



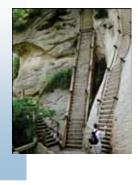
- This presentation is targeted for intermediate level of knowledge
- Research review
- Evaluation procedures
- Specific treatment strategies
- Multi-media: Video and case studies.



The job of a SLP can be exciting and challenging







Every SLP faces challenges when evaluating & treating children with /r/ misproductions

P

Traditional strategies of using Initial, Medial and Final /r/ add to the challenges of the SLP



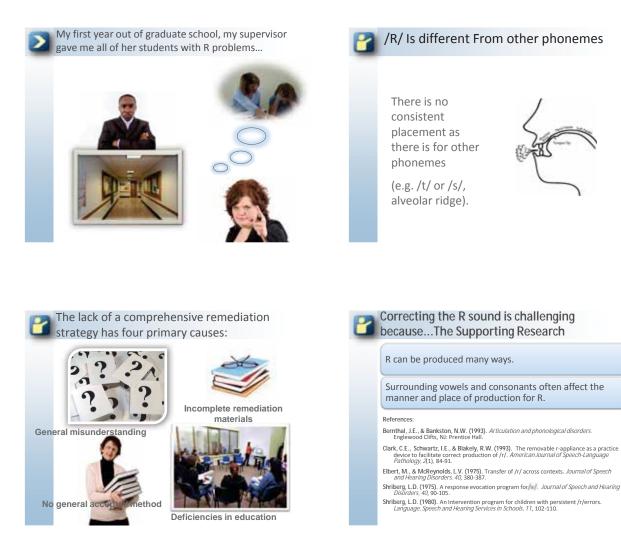


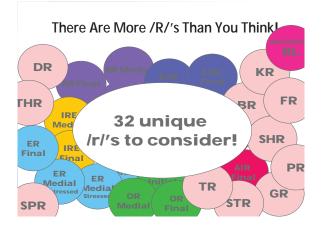
The Traditional Approach to /r/

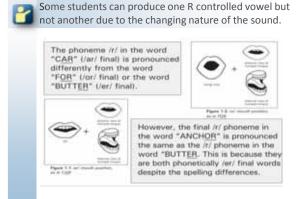
One of the main sources of frustration is that /r/ has been treated primarily for its *consonantal qualities* while *ignoring* the more complex *vocalic qualities* or grouping all of the vocalic /r'/'s into one category entitled <u>vocalic /r/.</u> 2

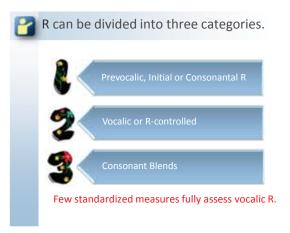


Using a phonemic approach to /r/ remediation will greatly assist you in meeting the needs of your students









Hie
Irat

Hierarchy of Prevocalic /r/ Words (retracted to rounded vowels)

reef	
red	
Rick	
Roy	
rug	
raft	
rock	
round	
roof	
rain	
ride	

Overview of	Vocalic R's	
[er]	[or]	[ar]
Ernie	Orville	Archie
buttercup	corn	barn
feather	four	star
[air]	[ire]	[ear]
Erin	Ireland	Erie
ferry	fire	cereal
fair	fireman	deer

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Overview of R Blends

PR	BR	TR
Pride	Brought	Tried
Pretty	Brown	Tree
DR	FR	KR
Drain	Frog	Crash
Drum	Friend	Cry
GR	SHR	STR
Great	Shrug	String
Green	Shrink	Street
SF	PR	THR
Spi	ing	Thread
Sp	rint	Three



nitial Position	Medial Position	Final Position
ibbon	barefoot	car
un	buttercup	fear
rain	thorn	four
race	wireless	butter
ring	barn	software
Initial AIR	Medial AIR	Final AIR
Arizona	dairy	millionaire
Erin	ceremony	square
heiress	haircut	scare

barefoot

stairs

Traditional Approach

versus

Phonetically-Consistent Approach



- Does not account for each unique /r/ phoneme.
- Some words have recurrent /r/'s.
- Phonetically inconsistent probe lists for production training.
- Probe lists were compiled by spelling of word.

Practice saying phonemically consistent words with

Pra

arrowhead

aerosol

Practice saying traditional /r/ approach practice words lists with your neighbor

tear

pair

Traditional Approach Probe List Sample

Initial	Medial	<u>Final</u>
Ribbon	Barefoot	Car
Run	Buttercup	Fear
Rain	Thorn	Four
Race	Wireless	Butter
Ring	Barn	Software



The traditional approach has not proven to be very effective when evaluating and treating R.

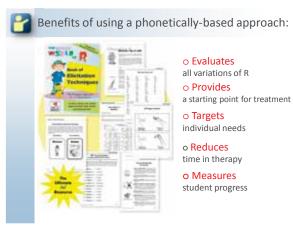


~	your neighbor		
		Phonemic Approach	
	[or] Initial	[or] Medial	[or] Final
	Orville	Award	Snore
	Ornament	Export	Adore
	Organ	Fork	Core
	Orient	Board	Floor
	Oriole	Worn	Soar
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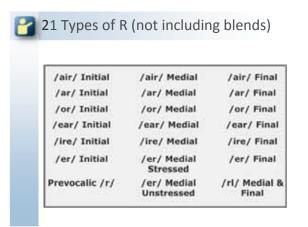


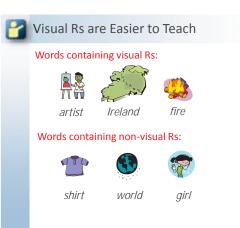
The solution is to treat R Phonetically!

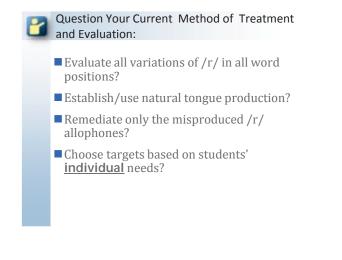












Start With a Comprehensive Evaluation

- Evaluate ALL vocalic /r/ allophones in ALL word positions to attain a comprehensive understanding of student's individual present level of performance.
- Evaluate prevocalic /r/ (red) in combo with all vowels and all initial /r/ blends (e.g. bread).



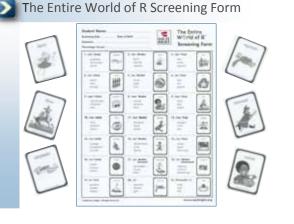
- To find a starting point for treatment. Research shows that *almost all students can produce at least 1 type of /r/.* (Curtis & Hardy, 1959; Ristuccia, 2005).
- Pinpoint exactly where to begin therapy according to your student's individual needs.

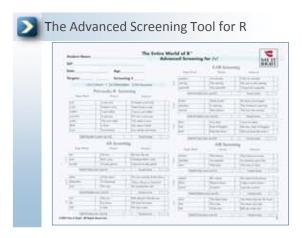


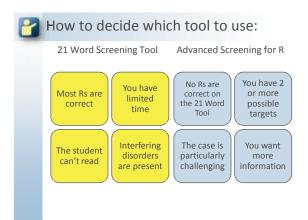


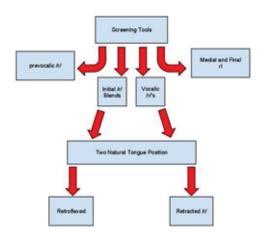


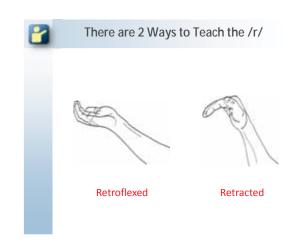












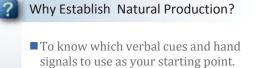
Establishing a student's natural production for R is

Reduces time in therapy.

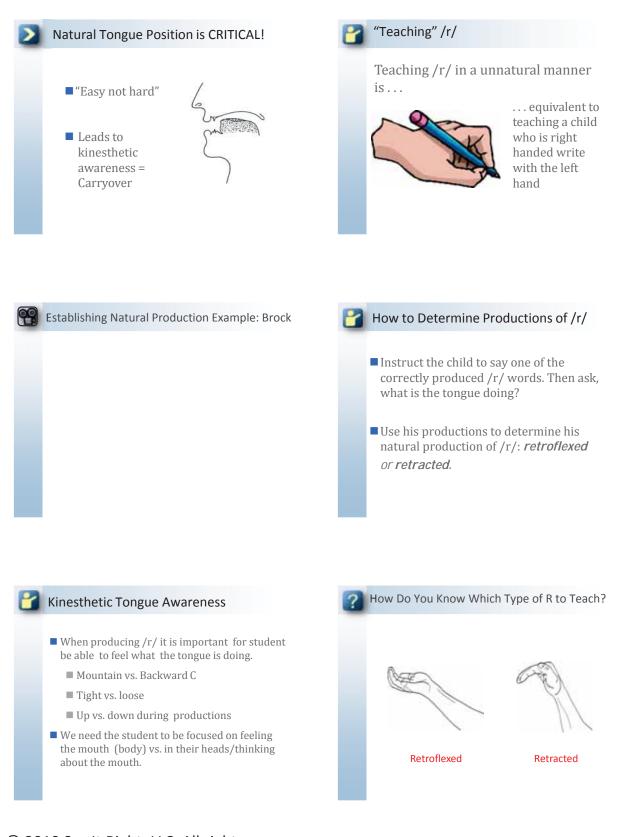
Increases effectiveness of practice.

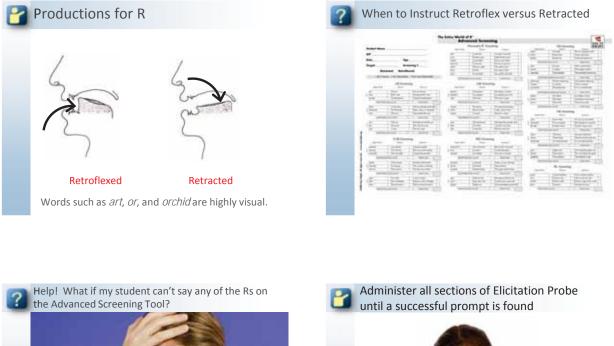
Encourages effortless, correct productions.

important because it...



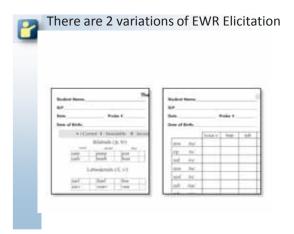
- To use what the student's tongue does **<u>naturally</u>** to increase kinesthetic awareness of tongue placement.
- Wrong tongue position can lead to distortion of /r/ productions.













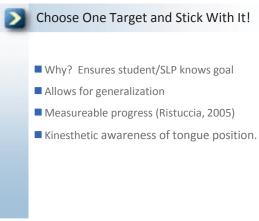
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Transfer Advanced Screening Results Choose Baseline **Results Page** 1 The Entire World of R

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Target Options Worksheet

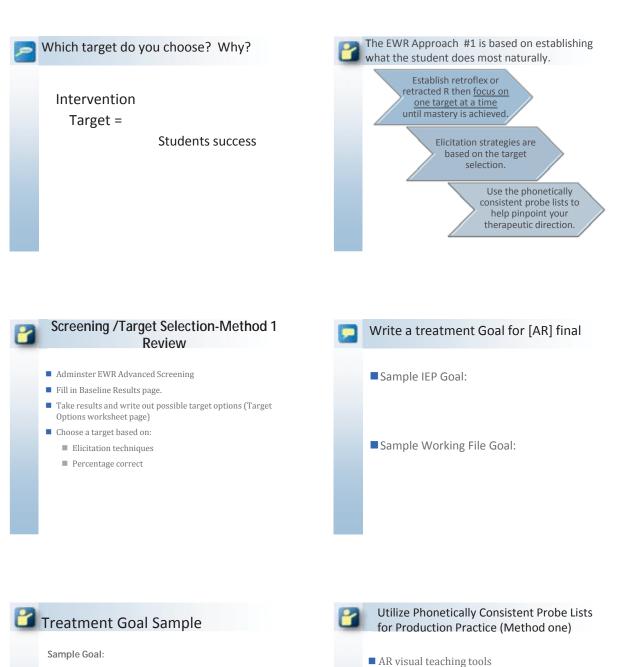
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Goal for Choosing a Target

- Work with students correct productions
- Consistent production probe lists
- Increase students kinesthetic awareness of what her tongue is doing during correct productions.

Student success is Priority: If student is not successful, choose another target or readminister the Advanced Screening or administer the Elicitation Probe.



AR auditory environmental sounds.

AR initial single word probe lists

AR Mixed complexity practice

AR initial phrases

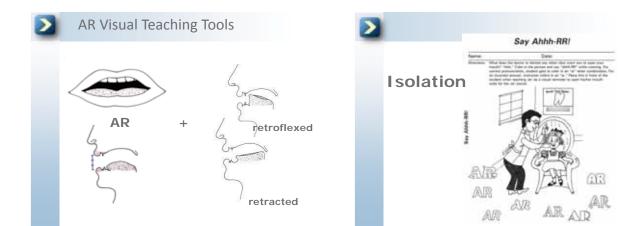
AR initial stories

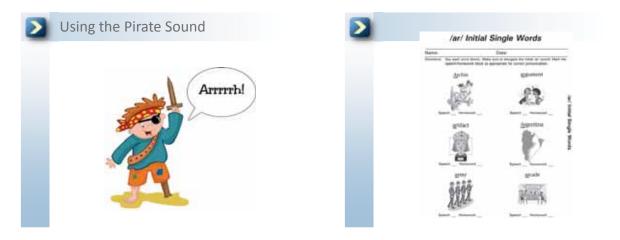
AR initial sentences

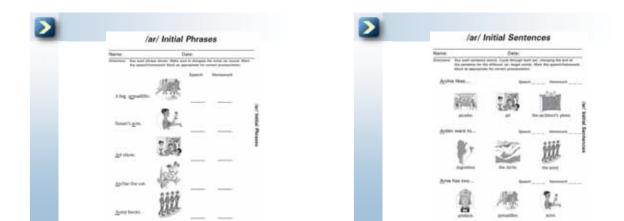
Alex will produce [ar, or, ire, and ear] with 80% accuracy at the sentence level for 5 consecutive sessions.

Sample Working File Goal (s):

Alex will produce [ar] initial, medial & final word positions with 80% accuracy for 5 consecutive sessions. [ar] final will be the first target followed by [ar] initial.

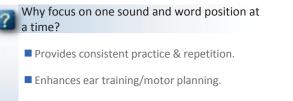




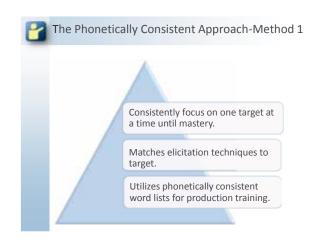


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With what was a	Archie the cat playing?	
Who gave them	money?	
the state and a sector	and Tim do with the money?	





- Ensures student/SLP knows goal.
- Allows productions of other misproduced /r/ allophones not yet targeted in therapy to generalize.
- Document student progress.





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Working File Goals Matthew will predece [ar] Initian, Medial, and Final work positions. with 30% accuracy over \$ com Stooms. Earl Find is the first target fillwood by Ears Instal. - [or] Final 77% Mattine well open his M Wider during Ears productions - [ire] Medial 66% - [ire] Final 66%

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- [ar] Final 66%

*



Evaluation Review

Goal: To find a correct production

- Using the correct production establish whether the students naturally uses a retroflex vs. retracted /r/.
- Choose an appropriate target within the same sound family in which the correct word was produced.

- Review: Evaluation and Target Selection
 - Evaluate all variations of /r/.
 - Interpret the evaluation results.
 - Choose one intervention target by determining allophone with highest chance of improvement.
 - Write goals and objectives.



How to Utilize /r/ Elicitation Techniques

- Used with EWR-Method One
- Analyze screening results to determine the appropriate technique.
- Learn how to use various techniques with <u>specific</u> word positions.
- Choose target on possible elicitation technique that could be used.



Coarticulation

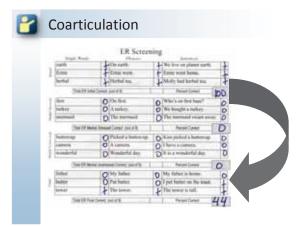
Coarticulation

Works best with a correctly produced final word and a misproduced initial word (or vice versa)

Review baseline screening results page

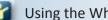
Use student's success in one word position to help shape the other misarticulated word positions (e.g. car art).

<u>**Technique:**</u> Have student produce one word and hold tongue in the same position, then produce the next word.









Using the Whisper Technique

The whisper technique consists of combining two words together.

Combine a misproduced [ar] final word (*car*) with successfully produced [ar] initial word, (art)

car + art



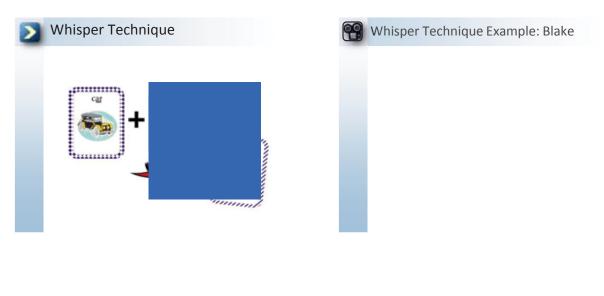
Using the Whisper Technique in /r/ Therapy

■ The whisper technique consists of

Combining two words together

Example: Mis-produced ar final word such as: car

Combine car with successfully produced art



Whisper Technique Example: Chase

Gradually fade the cues as soon as the target is consistently produced using the technique.



When Prevocalic /r/ is an Ideal Target

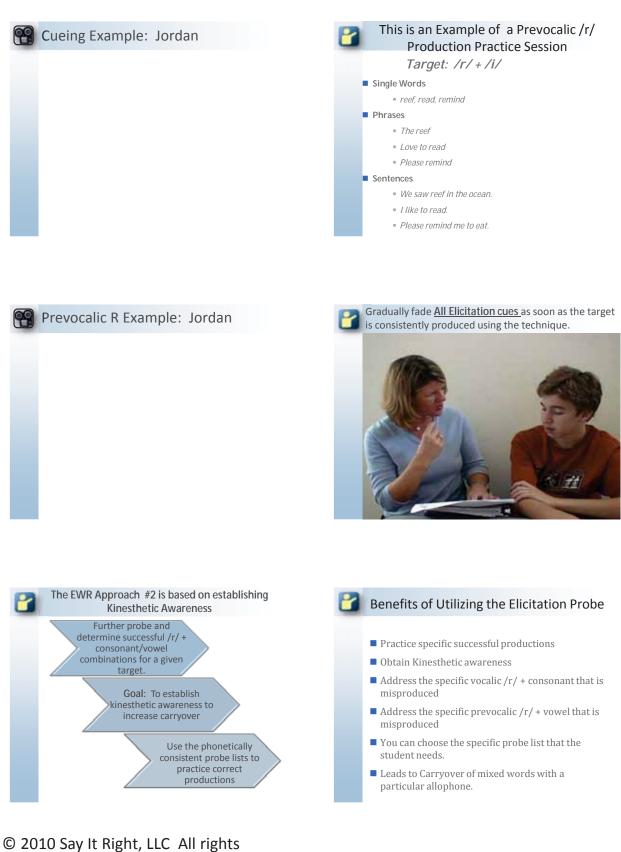
Student is substituting w/r or lip rounding for

- Prevocalic /r/
- Initial /r/ blends

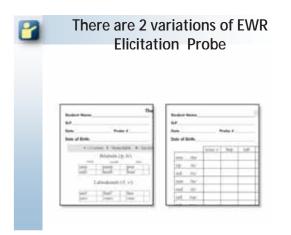
Remediation of (Prevocalic /r/)

Have student use a **mirror** so that she can see her own mouth. This is important to eliminate any lip rounding and ensure that the student is producing both the /r/ plus the vowel.



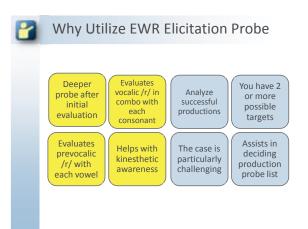


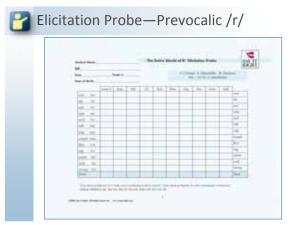
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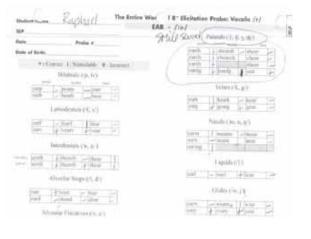


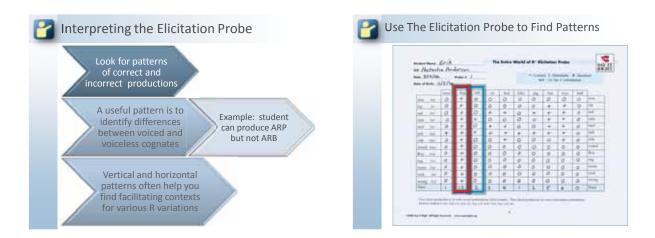


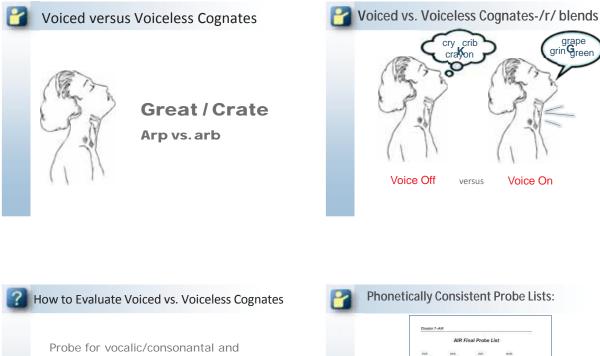


Raphael: [ear] + Palatals Production Practice









consonantal/vocalic combinations for a target allophone. (Elicitation Probe).

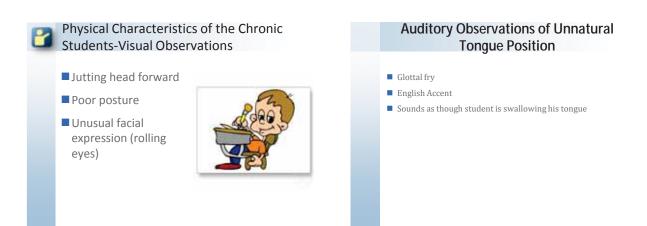
por/bor
tor/dor
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grape grin Green Voice On

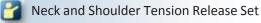
Phonetically Consistent Probe Lists:

	AIR Fin	al Probe Lis	t
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High Anxiety Levels Could be Caused by Unnatural Tongue Position

- Important to try an alternative tongue position
- Anxiety levels
- Talk about feelings and thoughts about /r/ therapy to discover reasons for anxiety.



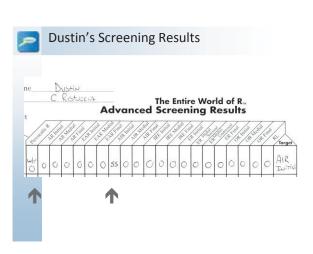


Case Study #2:

- Dustin is a 3rd grade boy. He has been in speech for /r/ for 2 years.
- Physical Characteristics noted:Received OT and PT prior to



- transferring.Awkward gait.Talks incessantly.
- Needed constant reminders to wait to take his turn.
- Extremely anxious and impatient when attempting to produce his /r/'s.



U-22-08 Probe # 1	/Eəv/ Palatals (/ʃ, ʧ, ʒ, ʤ/)	SLP C - VISTUCIO AIR Date 4-22-08 Probe #]	- /Eə/ Palatals (/ʃ. ʧ. ʒ. ʤ/)
of Birth:	airsh - shairsh shair airch - chairch chair	Date of Birth:	airsh - shairsh shair airch - chairch chair
+: Correct 1: Stimulable 0: Incorrect	airch - chairen chair	+: Correct 1: Stimulable 0: Incorrect	airzh + zhair
	airdg jairdg jair		airdg 🛶 jairdg jair
Bilabials (/p, b/)		Bilabials (/p, b/)	
initial mental four	Velars (/k, g/)	airp pairp pair	Velars (/k, g/)
airb 2 bairb bair	airk – kairk kair	airp pair airb bairb bair	airk – kairk kair
	airg Legairg gair		airg Legairg gair
Labiodentals (/f, v/)		Labiodentals (/f, v/)	
airf 🖌 fairf	Nasals (/m, n, ŋ/)	airf / fairf fair	Nasals (/m, n, ŋ/)
airv vairv vair	airm — mairm mair	airv vairv vair	airm — mairm mair
	aim – naim nair		aim – nairn nair
Interdentals (/o, ð/)	airing -	Interdentals (/ø, ð/)	airing -
n airth - thairth thair	Liquids (/I/)	minim airth - thairth thair	Liquids (/l/)
airth - thairth thair	Liquids (/L)	were airth - thairth thair	Liquids (/L)
	airl _ lairl lair		airl _ lairl lair
Alveolar Stops (/t, d/)		Alveolar Stops (/t, d/)	
airt -tairt tair	Glides (/w, j/)	airt -tairt tair	Glides (/w, j/)
aird - daird dair		aird - daird dair	
	airw - wairw wair airy + yairy yair		airw – wairw wair airy Hyairy yair
Alveolar Fricatives (/s, z/)	and J hand An	Alveolar Fricatives (/s, z/)	ang q yany yan
airs V sairs sair	Glottals (/h/)	airs kairs sair	Glottals (/h/)

Dustin's Treatment Plan Individualize session to evaluate and try alternative tongue position . Discussed deep breathing (inhale/exhale) and visualization (beach – his idea) for relaxation. (in his body vs. his mind). Talked about not expecting perfection, but doing our best.

Case Study #3: Trevor

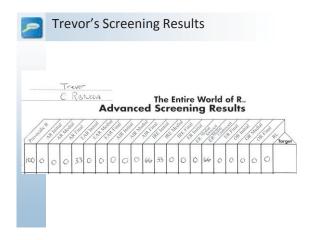
Trevor is a 3rd grade student, who has been in speech for /r/ for one year.

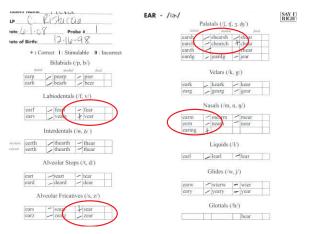


SAY RIGE

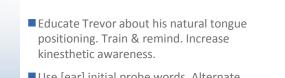
- The previous SLP taught all her students the retroflexed /r/.
- Not successful in a group of 3 students.
- When working individually, he broke down in tears saying he was trying his best, but would never be able to say /r/.

Verbally review





De C. Elstruttan De C. Elstruttan De C. Elstruttan De C. Elstruttan De C. Elstruttan	RE - /ata-/	Trevor's Screening Results
+1 Clerks 1 + Semable # Inserted Bibliotisk (p. by Bibliotisk (p. by) Bibliotisk (p. by)	inerek -/_klonek iden inerek -/ iden inerek -/ izredg izred Verlam (k. gr) verk -/ klock kery inerg -/ group grou	Even though screening and probe result looked similar, he was stronger with [ear].
	Standb (Ym, n, ty T Term Array (Term Array (TermArray (TermArray (TermArray (TermArray (TermArray (T	Trevor's natural tongue position is retracted.
Abushe Stops (1, d)	1941 1.4-1649 1333abri 1.500, pp 18000 19700 19800 19700 19800 19800 19800 19800 19800 19800 19800 19800	



Trevor's Treatment Plan

- Use [ear] initial probe words. Alternate between nonsense (single words, phrases and sentences) and real words.
- Yoga breathing. Use neck tension set.

Trevor's Working Goal

- Get Trevor to produce the [ear] initial sound in single words, phrases and sentences.
- Intermittently try the co-artic and whisper techniques to get the medial and final word positions.

Trevor's Treatment Plan

- Move to [ear] initial words; use worksheets or cards.
- Alternate between levels of complexity (randomized practice).

Trevor Sample Session

- Warm-up: Try a word.
- Tongue positioning (review).
- 3 syllable words (easier). serious, period
- Review what he's doing.
- Nonsense words (easier).
- Sometimes sentences & phrases are easier than single words.
- Make one syllable words into 2 syllables.



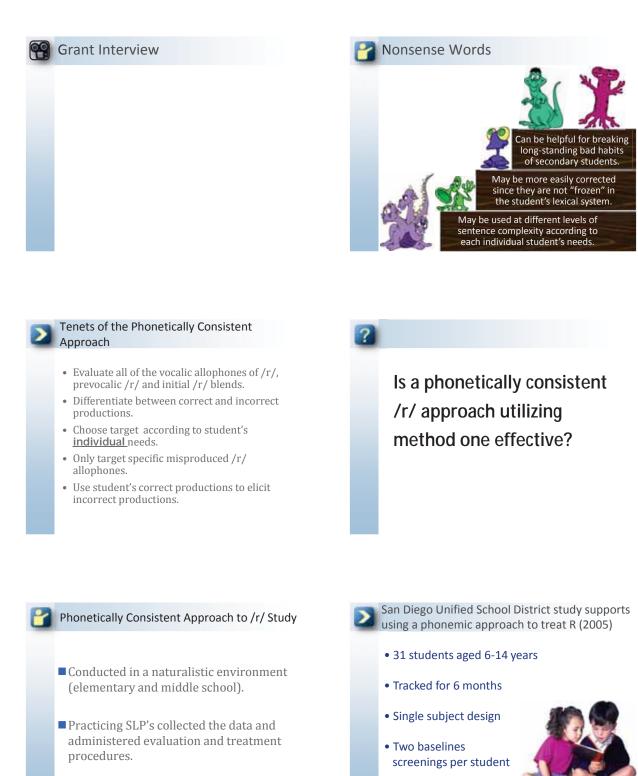


Therapy with Mikie: One Hour Later









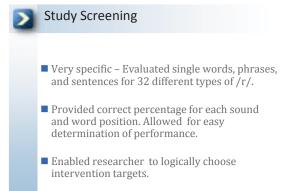
• Between 15 and 20 hours of treatment

San Diego Unified School District study supports

using a phonemic approach to treat R (2005)



• Method was to treat a single target until 80% accuracy achieved at the sentence level for 5 sessions.



Student Name		The Entire W		d of R" d Screening	for /r/	SAV
SLP		Advo	ince	a screening		RIG
					EAR Screen	ing
Date	Age			Single Words	Physics	Seatonces
Targets:	Screen	ing #		earache	An earsche.	I had an earache.
+ for Correct 1 for Stimulable 0 for Incorrect		able 0 for Incorrect	rrect gurring		The carring.	She put on the earring.
				earmuffs	The carmuffs.	I found the carmuffs.
Singole Words	Prevocalic R Scr Phrases	Senances		Total EAR wood Co	Si la Loci de Se	Percent Correct
rol	A red sofa	I beught a red sofa.		beard	Thick beard.	He had a thick beard.
rock	Found a rock.	Matt found a rock	-	steering	Is steering.	The woman is steering.
rabbit	A net rabbit.	I have a pet rabbit.	2	serious	Was serious.	The boy was serious.
raccoon	A raccoon.	We saw a raceoon.		Total EAR Nedial O	Conect (out at 9)	Percent Correct
radio	The new radio.	The radio is new.		deer	Two deer.	It saw two deer.
Rob	Is Rob.	My name is Rob.	1	fear	Fear of heights.	She has a fear of heights.
rose	A rost bush.	Joe cut the rose bush.	1	hear	Hear the news.	Did you hear the news?
Tasai Prevacalia	R Correct (out of 20)	Parcent Consct		Total EAR Final Co	met (pgt of \$)	Percent Correct
Single Words	AR Screen	senoves		Singly Words	AIR Screet	ing Sentences
(int	The art.	We saw the art.		heiress	The heiress.	The heiress is home.
am	Bob's arm.	I bumped Bob's arm.	2	airplane	An airplang,	An airplane goes fast.
arcade	Arcade games.	I played arcade games.	4	area	This area.	This area is open.
Tatal AR Initial Co	orrect. (out of 9)	Persent Connect		Total AIR Initial C	(8 to tuck there	Percent Correct
farm	At the farm.	We saw animals at the farm.		stared	We stared.	We stared at the house.
Denmark	To Denmark.	We will go to Denmark.	1	Paris	Went to Paris.	Cathy went to Paris.
cart	The cart.	We pushed the cart.	2	carrot	A carnot.	Jane ate a carrot.
Total AR Medial	Correct. (put of 9)	Percent Contect		ToskAR Wedat	Conect (out of #)	Partent Conect
car	The car.	Bob played with the cur.		bear	The black bear.	The black bear ate the food
far	Far away.	Jill went far away.	3	hair	Nice hair.	You have nice hair.
	A star.	We saw a star.	~	fair	At the fair.	Bill ate at the fair.
star	Ph Statt,					

Composite results of all 31 students' productions at the baseline screenings

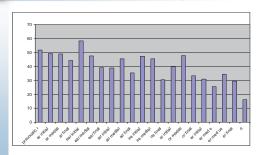
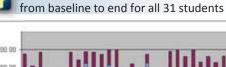
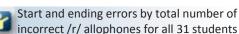


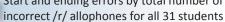
Chart shows composite percentage correct for each vocalic /r/ allophone (21 vocalic /r/'s)

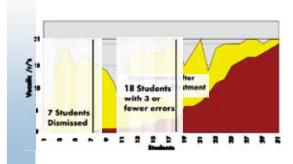


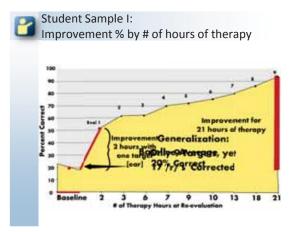
100.00 60.00 £0.00 40.00 29.00 -Baseline Performance Final Performance

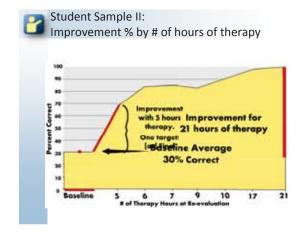
Improvement by overall percentage

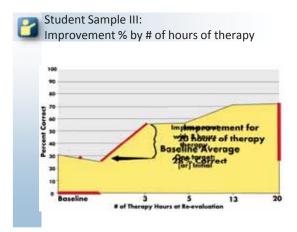










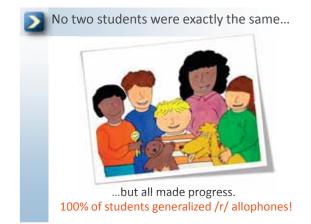


🔰 Study Results

- 80% of students corrected 5 or more R variations
- 58% ended with 3 or fewer errors
- 7 students were dismissed



Study findings support the No Child Left Behind Act and help add accountability for your student's R therapy goals.



SLPs in study had common feedback

Screening proved to be an excellent tool to determine present level of performance.





Review: Reasons for using a phonetically consistent approach

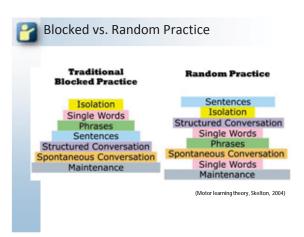
- Better understanding of the complex nature of /r/.
- Measurable progress for students.
- Decrease in caseload size!
- Evidence-supported method which adds accountability for yourself, parents and school staff.

Organization of an /r/ Therapy Session

- Review kinesthetic awareness.
- Review tongue position.
- Review previous session's target.
- Practice production training with specific /r/ + successful consonant.
- Production training with specific allophone with mixed consonants.



- Attempt to schedule all /r/ students together.
- Treat each student/allophone separately. Each student will have own treatment plan tailored to their **specific** needs.
- Schedule difficult kids together (similar issues).
- Make time to see a student alone if not making progress in a group setting





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Appropriate Homework

- Stage 1: Practicing natural tongue positioning (retroflex vs. retracted /r/) to gain kinesthetic awareness.
- Stage 2: Send home words that the student can consistently produce <u>perfectly</u> in therapy.



Ways to Measure Student Progress:

- Briefly review previously mastered targets to check for retention.
- Use advanced screening tool to collect current data and evaluate direction of therapy.
- Use Daily Data Collection and Daily Tally Sheets to measure progress day to day.



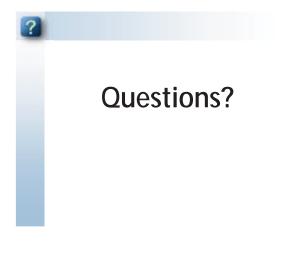
Attempt to schedule all /r/ students together.



Reasons for Lack of Progress: Chronic /r/ Students

- Traditional approach was taught with lack of target/wrong target.
- Student taught incorrectly (er red, er run)
- Student taught unnatural tongue position.
- Speech has become effortful.

Dismissal Criteria When students can produce all /r/ allophones with at least 80% mastery at the sentence level. When students, parents, and teachers report it is no longer a problem. When articulation needs can be addressed at home or in the classroom.



Handout & References

www.sayitright.org/resources