

Factors and Outcomes

Examining case series studies, although some small Most randomized trials are pilot studies (sample size)

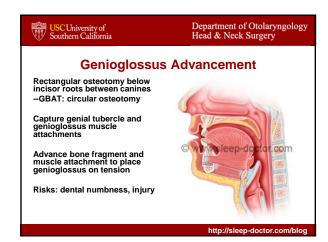
Factors: BMI, preop AHI, cephalogram measures
Outcomes: AHI and "success"

"Success" = 50% reduction in AHI/AI to absolute level no greater than 20/15/5

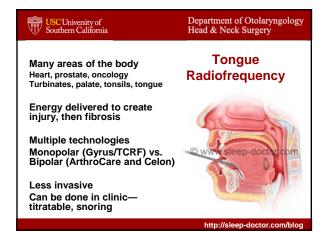
Major oversimplification

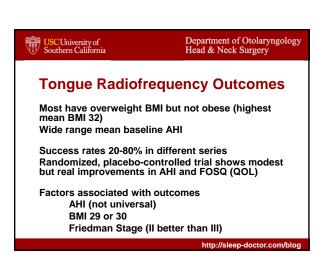
Goal generally to improve OSA/AHI
Other outcomes (sleepiness, QOL)
However, AHI reported widely and enables comparison

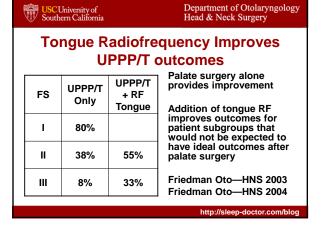


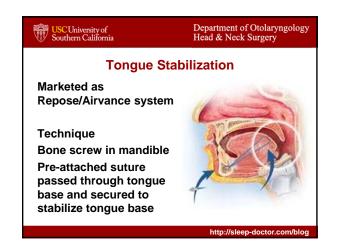


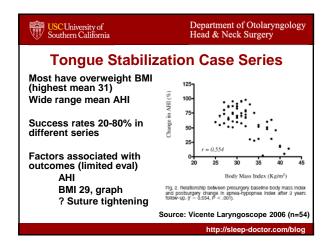
USC University Southern	ersity of California		Department of Otolaryngolog Head & Neck Surgery		
-	ВМІ	Pre AHI	Post AHI	Success (AHI)	Factors
Riley 1994				39% (9/23)	
Johnson 1994		59	14*	78% (7/9)	PAS and MP-H (not statistical analysis
Lee 1999		53	19*	69% (24/35)	
Miller 2004 (GBAT)	30.5	53	16*	67% (7/11)	AHI (better with <4 BMI and AHI
Liu 2005	28.0	62	30*	52% (23/44)	Al < 20; low BMI (<30 sample
Emara 2011	27.5 (all < 30)	41	15*	87% (20/23)	All age < 60 years
Kim 2012	26.8			41% (35/85)	Not BMI but latera cephalogram measu
Hendler 2001 (mortised genioplasty)	32.6	60	29*	48% (16/33)	AHI, BMI <30
dos Santos 2007 (genioplasty)	25.4 (all below 30)	12	4*	70% (7/10)	? BMI (all < 30 in sample)

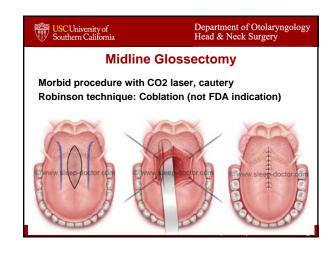


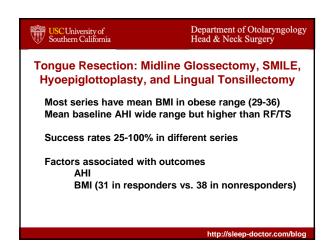


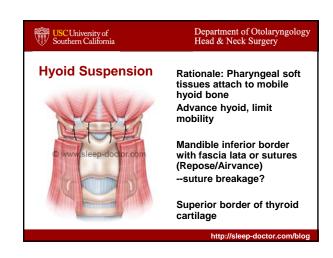




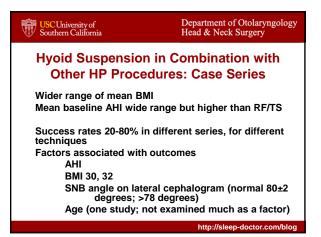


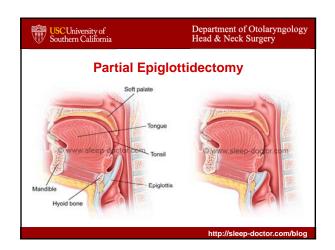


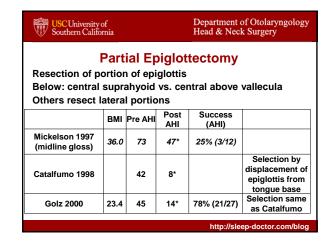


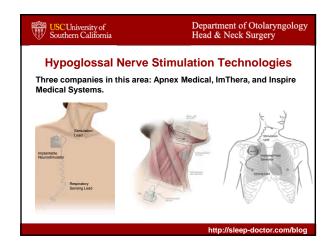


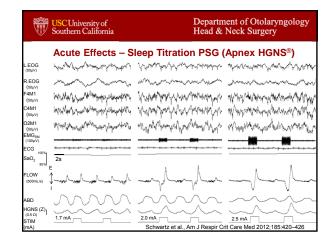
USC University of Southern California					Department of Otolaryngology Head & Neck Surgery		
	Technique	ВМІ	Pre AHI	Post AHI	Success (AHI)	Factors	
Vilaseca 2002	Thyroid	27.8	48.3	29.0*	56% (5/9)		
Neruntarat 2003	Thyroid	29.3	44.5	15.2*	78% (25/32)		
den Herder 2005 (primary)	Thyroid	26.3	33	18*	71% (10/14)		
den Herder 2005 (secondary)	Thyroid	27.7	32	26	35% (6/17)		
Bowden 2005	Thyroid	34.1	36.5	37.6	17% (5/29)	Not AHI or BMI (although high BMI in sample)	
Benazzo 2008	Thyroid	28.2	37	19*	62% (67/109)	BMI (29.1 vs. 27.7), AHI (44 vs. 30) lateral pharyngeal collapse only on MM; excluded those with abnormal cephs	
Baisch 2006	Thyroid	28.2	38	19*	60% (40/67)	Not BMI (graph)	
Gillespie 2011	Mandible (Repose)	32	41	19*	70% (16/23)	Technique (less dissection of hyoid musculature)	

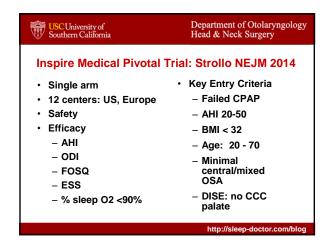


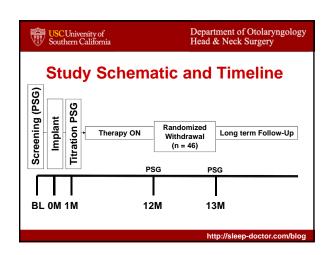




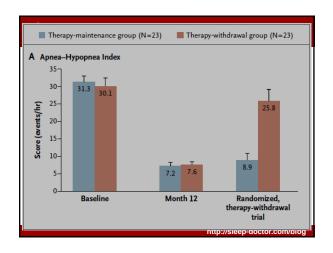




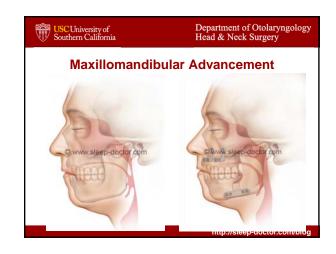


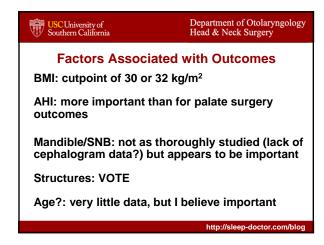


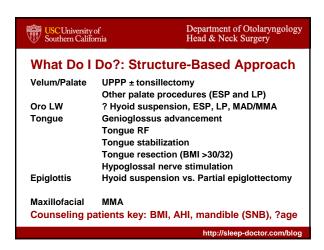
and Proc									
Table 2. Primary and Secondary Outcome Measures. Outcome Measures. Outcome Measures. Outcome Measures. Outcome Measures. Outcome Measures.									
Outcome	Baseline	12 Months	Change	P Value					
Primary outcomes									
AHI score†	32.0±11.8	15.3±16.1	-16.4 ± 16.7	< 0.001					
Median	29.3	9.0	-17.3						
Interquartile range	23.7 to 38.6	4.2 to 22.5	-26.4 to -9.3						
ODI score\$	28.9±12.0	13.9±15.7	-14.6±15.8	< 0.001					
Median	25.4	7.4	-15.7						
Interquartile range	19.5 to 36.6	3.5 to 20.5	-24.0 to -8.6						
Secondary outcomes									
FOSQ score§	14.3±3.2	17.3±2.9	2.9±3.1	< 0.001					
Median	14.6	18.2	2.4						
Interquartile range	12.1 to 17.1	16.2 to 19.5	0.7 to 4.7						
Epworth Sleepiness Scale score¶	11.6±5.0	7.0±4.2	-4.7±5.0	< 0.001					
Median	11.0	6.0	-4.0						
Interquartile range	8.0 to 15.0	4.0 to 10.0	-8.0 to -1.0						
Percentage of sleep time with oxygen saturation <90%	8.7±10.2	5.9±12.4	-2.5±11.1	0.01					
Median	5.4	0.9	-2.2						
Interquartile range	2.1 to 10.9	0.2 to 5.2	-6.6 to -0.3						

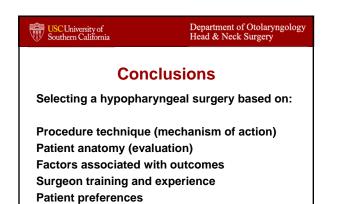












http://sleep-doctor.com/blog

