal medications and chelating agents given by holistic MDs
 - Compete for bonding sites on Cytochrome P450

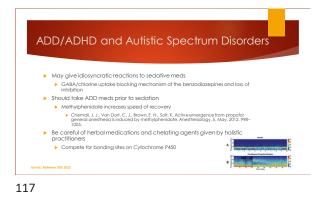
115

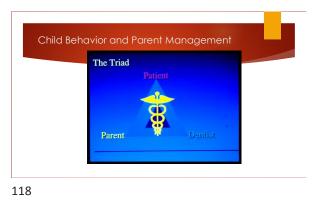
Developmental Disabilities

Attention Deficit Hyperactivity Disorder
 Amphetamines
 Should not be discontinued
 Face of overdase
 HiN, tachycardia, hyperthemia
 Depletion of body catecholamines
 Methylphenidate (Ritalin, Concerta)
 Should not be discontinued

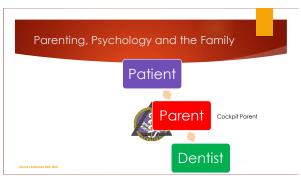
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Parenting, Psychology and the Family Patient Parent Dentist





Parents ask more questions today

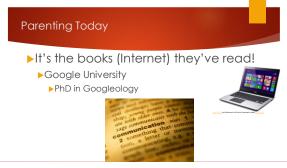
- buying your time and expertise
- informed consumer
- Iay publications
- internet
- don't want to be taken by
- surprise
- want you to think of them as intelligent

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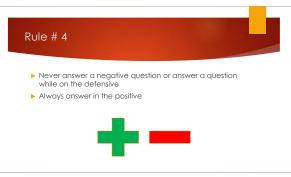












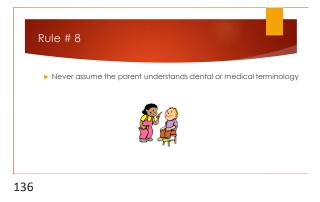


Rule # 6

Remember that you are representing the office









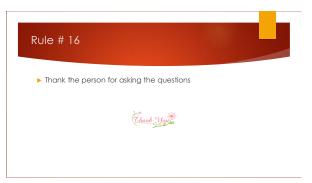














Rule # 18

Try to answer the question the parent is really asking





















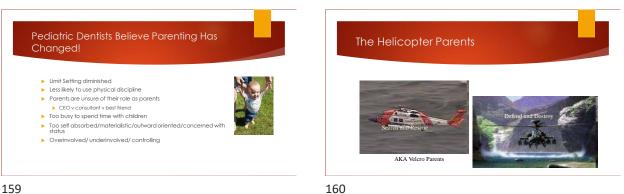
Changes in Practitioner's Management of Patients

Since beginning of practice

Casamassimo.	Wilson	& Gross.	2002
			2002

Management technique	Increased	No change	Decreased
Parents in operatory	64	28	6
Sedations	38	31	31
HOM	1	17	82
Medical Immobilization	7	40	53



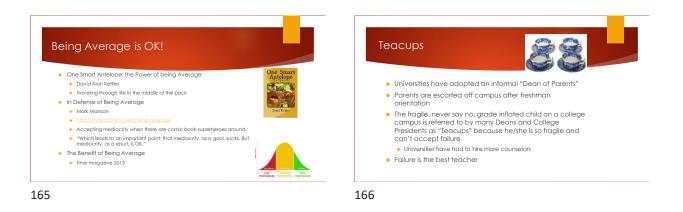


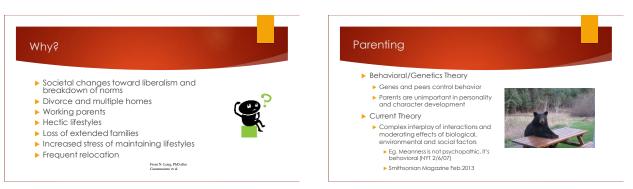






Every Child is Above Average



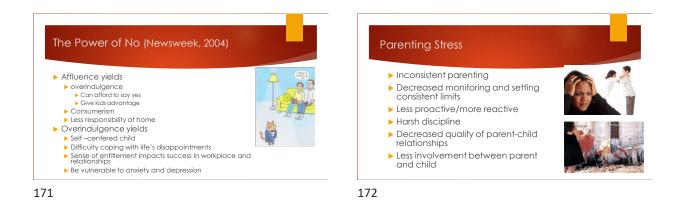




How Much Power?

- Moderated by other variables which affect child's behavior and adjustment
- Eleanor Maccoby, Stanford U., suggests parenting variables account for 20-40% of child outcome









Behavior Management in Children and Especially Parents

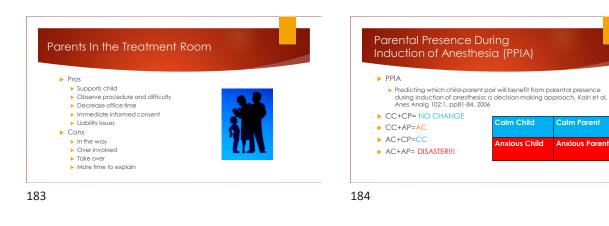
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Choosing the Behavior Management Technique fo Parents Out of the Treatment Room Ma and Pa Family The "model if or brack if" factor The "model" factor Control factor The "model" factor The seed" "scatter The prover the set of the set Family Pros No hindrance therefore faster Only one explanation needed Children may behave better without the parent Behavior management is more immediate Child doesn't perceive harmful situation "save me" Cons Two explanations needed means more time Return to parent for procedural change Child lacks parental support What do you do at the MD? 182





Communication

Still possible!



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Exploration/Modeling







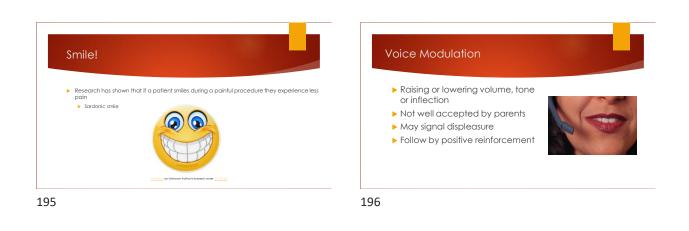
Distraction

- Computer Tablet Distraction in Children Receiving an Injection Sherwood Burns-Nader, PhD, CCLS, Stephanie Atencio, MS, CCLS, Magdalena Chavez; Pain Med (2016) 17 (3): 590-595.
- 41 children, randomized, received injection
- A significant difference was found for pain, both self-reported and observed, and observed emotions. Children receiving distraction using a tablet displayed significantly higher amounts of pain and negative emotions. Gender differences in pain and emotions were found with females having a significantly higher amount of pain and negative emotions.

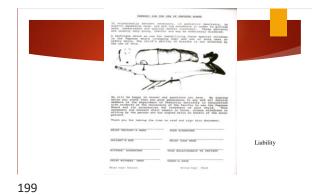
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Another iPad View

- The iPad provides effective distraction for induction of sedation/general anesthesia or reduction of injection pain.
- Also may be more effective than parental presence for reducing anxiety. McQueen A, Cress C, Tothy A. Using a tablet computer during pediatric procedures: A case series and review of the "Apps". Pediatr Emerg Care 2012;28:712-714.





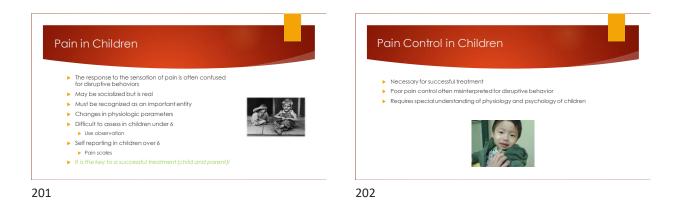


Pain Control in Children

- Necessary for successful treatment
- Poor pain control often misinterpreted for disruptive behavior
- ▶ Requires special understanding of physiology and psychology of children



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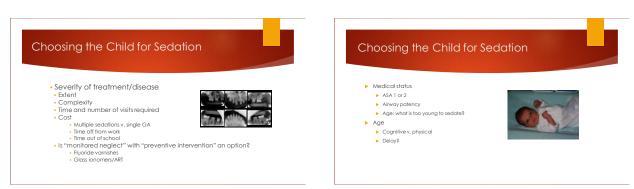
Commonly Used Local Anesthetic Agents Dose Recommendations from AAP/AAPD

Drug	Maximum dose with epinephrine (mg		
	Medical Use	Dental Use	
idocaine	7.0	4.4	
Articaine	7.0	7.0 (4.4)	
Data	rmined by relative vascularity		

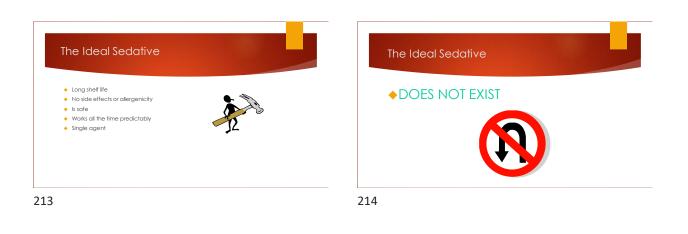
Moore's Rule of 25 Moore's Rule of 25 Moore's Rule of 26 M



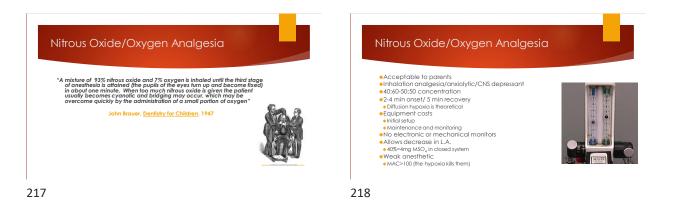




Che Ideal Sedative e. Reduces fear and anxiety in children e. Decreases inhibitory behavior e. Povides ammeil e. Nordes armeit e. Decrease traditive and respiratory tone e. Decrease drawines or sieep e. Saily reversed agent/ for duration of treatment







And The Secret of Pediatric Dentistry Is Finally Revealed! 219



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The End!?!

Or is it just the beginning?

