Transgender Voice Therapy

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“You may shoot me with your words,
You may cut me with your eyes,
You may kill me with your hatefulness,
But still, like air, I’ll rise....”
~Maya Angelou

Terms

• Gender Identity Disorder (GID)
  – “A diagnostic category referring to individuals with a preoccupation to live as a member of the other sex”
  – DSM IV
• Transgender (TG)
  – “One’s psychological gender does not match one’s anatomical gender”
• Transsexual (TS)
  – “A person whose external genital anatomy has been changed to resemble that of the opposite sex”
• Passing
  – “The ability of a TG or TS to be perceived by others as belonging to the target gender group”

(King, Lindstedt, Jensen, & Lee, 1999)
Terms continued

- **FtM**
  - A person seeking to transition from their birth female gender to the male gender
- **MtF**
  - A person seeking to transition from their birth male gender to the female gender
- **Ambigenderous / Bigender**
  - A person who blends characteristics from both gender roles and identities

(King, Lindstedt, Jensen, & Law, 1999)

Etiology

- Unknown
- Possible involvement of the bed nucleus of the stria terminalis (BST) in the hypothalamus
- Literature suggests that males raised as females due to ambiguous genitalia, penile ablation, or agenesis, expressed gender dysphoria or reported identifying more with males
- Gender identity is not chromosomal

(Safer & Tangpricha, 2008)

The Standards of Care for Gender Identity Disorders

- Harry Benjamin International Gender Dysphoria Association
- Clinical guidelines originated in 1979
- DSM-IV and ICD-10
- Triadic Therapy
  - Hormones
  - Real-life experience
  - Surgery
- Eligibility requirements
  - Documentation letter prior to hormone therapy
  - Real-life experience for 12 months prior to surgery
- Readiness Criteria

(The World Professional Association for Transgender Health, Inc., 2011)
Interventions

- Fully reversible
  - Puberty-delaying hormones
- Partially reversible
  - Masculinizing or feminizing hormones
- Irreversible
  - Surgery
- Psychotherapy
- Post-transition follow-up

Voice Therapy Goals

- One of the most daunting obstacles is achieving an acceptable voice, particularly during the male to female transition
  - (Berger, 1988; Neumann & Welzel, 2004)
- For the MtF population, it has been demonstrated that voice alone has a negative impact upon a person’s perceived femininity, while physical appearance bestows a positive impact
  - (Don-Borou, De Cuypere & van den Berghe, 2001)
- Therapy should focus upon a variety of speech, language, and pragmatic functioning as they relate to gender

Male/Female Voice

- Dividing line for male versus female voice perception is approximately 155-160 Hz
  - (Sorensen, 1988 cited by Brown, Perry, Cheesman & Pring, 2000; Van Boron, De Cuypere & de Berghe, 2001)
- Voices pitched higher than 160 Hz typically are perceived as female, and voices pitched less than 155 Hz usually are perceived as male
- Biologically male voice is further characterized by a greater degree of shimmer, and less jitter, than biologically female voices
  - (Sorensen and Mori, 1983 as cited by Van Boron, De Cuypere, Rubens & Destaereke, 2000)
FtM

- Intake of testosterone during FtM hormone therapy increases the mass of the vocal folds, and thus, results in a lower pitched voice.
  - (King, Lindstedt, Jensen & Law, 1999)
- The effects of testosterone on the voice may become apparent as soon as six to 12 weeks after the first injection, or as late as several months later.
  - (Kuiper, Asscheman & Gooren, 1992, Damsté, 1964, as cited by Van Borsel, De Cuypere, Rubens & Destaerke, 2000)
- 14 out of 16 FtM transgender clients reported that they were satisfied with their vocal changes as a result of hormone therapy, while the other two participants did not report a change due to previously low-pitched and acceptable voices.
  - (Van Borsel, De Cuypere, Rubens & Destaerke 2000)

MtF

- Intake of the female hormone estrogen does not produce any discernable effects upon the vocal folds.
  - (Money & Walker, 1977 as cited by Brown, Perry, Cheesman & Pring, 2000)
- Many MtF transgender clients seek a combination of voice therapy and/or surgery.
  - Surgery modulates automatic functions, such as sneezing, coughing, and throat-clearing.
    - (Adler, Hirsch & Mordaunt, 2006 as cited by Pickering & Kayajian, 2009)

Surgical Options

- 3 goals: To increase tension, alter consistency, and/or decrease the mass of the vocal folds.
- Types
  - Cricothyroid approximation, also known as type IV thyroplasty
  - Anterior commissure advancement
  - Scarification
  - Injection of triamcinolone into vocal folds
  - (Neumann & Welzel, 2004; Gross, 1999)
- Endoscopic vocal fold shortening is intended to both shorten the vocal folds and reduce their vibrating mass.
  - (Gross, 1999)
Voice Therapy

- Acoustically, voice therapy can increase formant frequencies and pitch into the female range
- SLP should ensure that the transgender client does not produce effortful speech and place a large amount of tension upon the larynx. This type of speech is characteristic of both adductor spasmodic dysphonia and vocal nodules, and has been observed to occur in MTF transgender clients
  - (Gorham-Rowan & Morris, 2006)
- Transgender clients are generally satisfied with their voice following voice therapy, although while rating their voice on the Voice Handicap Index (VHI), a mild voice handicap remains
  - (McNeill, Wilson, Clark & Deakin, 2008)

Voice Treatment

- Treatment program for transgender voice clients focusing solely upon establishing an acceptable pitch level across all levels of speech.
- Initial feedback is provided through the Visi-Pitch program, and faded once the client reaches the sentence level with all speech sounds.
- As appropriate, intonation, emotional expression, nonverbal behaviors, and paralinguistic behaviors are also addressed.
- The final step of the program involves the transgender client utilizing the phone in combination with appropriate strategies to pass as their desired gender through this most difficult means of communication.
  - (Gelfer, 1999)
Support Site Mission Statements

References

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