

THE MERKEL-WALSH & OVERLAND TOTs PROTOCOL

Assessment

KEY

- O = observed
- R = Remarkable
- WNL = within normal limits
- N/A = not applicable

First Name			
Last Name			
Date Birth			
Address			
Home		Cell	
Email			
CPT4			
Diagnosis			

Appearance and Structure

Labial frenulum maxillary

normal abnormal

Color:	Elasticity:
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Location:	Kotlow classification:				
	Class I:	Class II:	Class III:	Class IV:	
Notes:					

Labial frenulum mandibular

normal abnormal

Color:	Elasticity:
Blanching upon depression of the lower lip yes no	
Location:	
Notes:	

Buccal frenulum

normal abnormal

Color:		Elasticity:	
Blanching upon elevation/depression of the upper lip?			
<p>yes no</p>			
Location			
Upper right:	Upper left:	Lower right:	Lower left:
Notes:			

Lingual frenulum

normal abnormal

Color:		Elasticity:				
Location:		Coryllos & Genna classification:				
		Type 1:	Type 2:	Type 3:	Type 4:	Type 5:
		Kotlow Rating Scale:				
		Class I:	Class II:	Class III:	Class IV:	
Notes:						

Facial features

Bone Structure	Notes:	Side Profile	Notes:
Mesocephalic (normal)		Straight	
Dolichocephalic (narrow angles)		Convex	
Brachycephalic (wide angles)		Concave	
Symmetrical		High nasiolabial angle	
Asymmetrical		Airway	
High palate		Tonsils	
Wide palate		Adenoids	
Narrow palate		Uvula	
Flat palate		Nostrils/Nasal Airway	
Clefting			

Dentition

	Notes:		Notes:
Class I		Open bite	
Class II		Diastemas	
Class III		Loose teeth	
Overbite		Missing teeth	
Underbite		Crowding	
Overjet		Gingival issues	

Orthodontic appliances		Tooth decay	
Inversion of teeth		Plaque buildup	

Function

Range of motion

	Notes:		Notes:
Lip closure		Lingual retraction	
Lip protrusion		Lingual lateralization	
Lip rounding		Tongue-tip elevation	
Lip retraction		Tongue-tip depression	
Lingual protrusion		Back-tongue side spread	
Lower-lip retraction		Additional	
N = nonspeech oral imitation		F = facilitated	

Pre-Feeding

Reflexes	Notes:
Rooting reflex	
Suck reflex	
Suck-swallow reflex	
Phasic bite reflex	
Lateral tongue reflex	
Gag reflex	

Pre-Feeding Skills	Notes:
Lip closure (pre-feeding for spoon and cup)	
Lip rounding (pre-feeding for breast/bottle/straw)	
Nonnutritive repetitive lateral bite (pre-feeding for chewing)	
Tongue protrusion (pre-feeding basic suck)	
Tongue retraction (breast/bottle/spoon/cup/straw/solids)	
Tongue lateralization (moving a bolus)	
Tongue-tip elevation and depression (mature swallow/true suck)	

Feeding

Skill	Notes:
Breast-feeding	
Bottle-feeding	
Spoon-feeding	
Introductory solids	
Cup-drinking	
Straw-drinking	
Advanced solids	

Articulation

Placement	Phoneme	Buccal TOTS	Labial TOTs	Lingual TOTS
Lip closure	m			
	b			
	p			
Tongue retraction with blade elevation	n			
	d			
	t			
Tongue retraction with back elevation	ʒ			
Lip rounding	w			
Lower-lip retraction	f			
	v			
Low jaw	h			
Tongue retraction with back elevation and blade/tip down	k			
	g			
Tongue retraction with lip elevation	l			
Tongue retraction with tip elevation/depression slight protrusion	s			
	z			
Tongue side spread lip protrusion	ʃ			
	tʃ			
	dʒ			
Tongue retraction with side spread and lower-lip tension	r			
Tongue protrusion	θ			
	ð			

Additional Concerns

	Notes:		Notes:
Breathing		Allergies	
Oral rest posture		Nasal congestion	
Oral habits		Ear infections	
Sleeping		Airway	