



Grant Funding Research Update: December 2016

Study: VoCAL- PD Study

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At the end of the 2016 the following progress had been achieved:

- Eighteen (18) PD patients with vocal fold atrophy have been treated with injection laryngoplasty without complications and reported good result after injection.

Completed work:

Redcap database is created finalized and data input started

Per the protocol, we have collected the data of 9 out of the 18 patients: demographic information, EAT-10, VHI-10, Glottic closure/open time, binary assessment by 3 speech therapists.

Glottic closure during phonation was measured on videorecording from a stroboscopic examination as a ratio of number of frames in open phase vs closed phase (number of frames in closed phase divided by total number of frames in both phases = % of time spend in close phase)

Summarized preliminary demographic data (9 patients):

Subject	Age	Gender	Time from PD Onset in Years
1	80	Male	10
2	77	Male	16
3	74	Male	10
4	68	Female	19
5	72	Male	6
6	76	Female	41
7	61	Female	15
8	80	Male	11
9	76	Male	31



Results:

- All the 9 patients reported subjective improvement after injection.
- EAT scores improved by 3.6 points.
- VHI-10 scores improved by 5 points.
- Eight out of 9 subjects improved based on blinded binary assessment of pre-recorded, de-identified speech samples by one speech therapist, the other assessments are in progress

Work in progress:

- Preparing the STs training for the blinded assessments of CAPE-V, speech intelligibility and supraglottic constriction (concordance training)
- Collecting data of the rest of the study patients who already undergone procedure
- Continued enrollment of more subjects
- Providing long term treatment for those subjects who demonstrated improvement after short term injections