

• Definition of an obstructive apnea
Obstructive apnea = Cessation of airflow with respiratory effort
For at least 10 seconds OR
For 2 breath cycles in older children OR
For 6 seconds or 1.5 to 2 breaths in infants

EEG

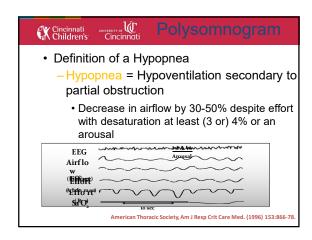
Airflo

W

Effort

W

American Thoracic Society, Am J Resp Crit Care Med. (1996) 153:866-78.



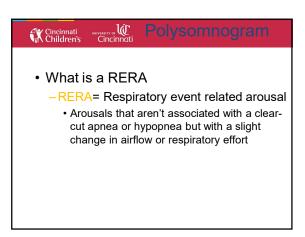
Definition of a central and mixed apnea.
 Central apnea = Cessation of airflow without respiratory effort
 Mixed apnea = Characteristics of both

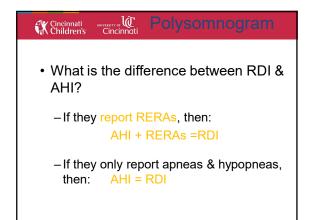
 Obstructive Mixed Central

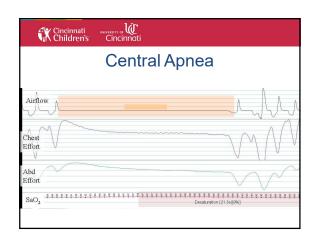
 Mixed The Mixed Central

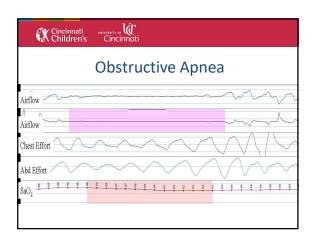
 Mixed Apnea = Characteristics of both

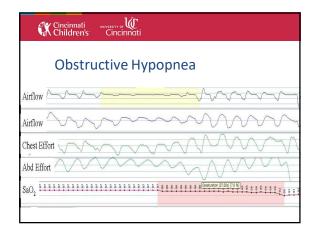
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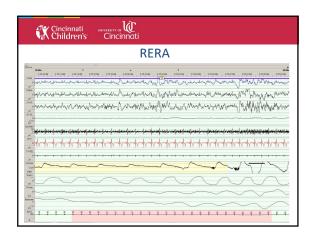


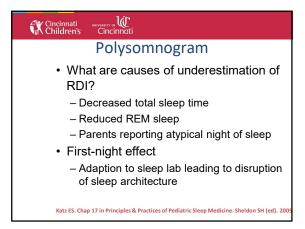


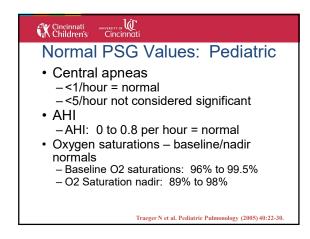


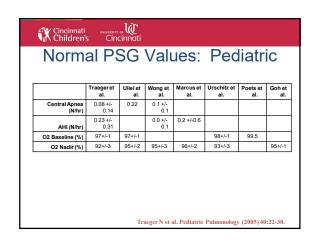


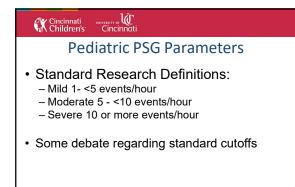


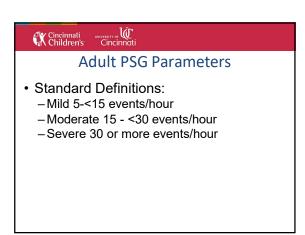


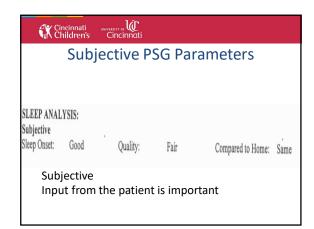


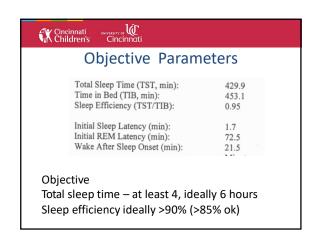


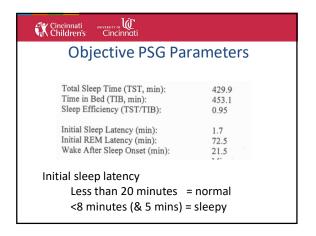


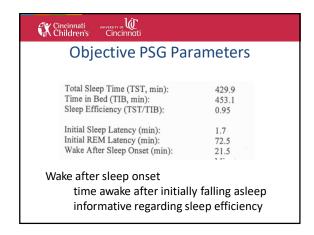


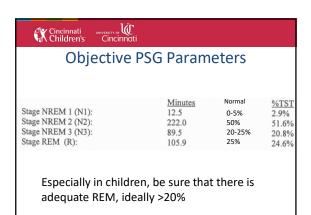


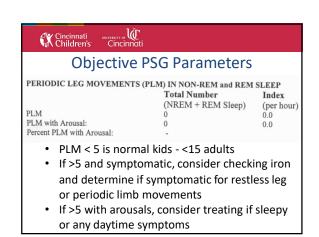


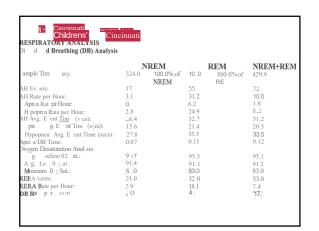


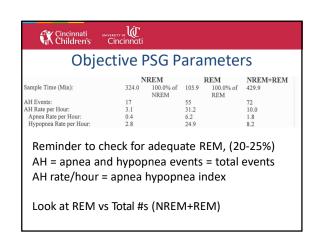


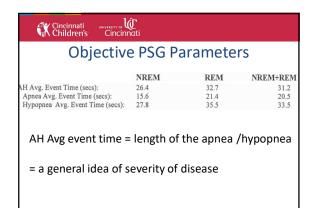


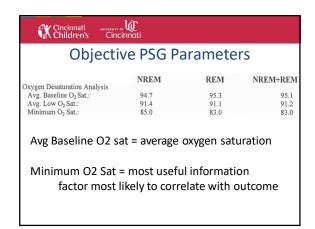


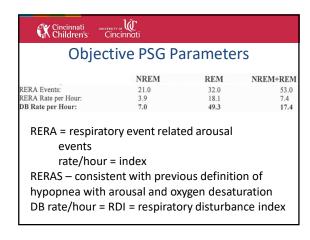


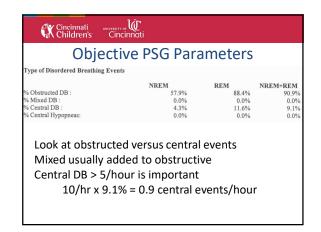


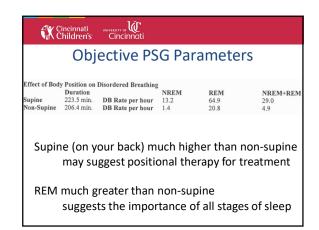






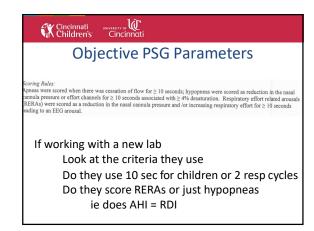


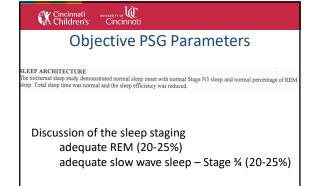


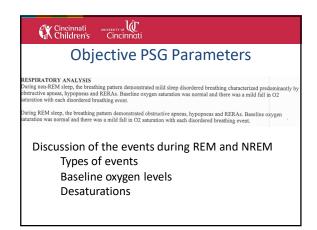


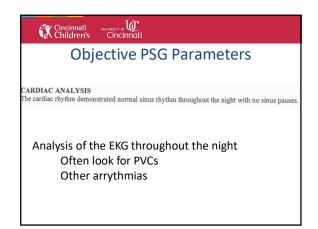


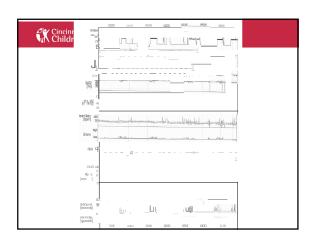


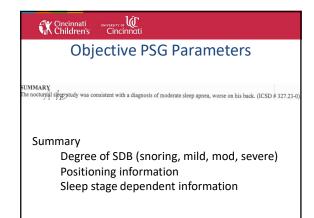


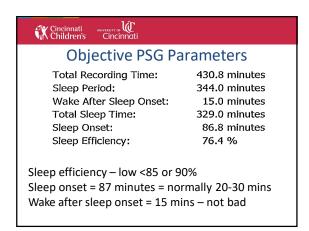


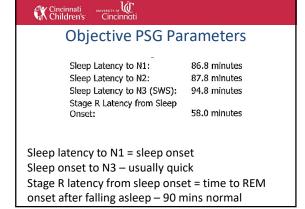


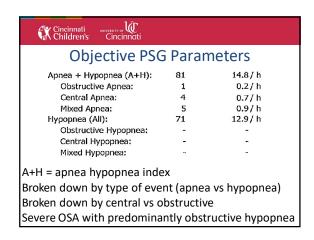


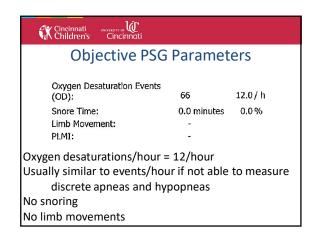


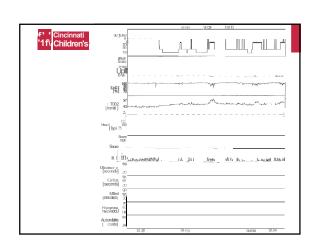


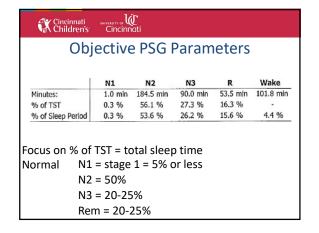












Respiration	Numbe	r %	A or H/h	Supine	Non-Supine	Mean [seconds]	Longest [seconds]
Apnea	10	12.3	1.8	-	-	11.1	16.1
Obstructive	1	1.2	0.2		0.50	10.3	10.3
Central	4	4.9	0.7	-		8.7	10.8
Mixed	5	6.2	0.9		-	13.2	16.1
Hypopnea (All):	71	87.7	12.9	-	2.00	13.2	24.4
Obstructive	-	-	-	-	·		
Central	-		-	-	-	7.0	-
Mixed	-		-			-	-
Total	81		14.8		-	13.0	24.4

Cincinnati Cincinnoti  Objective PSG Parameters								
Respiration	Number in REM	REM Index	Number in NREM	NREM Index				
Apnea	4	4.5	6	1.3				
Obstructive	0	0.0	1	0.2				
Central	2	2.2	2	0.4				
Mixed	2	2.2	3	0.7				
Hypopnea (All):	54	60.5	17	3.7				
Obstructive		_						
Central		-	-					
Mixed		-		-				
Total	58	65.0	23	5.0				

Total 58 65.0 23

Primarily REM disease – common in children
65/hour vs 5/hour

Mostly hypopneas = also common in children

