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| Nuts & Bolts of Semi–Occluded Vocal Tract Exercises in Voice Therapy: The Why, When, and How Marci D. Rosenberg, M.S. CCCUniversity of Michigan |  |  |
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| OverviewTraditional voice therapy exercises use a multitude of semi –occluded vocal tract exercises to enhance voice production. Several variations of these exercises will be introduced in a workshop format.ObjectivesThe goal of this presentation is to:* Provide and overview of the theoretical basis and physiology behind semi-occluded VT exercises
* Introduce several variations of these exercises including why, when and how to use them in voice therapy.

Semi-Occluded exercises (high resistance to less resistance)1. Use of straws & tubes
2. Fricatives
3. Resonance hums
4. Closed vowels

Adaptations & Variations1. Wave in a Cave
2. Straws and water bottles
3. /o/ buzz- inverted megaphone
4. Card kazoo
 |  | MaterialsThe following are a list of helpful items to use in voice therapy:* Stirring straw
* Drinking straw
* Styrofoam cup

ResourcesPrincipals of Voice Production (1994) Ingo Titze , Prentice Hall Vocology The Science and Practice of Voice Habilitation (2012) Ingo Titze & Katherine Verdolini Abbott, NCVSNonlinear source-filter coupling in phonation: Theory. (2008) Journal of the Acoustical Society of America, 123 (5), 2733-2749Voice Training & Therapy With a Semi-Occluded Vocal Tract (2006). Journal of Speech, Language , and Hearing Research, 49, 448-459 Exercises for Voice Therapy 2nd Ed (2013), Behrman & HaskellNational Center of Voice and Speech website- <http://www.ncvs.org>Marci D. Rosenberg- marcied@umich.edu |