

Supplemental Table S3. Detailed definitions of each outcome in the study.

<i>Outcome</i>	<i>Definition</i>
Patients’ preferences	Patients were asked to choose which device they prefer after trying two devices in each study.
Devices’ lifetime	How long device still being functionally used without complications.
Devices’ replacement	Device frequency times to be replaced by patients due to complications.
Maximum phonation time	Measurement of respiratory and sound control.
Leakage	Fluids that come out through or around voice prosthesis (VPs).
HME	Extra parts for VPs used after TL to help reduce breathing restrictions and compensate nasal functions.
Airflow resistance	Resistance of the respiratory tract to airflow during inhalation and expiration.
Speech rate	The speed of speaking.
Increased phonatory effort	The effort that results in vocal fatigue and decrease in phonatory capabilities.
Fundamental frequency	The lowest frequency of a periodic waveform.
Voice loudness	Attribute of auditory sensation in terms of which sounds can be ordered on a scale extending from quiet to loud.
Speech intelligibility	The measure of how comprehensible speech is in given conditions.
Stoma stenosis	Narrowing or constriction of the stoma or its lumen.
Dislodgement	To move or go from a dwelling or former position.

Fistula problems	Any complication linked to fistula.
Granulation	The process of forming grains or granules from a powdery or solid substance, producing a granular material.