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## Modules

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Overview, Myths, Bilingualism \& CAS
2) Assessment of CAS in Bilinguals $\qquad$

3 CAS Treatment Approach for Bilinguals
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## Learning Objectives

- Describe speech development in bilinguals
- Apply knowledge of CAS to children from bilingual $\qquad$
environments
- Understand
- functional language needs for bilingual children with CAS
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- how CAS needs are the same for bilinguals \&
monolinguals
- how different language properties may affect external characteristics of CAS
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## Most people in the world are multilingual

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YET OUR FIELD HAS APPROACHED CAS FROM A ONE-
$\qquad$
LANGUAGE PERSPECTIVE

## Linguistic Diversity in the U.S. ${ }^{1}$

46 million people

- Speak a language other than English

62 million Latinos in US

- From 50.5 million in 2010 (23\% growth)
$23 \%$ of kids in school
- Children of immigrants

By 2030s 40\% of school population


- Will be English Language Learners
- Latino children largest ethnic minority in the U.S. today
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Importance of Heritage
Language in $\qquad$
Bi/Multilingual
L1, NATIVE, OR HOME LANGUAGE(S)
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## Familial Implications

- Effect of Losing L1 on Family Relationships
- Negative impact on child's maintenance of culture, $\qquad$ religion, moral values, community, career opportunities.
- Loss of L1
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- creates a distinct communicative barrier between child and their parents and grandparents
- difficulty in genuine connection building $\qquad$
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## Personal \& Social Implications

- L1 proficiency intrinsically connected to self-identity
- Maintaining L1 helps child value their culture \& heritage, contributing to a positive self-concept.
- Isolation \& feeling of rejection can occur if L1 not maintained.
- Cognitive \& academic benefits of retaining bilingualism.
- Greater scope of job opportunities for bilinguals
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"As SLPs increasingly assess and treat children from varying linguistic backgrounds, knowledge of $\qquad$ typical acquisition must expand beyond descriptions of developmental milestones based predominantly on studies of English..."2
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Importance of L1 or Both Languages ${ }^{3}$

- Supporting first language in preschoolers helps rather $\qquad$ than hinders English learning in typically-developing
children.
- Even more important for the bilingual child with CAS! $\qquad$
- If parents speaking their language to children
- Children communicating at highest level cognitively with parents
- Continuing to develop cognitive skills
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Immigrant Children's Academic Success ${ }^{4}$

- Russian \& Ethiopian immigrants in Israel

Bilinguals (Had to learn Hebrew)
Examined in $5^{\text {th }}, 7^{\text {th }}, 9^{\text {th }}$ grades
Sampled entire population

- Greatest predictor of success was SES
- Second was whether L1 kept alive at home
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## U.S. Immigrant Children's Success ${ }^{5}$

- 6750 Asian American refugees

Parents with limited educational backgrounds, LEP

- Strongest predictor of academic success in English was whether L1 was kept alive at home
Reading books to kids
Retention of language \& cultural values
Supportive home environment


## Most Effective Bilingual Programs ${ }^{6}$

- Academic achievement in English of $\sim 42,000$ students in bilingual and ESL classes over 8-12 years
Students make similar gains in first 3 years of instruction Students in Late-Exit Bilingual + Content ESL \& 2-Way BE programs reached \& surpassed grade level on English academic content by JHS.
Students in English-only programs level out \& make least gains in long run.
- More L1 leads to higher academic achievement in English.


## Risks of Losing L1

- Loss of cultural transmission
- Less successful in social-emotional development \& education
- Increase in $\qquad$
- riskier behaviors
- school dropout rates
- drug use
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Bilingualism: A Functional Framework

A functional perspective to communication \& bilingualism
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Functional Bilingualism

- Applies to anyone who uses two languages
- Differs across individuals
- Differs across second language speakers
- Changes over time $\qquad$
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## Speech Development Research

- Focus on monolingual English (middleclass white kids)
- Research critical to understanding speech
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- Applied to clinical practice
- In-depth, multiple perspectives
- Developed norms

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How Bilinguals \& Monolinguals Compared

- Middle-class tasks and expectations

Differences seen as speech, language, cognitive, cultural and $\qquad$ familial deficits

- Differences must be defended in comparison to monolinguals $\qquad$
-Populations that speak English often tested monolingually
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Bilingual Speech Research

[^1]How Are Bilinguals \& Monolinguals the Same?

- Have an underlying phonological system
- Bilingual system is nonautonomous but for two languages
- Develop speech

But may develop two speech for two languages at different rates

- Reach developmental milestones at same time as monolinguals
- Surface-level presentation differs based on cultural values
- May look slower than monolingual peers
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## Bilinguals \& Monolingual Differences

- Codeswitching
- Alternate use of two linguistic codes within a stretch of discourse (mixing, interference, borrowing)
- Social learning context is key
- modeled for child
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Unique to Bilingual Development

- Phonetic distinctions of same phone
- Pragmatic language use
- Situation-dependent
- Metatransfer

Importance of Not Having a OneDimensional Framework ${ }^{8.9}$
"There continues to be a dearth of research on bilingual speech sound development, despite multilinguals being more common than monolinguals worldwide"

Speech Development in a Dynamic System6

Language is a "dynamic system that emerges within a social context through interactions of cognitive, neurobiological, and environmental systems and subsystems across nested
timescales."7

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## Bilingual Considerations

- Elective vs. Circumstantial Bilingual
- Languages families speak
- Current language environment of child
- Who the family interacts with

Daily/Annually/Occasionally

- Value of language for Family Child
- Typical vs. Disordered
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## Need to Understand Bilinguals

- Limited knowledge of bilingual speech development
- Bilinguals typically compared to: $\qquad$
Monolingual children in one language
- But path to and goals for speech development are different!

Bilinguals often not differentiated by bilingual environment
Simultaneous vs. sequential
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## Types of Bilinguals ${ }^{10}$

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- Simultaneous

Learning about language in both languages

- Regular exposure to both languages before 18 months of age $\qquad$
- Exposed to English for at least 2 years
- Sequential $\qquad$
Exposed to L1 first and L2 later
- L2 gained after the establishment L1, typically after age 2 $\qquad$
- Use L1 language skills to learn L2


## Bilingual Development Differs ${ }^{8}$

"When bilinguals are first exposed to each language their phonological systems will result $\qquad$ in slightly different phonemic inventories and accuracy rates in each language." ${ }^{\prime \prime}$
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Many US Bilingual Children Are

- Circumstantial bilinguals
- Sequential bilinguals (>50\%)
- Home language not U.S. status language
- Home language needs differ from school needs $\qquad$
- Parents not of economic advantage, many with

Less time
Less education
Conflicting knowledge of importance and means of parent advocacy

## Bilingual Considerations

- Educational Resources
- Language Biases
- Power
- Privilege
- Peer and academic pressures
- Circumstantial vs. Elective bilingual


## Multilingual Speech Development

Same components as monolinguals

- Phonological systems
- Function \& Constraints of sounds/word shapes
- Articulatory aspects necessary
- Motor Planning
- Motor Execution

Child's language(s) superimposed on these components
Zuns Monolingual $\varepsilon$ Blilingual Speech Lab

## Early Speech Development Similar in

 Simultaneous Bilinguals \& Monolinguals ${ }^{8,9}$- Early babbling \& first words similar regardless of language

Anterior sounds before posterior sounds $\qquad$
Oral and nasal stops before fricatives and liquids

- Why similar?

Emergence approach
Child's structure and abilities are immature
Articulation, motor movements, \& perception skills are not developed
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## General Bilingual Comments

- First words and word combinations develop at same age
- Same system
- Same overall development
- Different cultural emphases?
- If compared to monolingual
- Slower single language vocabulary growth
- But must look at sum ACROSS languages
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## Simultaneous Bilingual Development ${ }^{8}$

- Before 2, bilinguals do not develop the finegrained articulatory differences of similar phonemes between both languages
- For example, bilingual Spanish-English speakers may produce /t/ (English [ $\mathrm{t}^{\mathrm{h}}$ ] and Spanish [ $\left.\mathrm{t}^{7}\right]$ ) the same
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## Bilingual Speech Development ${ }^{8}$

- From ages 2 to 5, children's language environments start to influence their phonotactic $\qquad$ and phonological development
- For example, Spanish-English bilinguals produce /t/ $\qquad$ correctly and differently in Spanish and


## Bilingual Speech Development ${ }^{11}$

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Translanguaging in Bilinguals ${ }^{12}$
-Functional and dynamic use of both languages to

- Organize and mediate mental processes for
- understanding, speaking, literacy, learning.
-Challenges idea that bilinguals are going from one language to another


## Codeswitching is Normal ${ }^{13}$

- Bilinguals use elements of both languages in conversation
- Can occur between two languages that highly contrast each other (i.e., English and Vietnamese)
- Effective form of communication between bilinguals who speak the same languages
- Not a sign of a developmental language disorder in bilinguals


## Translanguaging vs. Code-Switching ${ }^{14}$

| Translanguaging | Codeswitching |
| :--- | :--- |
| One fluid practice | Two sets of monolingual norms |
| Centers language users | Emphasizes languages systems |
| Rooted in a speaker and community <br> perspective of language practices | Focused on a sociopolitical definition of <br> named languages |
| Frames use of entire communication <br> repertoire as an authentic, legitimate and <br> rich practice | Suggests the mixing of different named <br> languages is strategic, aberrant or erroneous <br> Accepts social and political boundaries |
| Transcends boundaries of named languages <br> between language systems <br> Affirms bilingual identities and ways of | Can contribute to negative perceptions about <br> bilingual people having broken or semi <br> language |
| knowing |  |$\quad$| Z Monolingual \& silingual speech Lab |
| :--- |

## Mythbusting

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Myth: Learning two languages is harder than learning one
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Reality:

- Bilingual and monolingual children develop speech $\qquad$ skills at the same rate $\qquad$
- Most people speak two languages all the time
- Many speak 3+! $\qquad$
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Myth: Bilinguals just need academic language

Reality

- Value for home language and environment $\qquad$
- Language is culture
- Not only classroom language important for success
- Not every American should/can/wants to speak English fluently
- May not have access to English learning resources $\qquad$

Myth: If child has a disorder, focus should be on English because SLP speaks it

Erroneous Framework because

- Dominant cultural bias
- Assumption that family - not SLP, school must adapt
- Assumes families can adapt


## Myths About Bilingualism and CAS

- Need to pick one language because it's CAS and too hard to be bilingual
- Parents can choose to speak a language they don't speak
- English is more important because:

The SLP can speak it
The child will need to speak it for school to be successful

## Myths About Bilingualism and CAS

- A bilingual child is "choosing" English Language choice or simpler structure? (eg., "ba" for "ball" instead of "pelota")
Needs opportunities to practice in longer utterances Needs help with generalization
. English is improving in therapy so don't need L1 That's just evidence your therapy works!
SLP needs to find ways to encourage bilingual growth.

Childhood Apraxia of Speech A Type of Speech Sound Disorder
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CAS is Like Other SSDs

- Affects

Speech output
Intelligibility
Age-appropriate communication $\qquad$
Social emotional factors

- Simpler sounds \& syllable shapes predominate in speech $\qquad$ productions
"tah" for "socks", "boo" for "spoon" $\qquad$
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CAS Differs from Other SSDs ${ }^{16,17}$

- Core deficit is motor planning \& programming speech $\qquad$
- Inconsistency in phoneme production

Consonant, *Vowels, Tones

- Unusual breaks between sounds in syllables
- Increased difficulty as utterance gets longer
$\qquad$
- Prosodic/Suprasegmental errors

Stress errors
Pitch, loudness, intonation, nasality

## Other Signs of CAS ${ }^{16,17,18}$

- Difficulty moving from one sound to another
- Producing words inconsistently
- Difficulty imitating words
- Groping movements of the tongue, mouth or jaw
- Incorrect and/or excess equal stress on syllables and words - In stress-based languages or with lexical stress
- Tone production errors in languages with phonemic tone
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## CAS Deficits Affect

- Sequencing of motor movements
- Representation of sounds and syllables in the brain
- Speech, language, and literacy in children with CAS $\qquad$
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Typical Signs of CAS ${ }^{17}$ $\qquad$
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- As children's speech develops more between 2 to 4
$\qquad$
Vowel and consonant distortions $\qquad$
Separation of syllables in or between words
Voicing errors $\qquad$


## "Bilingual didn't cause disorder; monolingualism is not going to fix $\mathrm{It}^{7}{ }^{7}$

## MOM: Understanding \& Supporting <br> Bilingualism in Children with CAS7

Means

- general language proficiency $\qquad$
Opportunities
- to learn, use \& practice language/s in different contexts \&
$\qquad$ with varying partners

Motivations

- preference to use one language over the another
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Can a Child with CAS Learn to Speak More than One Language?

YES
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## Should a child with <br> CAS learn two languages? <br> CHILD \& FAMILY DECISION

SLP provides best evidence and appropriate supports
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A (weak) analogy:
$\qquad$ Should my child with global apraxia learn to swim? Isn't walking enough? $\qquad$

Which kid gets to swim?

- Live on a houseboat or an island or the ocean shore
- Live on a lake
- Visit extended family on a lake for weeks every summer $\qquad$
- Older siblings and friends at pool all summer
- Your family loves to swim $\qquad$
- Your child really wants to learn how to swim
- You don't swim but you really want your child to


## Bimodal Apraxia: What Decision Factors?

- Redefine "swim" so reflects difficulty
- Severity of apraxia? Maybe
- Family considerations?
- What impact will not swimming have on child?
- Child considerations?
- Present and future needs?
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## Bilinguals with CAS

- Same deficit in motor planning for speech as monolinguals $\qquad$
But affects both languages
- No effect on understanding two languages
- No effect on need to communicate in both languages
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## Bilingual CAS

- Need speech skills to communicate with their community
- Monolingualism will negatively impact their communication
- Beware the "Matthew Effect"

Those with access to therapy in their languages will improve their communication
Those who are deprived of opportunity to develop their
L1 and likely will lose L1 and connection with others. $\qquad$
$\qquad$

## Bilinguals with CAS need

- Assessment in both languages
- Individualized treatment approach
- Plan for language(s) of intervention
- Which
- When
- How


## Understanding Bilingual

- Look at overall/composite development to understand whole phonology
- May have different skills in each language

Phonology of each language matters

- If more complex consonant system, may take longer to master
- Initially
- Shorter words may be more intelligible
- Simple syllable shapes may be more accurate
- Vowels may be mastered sooner if language has few vowels
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## Intervention for Bilingual CAS

- Children with speech and/or language disorder
- Need as rich a communication environment as $\qquad$ possible
Child has underlying difficulty with motor planning
$\qquad$
Enriched environmental factors to support deficit
- Bilingual children with CAS need intense therapy in both languages.
At greatest risk of losing L1
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## Importance of Home Language in Intervention

- Can be used to strengthen English
- Learn new information
in a stronger language
then transfer to weaker language
- Better language choice if no English yet
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$\qquad$ Lots of opportunity for practice!
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To understand challenges for
$\qquad$ bilinguals with CAS, need to understand motor planning needs for L1 and L2 $\qquad$ -
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## Need to Consider L1 \& L2 Motor Plans

- How is meaning contrasted?
- Overall? In a developing speech system?
- Is meaning contrasted differently across $\qquad$ languages?
- How might meaningful differences in L1 affect L2 speech?


## Intervention for Bilingual CAS

- CAS motor planning disorder whether a bilingual or a monolingual $\qquad$
- Framework for CAS therapy doesn't change
- Need to consider specific language and socio-cultural needs,
- Need meta skills
- Transferring skills in two languages is generalization practice
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## Monolingual Lens of CAS

CAS "features and checklists were $\qquad$ developed based on English speakers" and $\qquad$ studies focused on English -speaking populations ${ }^{17}$
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CAS Based on English Properties $\qquad$
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- Strong-weak stress pattern $\qquad$
- High frequency of monosyllabic words $\qquad$
- Moderate number of consonants $\qquad$
- Many vowels

CAS Considerations in Other Languages
Different stress patterns
. Multisyllabic words
. Fewer/more vowels or consonants
Different word shapes and lengths
Other ways of contrasting meaning
Ex: Airstream Source \& Direction, Phonation, Tones, Length
Differences affect assessment \& treatment!

## Comparison of <br> Languages in the Bilingual

IMPLICATIONS FOR ASSESSMENT AND TREATMENT

## Understanding Bilingual

- Look at overall/composite development to understand whole phonology
- May have different skills in each language

Phonology of each language matters

- If more complex consonant system, may take longer to master
- Initially
- Shorter words may be more intelligible
- Simple syllable shapes may be more accurate
- Vowels may be mastered sooner if language has few vowels

Example: Spanish and English

- We need to consider:
\# and type of vowels
\# and type of consonants
Different stress patterns
Word lengths
Word shapes


## Determine Phonological Differences

- Review phonological features of Spanish (or another language) and potential phonological variations of child/family's dialect:
- Compare shared vs. unshared phonemes
- Phonetic properties
- Word shapes, etc.


## Vowel Comparison ${ }^{9}$

| Spanish-Only | English-Only |
| :--- | :---: |
| $\circ 5$ Phonemes: /i, e, a, o, u / | $\circ 14$ monophthongs |
| - Allophonic variance that can | $\circ$ Stress/Unstressed versions |
| overlap with English vowels | of vowels |
| - No tense/lax contrast | . Some phonemes can be |
| •Allophonic in Spanish |  |
|  | . Phonemic/Nonphonemic variation greater? |
|  | diphthongs |

Spanish has fewer vowel contrasts when compared to English

English \& Spanish Vowel Comparison


8 8.encme
YMans Monolingual \& Bilingual Speech Lab $\qquad$

Consonant Phoneme Comparisons ${ }^{9}$

| Spanish-Only | English-Only |
| :---: | :---: |
| - Phonemes: /r, n, x, r / |  |
| - Allophones: / $\beta$, ð, $\gamma$, R / | - Allophones |
| - No voiced spirants | - Final [ ? ] for /t/ |
| - Phonetic Properties | - Velar [ $\dagger$ ] for /l/ |
| - Unaspirated Voiceless Stops [ $p^{\prime}, \mathrm{t}^{\prime}, \mathrm{k}^{\top}$ ] | - Phonetic Properties |
| - Dental Stops \& Nasals | - Aspirated [ $\left.\mathrm{t}^{\mathrm{h}}, \mathrm{p}^{\mathrm{h}}, \mathrm{k}^{\mathrm{h}}\right]$ |
|  | - Alveolar Stops/Nasals |


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## Word Shape Comparison

| English | Spanish |
| :--- | :--- |
| - Predominantly monosyllabic | - Predominantly multisyllabic |
| words | words |
| - 2+ syllable words less frequent |  |
| - Wew final consonants permitted |  |
| meaningflable shape most | /I, n, s, $\mathrm{r}, \mathrm{d} /$ |
| - Consonant sequencing | - Lesser reliance on within- |
| - Final consonants | syllable shape contrasts |
|  | - Greater reliance on word length, |
|  | syllable combinations |

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## Stress Pattern Comparison

English Spanish

- Most words one syllable
- Two-syllable words primarily trochaic
- Stress patterns can change in longer utterances
- Unstressed syllables show vowel reduction (schwa)
- Most words 2 or more syllables
- Few meaningful one syllable contrasts
- Stress patterns dependent on final phoneme
- Word's stress pattern does not change in longer utterances
- No schwa


## Dialectal Considerations - Example

- Mexican \& Puerto Rican Spanish
- Sequences with /s/
- Escuela = [es.kwe.la] vs. [eh.kwe.la] or [e_.kwe.la] Pescado = [pes.ka.ðo] vs. [peh.ka.ðo] or [pe_.ka.ðo]
Final Consonants, e.g. /s/ Dos = /dos/vs. /doh/ or [do_] - Guantes = [wan.tes] vs. [wan.teh]
- Liquids

Verde = [ber.đe] vs. [bel.ðe]


## Motor Planning Needs?

In L1 (Spanish)

- Multisyllabic CV sequencing consonant closure?
- Syllable-level stress
- Trochaic CVCVs

Bilingual's Goal: Meet L1 and L2 motor planning needs
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## Consider motor planning needs!

## I need an orange ball

/'ai nid æn 'כənd3 bat/
V CVC VC VCCC CVC
=
$\qquad$
Yo necesito una pelota anaranjada $\qquad$
/jo ne.ce'si.to 'u.na pe.'lota a.na.ran.'xa.ðа/ CV CV.CV.CV.CV V.CV CV.CV.CV V.CV.CVC.CV.CV $\qquad$
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As a Culturally Competent SLP, We Must

- Provide services that are in best long-term interests of child with CAS
- Use a manner understood and accepted by those receiving services
- To do these, have knowledge of Self
Others
Theories \& empirical research on bilingual development, use \& disorders
Child's language needs now and in the future
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## Become Aware

- Clinicians learn to understand their culture
- Identify their own culture
- Reflecting on their own beliefs, values, \& stereotypes $\qquad$
- Seek information on client's culture
- Similarities and differences $\qquad$
- Use information in
- Interviews
- Assessment
- Counseling
- Treatment
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THANK YOU!

Click to access
REFERENCES \& RESOURCES


[^0]:    7 Mnas Monolingual 8 Bilingual Speech Lab

[^1]:    - Primarily how different from monolinguals, not what is unique about bilinguals
    - Monolingual English tasks

    Assume one type of typical bilingual

    - Normative tests used (but built on monolinguals)

    Cultural/linguistic considerations of tasks not used

    - Observed in structured or semi-structured monolingual situations
    - Age group differences
    - Emphasis on continued differences
    - Often ignored changes over time

