

S2 Text. Citation matrix

The citation matrices presented below have only included the primary papers that were analysed quantitatively in the four included meta-analyses of this overview to avoid false positive results. The following primary papers have not been included here:

- primary papers of systematic reviews without meta-analysis
- primary papers not quantitatively analysed in systematic review with meta-analysis

The corrected covered area (CCA)[1] was calculated separately for different measurement analyses based on own citation matrix to represent the actual overlapping situation. However, CCA was not calculated for the measurement analyses reported by only one systematic review.

Formula of CCA[1]: $CCA = (N-r)/(rc-r)$

N= number of included publications (including double counting)
r= number of rows (number of index publications)
c= number of columns (number of reviews)

Interpretation of CCA scores[1]:

- 0-5 : slight overlap
- 6-10: moderate overlap
- 11-15: high overlap
- >15: very high overlap

Table 1. Citation matrix of primary papers related to antero-posterior dimension measurement of pharyngeal airway after mandibular setback surgery

		Mattos <i>et al</i> , 2011[2]	Al-Moraissi <i>et al</i> , 2015[3]
Primary papers	Soft palate-pharyngeal wall (MdS)		
	Chen et al, 2007[4]	/	
	Degerliyurt et al, 2008[5]	/	
	Liukkonen et al, 2002[6]	/	
	Muto et al, 2008[7]	/	
	Park et al, 2010[8]	/	
	Soft palate-pharyngeal wall (MdS+ MxA)		
	Cakarne et al, 2003[9]	/	
	Chen et al, 2007[4]	/	
	Degerliyurt et al, 2008[5]	/	
	Jakobson et al, 2010[10]	/	
	Marsan et al, 2009[11]	/	
	Mehra et al, 2001[12]	/	
	Base of tongue-pharyngeal wall (MdS)		
	Chen et al, 2005[13]	/	
	Degerliyurt et al, 2008[5]	/	
	Kawakami et al, 2005[14]	/	
	Kawamata et al, 2000[15]	/	
	Liukkonen et al, 2002[6]	/	
	Muto et al, 2008[7]	/	
	Park et al, 2010[8]	/	
	PNS-pharyngeal wall (MdS+MxA)		
	Cakarne et al, 2003[9]	/	

Chen et al, 2007[4]	/	
Jakobson et al, 2010[10]	/	
Base of tongue-pharyngeal wall (MdS+MxA)		
Degerliyurt et al, 2008[5]	/	
Mehra et al, 2001[12]	/	
Vallecula-pharyngeal wall (MdS+MxA)		
Cakarne et al, 2003[9]	/	
Chen et al, 2007[4]	/	
Jakobson et al, 2010[10]	/	
At minimal pharyngeal space (MdS+MxA)		
Jakobson et al, 2010[10]	/	
Marsan et al, 2009[11]	/	
Nasopharynx (1-jaw vs 2- jaw)		
Chen et al, 2007[4]		/
Hwang et al, 2010[16]		/
Hong et al, 2011[17]		/
Aydemir et al, 2012[18]		/
Kobayashi et al, 2013[19]		/
Oropharynx (1-jaw vs 2- jaw)		
Chen et al, 2007[4]		/
Degerliyurt et al, 2008[5]		/
Hong et al, 2011[17]		/
Aydemir et al, 2012[18]		/
Kobayashi et al, 2013[19]		/

MdS= Mandibular setback

MxA= Maxillary advancement

Table 2. Citation matrix of primary papers related to cross-sectional area (CSA) measurement of pharyngeal airway after mandibular setback surgeries

		He <i>et al</i> , 2017[20]	Mattos <i>et al</i> , 2011[2]	Al-Moraissi <i>et al</i> , 2015[3]
Primary papers	Min CSA (M_{dA} + M_{xA})			
	Hatab <i>et al</i> , 2015[21]	/		
	Azevedo <i>et al</i> , 2016[22]	/		
	Hart <i>et al</i> , 2015[23]	/		
	Kim <i>et al</i> , 2016[24]	/		
	Hsieh <i>et al</i> , 2015[25]	/		
	Level of posterior nasal spine (1-vs 2- jaw)			
	Hatab <i>et al</i> , 2015[21]	/		
	Hong <i>et al</i> , 2011[17]	/		
	Park <i>et al</i> , 2012[26]	/		
	Uesugi <i>et al</i> , 2014[27]	/		
	Level of soft palate (1-vs 2- jaw)			
	Hatab <i>et al</i> , 2015[21]	/		
	Hong <i>et al</i> , 2011[17]	/		
	Zhang R, 2011[28]	/		
	Park <i>et al</i> , 2012[26]	/		
	Uesugi <i>et al</i> , 2014[27]	/		
	Degerliyurt <i>et al</i> , 2008[5]	/		
	Level of epiglottis (1-vs 2- jaw)			
	Hatab <i>et al</i> , 2015[21]	/		
	Hong <i>et al</i> , 2011[17]	/		
	Zhang R, 2011[28]	/		
	Park <i>et al</i> , 2012[26]	/		
	Uesugi <i>et al</i> , 2014[27]	/		

Degerliyurt et al, 2008[5]	/		
Level of nasopharynx (1- vs 2-jaw)			
Degerliyurt et al, 2008[5]			/
Hong et al, 2011[17]			/
Aydemir et al, 2012[18]			/
Level of oropharynx (1- vs 2-jaw)			
Degerliyurt et al, 2008[5]			/
Hong et al, 2011[17]			/
Aydemir et al, 2012[18]			/
Level of hypopharynx (1- vs 2-jaw)			
Hong et al, 2011[17]			/
Aydemir et al, 2012[18]			/
Level of soft palate (MdS+MxA)			
Degerliyurt et al, 2008[5]		/	
Jakobson et al, 2010[10]		/	
Level of tongue base (MdS)			
Degerliyurt et al, 2008[5]		/	
Park et al, 2010[8]		/	
Level of tongue base (MdS+MxA)			
Degerliyurt et al, 2008[5]		/	
Jakobson et al, 2010[10]		/	

MdS= Mandibular setback

MxA= Maxillary advancement

Table 3. Citation matrix of primary papers related to volumetric measurement of pharyngeal airway after mandibular setback surgeries

		He <i>et al</i> , 2017[20]	Chris2tovam <i>et al</i> , 2015[29]
Primary papers	Total upper airway volume (MdS)		
	Zhang R, 2011[28]	/	
	Hatab et al, 2015[21]	/	
	Park et al, 2012[26]	/	/
	Kim et al, 2010[30]	/	/
	Wang et al, 2015[31]	/	
	Uesugi et al, 2014[27]	/	/
	Hong et al, 2011[17]	/	/
	Park et al 2010[8]	/	/
	Wang et al, 2012[32]		/
	Total upper airway volume (MdS + MdA)		
	Hong et al, 2011[17]	/	/
	Burkhard et al, 2014[33]	/	
	Hatab et al, 2015[21]	/	
	Kim et al, 2014[34]	/	
	Park et al, 2012[26]	/	/
	Uesugi et al, 2014[27]	/	/
	Azevedo et al, 2016[22]	/	
	Zhang R, 2011[28]	/	
	Li et al, 2014[35]	/	/
	Jakobsone et al, 2010[10]	/	/
	Hart et al, 2015[23]	/	
	Gockce et al, 2014[36]	/	/
	Kim et al, 2016[24]	/	
	Hsieh et al, 2015[25]	/	
	Bruneto et al, 2014[37]		/

	Kim et al, 2013[38]		/
	Lee et al, 2009[39]		/
	Panou et al, 2013[40]		/
	Nasopharyngeal volume (1- vs 2-jaw)		
	Park et al, 2012[26]	/	
	Hatab et al, 2015[21]	/	
	Zhang R, 2011[28]	/	
	Uesugi et al, 2014[27]	/	
	Oropharyngeal volume (1- vs 2-jaw)		
	Park et al, 2012[26]	/	
	Hatab et al, 2015[21]	/	
	Zhang R, 2011[28]	/	
	Uesugi et al, 2014[27]	/	
	Hypopharyngeal volume (1- vs 2-jaw)		
	Park et al, 2012[26]	/	
	Hatab et al, 2015[21]	/	
	Zhang R, 2011[28]	/	
	TOTAL volume (1- vs 2-jaw)		
	Park et al, 2012[26]	/	/
	Hatab et al, 2015[21]	/	
	Zhang R, 2011[28]	/	
	Uesugi et al, 2014[27]	/	/
	Hong et al, 2011[17]		/

CCA= (56-43)/(43*2-43) X 100% =30.23% (very high overlap)

MdS= Mandibular setback

MxA= Maxillary advancement

Table 4. Citation matrix of primary papers related to measurements of lateral width of pharyngeal airway at base of tongue after mandibular setback surgeries

		Mattos <i>et al</i>, 2011[2]
Primary papers	Degerliyurt et al, 2008[5]	/
	Kawamata et al, 2000[15]	/

Table 5. Citation matrix of primary papers related to measurements of pharyngeal airway after BSSO versus VSSO surgeries

		Al-Moraissi <i>et al</i>, 2015[3]
Primary papers	Kitahara et al, 2010[41]	/
	Abdelrahman et al, 2011[42]	/

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