| Study | Design | Analysis | Results | | | | Validity/ Conclusions |
|------------------------|------------------------------|--------------------------------------|--|--------------------|--------------------|--------------------|--------------------------|
| Tan et al. 2013 | Inclusion criteria: | Tested for | •4 of the 7 trials were guasi-randomized | | | | The meta-analysis |
| ran et al, 2010. | •Clinical trials including | homogeneity? | •3 trials compared NMES combined with traditional therapy (TT) ve | | | | included 7 small to very |
| Study type: | RCTs and quasi | Yes | | | | | small trials 4 of which |
| Meta-analysis | experimental trial comparing | 100. | The TT econione were 20 minutes or one hour at a frequency of 5 | | | | were quasi-randomized |
| weta anarysis. | NMES vs. traditional therapy | Analysis method | • The TT sessions were so minutes of one nour at a frequency of 5 | | | | Four of the seven |
| Aim | for adult nations with | Both the fixed, and | NMES was applied for 1 hour /dou in 6 studies and 20 min in and | | | | studies included bad |
| To assess the overall | dysphagia of any etiology | random-effect | •NMES was applied for 1 hour /day in 6 studies and 30 min. In one | | | | high risk of bias and |
| efficacy of | •The transcutaneous | | | the rest had their | | | |
| | electrodes placed on the | lifed were | For stroke patients. | | | | limitations. The meta- |
| | neck | useu. | •In 4 studies the duration of dysphagia from onset was >20 days, 3 | | | | analysis had generally |
| (NMES) in dysphagia | •Outcome is a measurable | Sonsitivity | months, and 6 months. | | | | valid design and |
| (NNEO) III Uyspilagia | dependent variable | analveie | •Variable scales were used for outcomes including: FOIS, SFSS, | | | | |
| | dependent variable. | Voc | ASHA NOMS, and MDADI. | | | | |
| traditional thorapy | Exclusion critoria: | 165. | | | | | |
| traditional therapy. | Non concurrent clinical | Pooled results for swallowing scores | | | | ng scores | is only as good as the |
| Primary outcomo: | enon-concurrent cimical | | | NMES | Traditional | Standard mean | is only as good as the |
| •Functional Oral | NMES electrodes not placed | | | N subjects | therapy | difference (SMD) | studies it includes. |
| | on the enterior pack | | All otiologios (7 | ((studios) | N Subjects | | |
| Swellow Eurotional | Of the anterior neck. | | All studios | 175 | 116 | 0 77 (0 13 1 /1) | |
| -Swallow Functional | •Studies involving children. | | Sonsitivity | 112 | 80 | 0.50 (0.20 0.80) | |
| Sconng System | Data autracted by 2 ar | | analysis 1* | 112 | 00 | 0.00 (0.20,0.00) | |
| (SFSS), | | | Sensitivity | 102 | 70 | 0.46 (0.15.0.77) | |
| •American Speech- | More reviewers? | | analysis 2 ** | | | 0.10 (0.10,0.17) | |
| Language-Hearing | res. | | Stroke (4 studies) | | | | |
| Association National | Addressed nublication | | AI 4 studies | 103 | 72 | 0.78 (-0.22, 1.78) | |
| Outcome | Addressed publication | | Non-stroke : Ca | ancer and Parkin | son's disease (3 s | studies) | |
| | | | | 72 | 44 | 0.74 (0.17,1.30) | |
| System (ASHA | NO. | | *Excluding Freed study that had more superior outcomes | | | | |
| NONS), and | Evolution of study | | ** Excluding studies with obvious methodological flaws | | | | |
| •M.D. Anderson | Evaluation of study | | | | | | |
| Dysphagia inventory | quality: | | No complications | were reported. | | | |
| (MDADI). | Yes. | | | | | | |
| a a such a | | | | | | | |
| search: | | | | | | | |
| 1996-2011. | | | | | | | |
| N of studios | | | | | | | |
| included. | | | | | | | |
| N-7 studios with s | | | | | | | |
| total of 201 notionta | | | | | | | |
| iotal of 291 patients. | | | | | | | |
| | | | | | | | |