
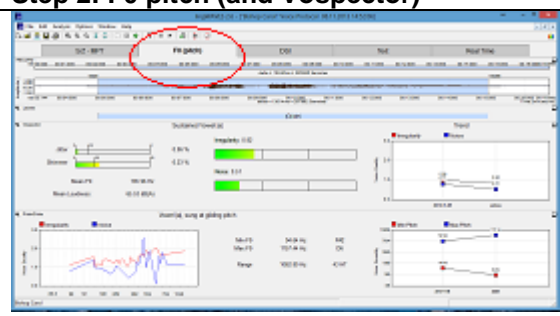





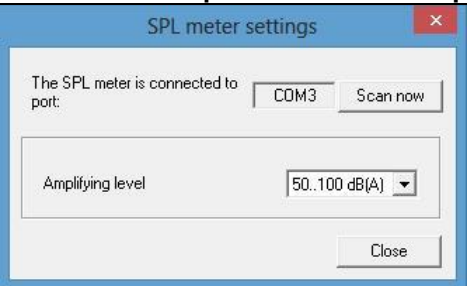
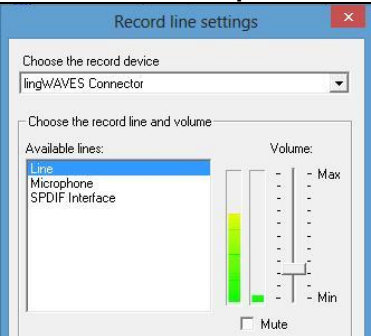
LINGWAVES VOICE PROTOCOL CHEAT SHEET

First watch the Video Tutorial at <http://www.mmsp.com.au/lingwaves-voice-protocol/>

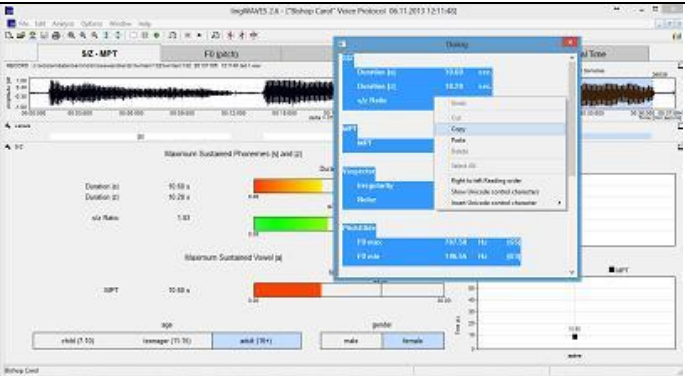

Assessment Procedure Steps	Tasks	Instructions	Measures
Step 1: S/Z - MPT			
	s-z ratio	Record, highlight and label "Say the sound /s/ for as long as you can" (SP demonstrates). "Say the sound /z/ for as long as you can" (SP demonstrates)	<ul style="list-style-type: none"> s/z ratio
	Maximum phonation time	"Take a deep breath and say the sound /a/ as long as you can in your usual speaking pitch and loudness"	<ul style="list-style-type: none"> Maximum phonation time
Step 2: F0 pitch (and Vospector)			
	Sustained phonation	"Hold the sound /a/ as steady as you can, in your typical voice, until I nod for you to stop." Hold for 3-5 sec each. (Can repeat task and record "ee" for perceptual analysis)	<ul style="list-style-type: none"> Mean F0 Mean dB Jitter Shimmer Irregularity Noise RBH severity
	Pitch glide	"Glide from the lowest to the highest pitch you can reach using the vowel sound /a/, then-glide from the highest to lowest pitch you can using sound /a/" (Can breathe between) Clinician demonstrates, pt repeats (can practice)	<ul style="list-style-type: none"> F0 max F0 min Range (Hz and in semitones)
Step 3. DSI			
	Lowest loudness	"Hold on to /a/ at starting in your normal voice and then go down to your quietest voice without whispering"	<ul style="list-style-type: none"> Lowest loudness (dB) Dysphonia Severity Index (DSI) and impairment scale of 1 - 5.
Step 4. Text			
	Paragraph reading: Rainbow Passage	"Read this paragraph aloud in your typical speaking voice."	<ul style="list-style-type: none"> Mean F0, F0 variation Mean loudness, loudness variation in running speech
Step 5. Realtime - Pitch and Loudness			
	Choose your own tasks	You can also use this screen for visual feedback in therapy tasks	
	Suggestion: CAPE-V Sentences	<i>Read the following:</i> The blue spot is on the key again. How hard did he hit him? We were away a year ago. We eat eggs every Easter. My mama makes lemon jam. Peter will keep at the peak.	Highlight to measure: <ul style="list-style-type: none"> Pitch SPL Loudness Duration
	Suggestion: Conversation sample	"We now want a sample of your everyday speaking voice. Can you tell me about a recent holiday / what your favourite TV show is/ what you think of your voice?"	

CHECKLIST - BEFORE YOU START

First watch the Video Tutorial at <http://www.mmsp.com.au/lingwaves-voice-protocol/>

1. SPL Meter Mic	Plug in and switch on the SPL Mic before you open lingWAVES
2. Open a Voice Protocol Session	<ol style="list-style-type: none"> 1. Insert your USB WEVOSYS system Dongle. 2. Start lingWAVES from the desktop icon or your program list. 3. Open Client Manager (icon of a person's head on top taskbar) 4. Select your client or make a new client (use pencil icon on top right) 5. Click on the new file icon on top taskbar and open a new Voice Protocol session from the drop - down list.
3. Check data input from USB COM port	
	<ol style="list-style-type: none"> 1. Click on Options on the top taskbar 2. Select "SPL Meter" 3. Make sure you see COM and a number. 4. If not press Scan now 5. If still no COM, the mic is not on, the cable is not plugged in or the Cable driver is not installed (see installation notes)
4. Check the Microphone Audio Input	
	<ol style="list-style-type: none"> 1. Click on Options on the top taskbar 2. Select "Record Line" 3. Make sure you the record device is "lingWAVES Connector" 4. Make sure the record line is "Line" 5. Adjust the volume so it doesn't go red when you say AH quite loudly. (you may need to put it up again after the first task as the recording level is set higher on the first Step to get a good trace of "S")

PRINT YOUR REPORTS

1. Paste assessment results into your reports	
	<ol style="list-style-type: none"> 1. Click on the Stats icon on the top right of your screen. (looks like coloured bars) 2. A Dialog box comes up with text of all the results data from your assessment. 3. Copy and past this into your reports.
2. Print a full Voice Protocol report	
	<ol style="list-style-type: none"> 1. Click on the "Print" icon on the top task bar. 2. A print screen comes up. 3. Preview your report 4. Add your clinic's information to the footer (optional) 5. Print. 6. If you have Adobe Acrobat writer you can also save it as a pdf by selecting Print to pdf.