Identifying and Treating Child Language Disorders WITHIN

a Child's Dialect in Dialectally Diverse Communities

Janna B. Oetting, PhD, CCC-SLP Louisiana State University PaTTAN, February 18, 2021 cdjanna@lsu.edu





Department of Communication Sciences & Disorders

SUPPORTING STUDIES OF DEVELOPMENT, DISORDERS, DIALECTS, & DISPARITIES



Department of Linguistics







2020







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National Institutes of Health (NIDCD): R03DC3609, NIDCD R01DC009811

Terminology

Dialects by Category

Mainstream Nonmainstream

Dialects by Name

General American English (GAE) African American English (AAE) Southern White English – rural (SWE) Cajun/Creole English (CE) Spanish-Influenced English (SE) AAE with Gullah/Geechee Influence (AAE-Gullah/Geechee)

Dialects by Place

Baton Rouge, New Orleans, Pierre Part, River Parishes Philadelphia, Pittsburgh (Pittsburghese), Rural Pennsylvania (Pennsyltucky)





Terminology

Schools: Speech and Language Impaired

Research:

Specific Language Impairment Developmental Language Disorder Primary Language Impairment

Today's Talk:

Language Impaired (LI) Typically Developing (TD)











No dialectal variety of English is a disorder or a pathological form of speech or language

Assessment: Distinguish dialect from disorder Treatment: Treat only "true errors" not dialect differences



2-Box Model



https://www.asha.org/policy/ps1983-00115/

Dialect vs. Disorder

Child's Productions		Dialect	Disorder
7			
Zero copula be	He happy	X	
Zero third person	He walk	X	
Zero plural s	Two shoe	X	
Multiple negation	I don't want none	X	
Pronoun appositive	My sister, she	X	
Zero articles	I see shoe		X
Zero Infinitive to	I want go shopping	X	
Zero preposition to	I took Pam the store		X
Dialect specific past tense	drunk/drank	X	
Dialect specific words	fixin, sposta, hafta	Х	

Test and treat productions that cannot be tied to a child's dialect

Other Quotes

Test results are invalid if the test taker comes from a background other than that of the test's normative sample (ASHA, 1983).

Methods used for collecting language data and the ways in which we approach their scoring and analysis should not be rooted in the majority culture (Craig, 1996).

Scoring systems that do not provide equal treatment to alternative language expressions lack validity (Vaughn-Cooke, 1983; Nelson, 1991).

Snake Metaphor





Red against Yellow can kill a fellow; Red touching Black, safe for Jack

Wall Metaphor



New Framework: Diagnostic Conundrum

Nonmainstream dialects can appear identical to symptoms of childhood language impairments.

	Dialect Terms	SLP Deficit Terms
Tavis Ø a boy.	zero copula be	Omission
Tavis Ø walking.	Zero auxiliary be	Omission
Tavis drinkØ milk everyday.	Zero third regular	Omission
Tavis finishØ fishing.	Zero past tense	Omission
Tavis, Ø you want ice cream?	Zero do	Omission

Seymour et al., 1998; https://pubs.asha.org/doi/abs/10.1044/0161-1461.2902.96

Solution: Think about forms as one of two types

Contrastive

Forms that vary across Dialects Conundrum

Past Tense Verbal -S Copular BE Auxiliary BE Auxiliary DO

Noncontrastive

Forms that DO NOT vary across Dialects No Conundrum

Articles Conjunctions Demonstratives Locatives Negatives Prepositions Present progressive Pronouns

Solution: Test and treat forms that avoid the conundrum

Contrastive

Forms that vary across Dialects Conundrum

Past Tense Verbal -S Copular BE Auxiliary BE Auxiliary DO

Noncontrastive

Forms that DO NOT vary across Dialects No Conundrum

Articles Conjunctions Demonstratives Locatives Negatives Prepositions Present progressive Pronouns

DELV Screener & Norm-Referenced Test

Contrastive

Forms that vary across Dialects

Т											
						_		_		 _	
	_										
ŀ											
		_									

Noncontrastive

Forms that DO NOT vary across Dialects

Articles Conjunctions Demonstratives Locatives Negatives Prepositions Present progressive Pronouns









Today this boy is at school. But yesterday he could not get out of bed, and his mother gave him some medicine. Why?

Correct	Incorrect	Incorrect
Was	Omits was/uses is	something else
He was sick.	He sick.	To make him feel better.
He wasn't feeling good	He's sick.	

Incorrect NR NR

https://www.ventrislearning.com/delv/





He has a cookie. They have popcorn. The cookie is his. The popcorn is

Correct Theirs Hers/his His and hers Incorrect thems/shes/hims/both

https://www.ventrislearning.com/delv/

DELV Screener & Norm-Referenced Test

Contrastive

Structures that vary across Dialects

 Past Tense	
Verbal -S	
Copular BE	1
Auxiliary BE	
Auxiliary DO	I



Noncontrastive

Structures that DO NOT vary across Dialects

Articles Conjunctions Demonstratives Locatives Negatives Prepositions Present progressive Pronouns



https://www.ventrislearning.com/delv/

Professional Outcome



Snake metaphor

Avoid nonmainstream dialects.



Wall metaphor

Work around nonmainstream dialects.

Both frameworks do not allow you to test or treat the child's entire language system!

We no longer use the 2-box model of our field.



Oetting, Gregory, & Rivière, 2016; Oetting, 2018; Oetting et al., 2019; 2020

We no longer use the 2-box model of our field.



Single Box Model Disorder WITHIN Dialect



Cross-Linguistic Framework





Vithin Disorders Within Dialects

This framework allows you to test and treat the child's entire language system.

All Dialects are Instruments of Expression



Dialect vs. Disorder Diagnostic Conundrum



Disorder within Dialects

How does dialect variation differ from LI?



How does LI manifest in various nonmainstream dialects of English?

How do same dialect-speaking children with and without LI differ from each other?

Over-Identification

73 African American children, aged 4-5 years, Head Start/Public PreK

Diagnostic Evaluation of Language Variation: Screening Test: Fail = 52%

Fluharty Preschool Speech and Language Screening Test-2: Fail = 56 – 75%

Washington and Craig Experimental Screener: Fail = 48%

Wynn & Oetting, under review; see also work by Cathy Qi

Under-Identification / Limited Access

Birth to 5 years; 9,600 children. Rate of SLP services per parent report at 24, 48, 60 mo. African American 45 – 60% less likely to receive services. Hispanic also less likely but other language accounted for differences.

K – 8th grade; 20,100 children. SLP services in schools. African American 57% less likely to receive services. Hispanic 33% less likely.

How do we learn about our children's dialects?



Cute, fun to read

Great for celebrating dialects

Not accurate for clinical practice

Clinical Resources with Dialect Lists (circa 2000)



African American English

AAL Feature/Characteristic	Mainstream American English	Sample AAE Utterance
Omission of noun possessive	That's the woman's car. It's John's pencil.	That the woman car. It John pencil.
Omission of noun plural	He has 2 boxes of apples. She gives me 5 cents.	He got 2 box of apple . She give me 5 cent .
Omission of third person	She walks to school.	She walk to school.
singular present tense marker	The man works in his yard.	The man work in his yard
Omission of "to be" forms	She is a nice lady.	She a nice lady.
such as "is, are"	They are going to a movie.	They going to a movie.
Present tense "is" may be used	They are having fun.	They is having fun.
regardless of person/number.	You are a smart man.	You is a smart man.
Utterances with "to be" may not show person number agreement with past and present forms.	You are playing ball. They are having a picnic.	You is playing ball. They is having a picnic.
Present tense forms of auxiliary	I have been here for 2 hours.	I been here for 2 hours.
"have" are omitted.	He has done it again.	He done it again.
Past tense endings may be omitted.	He lived in California. She cracked the nut.	He live in California. She crack the nut.
Past "was" may be used regardless	They were shopping.	They was shopping.
of number and person.	You were helping me.	You was helping me.

Spanish-Influenced English

Table 2-10

Language Differences Commonly Observed Among Spanish Speakers

Language Characteristics

- 1. Adjective comes after noun.
- 2. 's is often omitted in plurals and possessives.
- 3. Past tense -ed is often omitted.
- 4. Double negatives are required.
- 5. Superiority is demonstrated by using mas.
- 6. The adverb often follows the verb.

Sample English Utterances

The house green. The girl book is . . . Juan hat is red. We walk yesterday. I don't have no more. This cake is more big. He drives very fast his motorcycle.

Source: From Multicultural Students with Special Language Needs 2nd ed. (p. 84), by C. Roseberry-McKibbin, 2002, Oceanside, CA: Academic Communication Associates. Reprinted with permission.

English Influenced by Another Language

Language Characteristics	Sample English Utterances
Omission of plurals	Here are 2 piece of toast. I got 5 finger on each hand.
Omission of copula	He going home now. They eating.
Omission of possessive	I have Phuong pencil. Mom food is cold.
Omission of past tense morpheme	We cook dinner yesterday. Last night she walk home.
Past tense double marking	He didn't went by himself.
Double negative	They don't have no books.
Subject-verb-object relationship differences/omissions	I messed up it. He like.
Misordering of interrogatives	You are going now?
Misuse or omission of prepositions	She is in home. He goes to school 8:00.
Misuse of pronouns	She husband is coming. She said her wife is here.
Omission and/or overgeneralization of articles	Boy is sick. He went the home.
Incorrect use of comparatives	This book is gooder than that book.
Omission of conjunctions	You I going to the beach.
Omission, lack of inflection on auxiliary "do"	She not take it. He do not have enough.
Omission, lack of inflection on forms of "have"	She have no money. We been the store.
Source: From Multicultural Students with Special Language Needs 2nd ed.	(n. 108) hv C. Roseberry-McKibbin, 2002

Source: From Multicultural Students with Special Language Needs 2nd ed. (p. 108), by C. Roseberry-McKibbin, 2002, Oceanside, CA: Academic Communication Associates. Reprinted with permission.

Limitations of Dialect Lists

They only describe a few salient, high stigmatized forms. The dialects listed are far more complicated than described.

They lack contextual information.

They lack frequency information.

They lack information about how children with and without LI differ on the forms within the dialect list.



Collect Data!



Illustration of American English Dialect Map (Robert Delany, 2000) http://robertspage.com/dialects.html



Louisiana and the Acadiana Triangle



1700s: 3,500 French-speaking Acadie from Nova Scotia

1800s: Influx of French, Spanish, Irish, Scottish, German, Free People of Color, African, Native American.

1900s: Major civil/racial changes with shifts in identity (white vs. black)












African American English (AAE) Southern White English (SWE)

No morphology and minimal features of Cajun/Creole phonology detected.

Oetting & Garrity, 2006

Nonmainstream Forms: AAE and SWE (N = 93; N = 252)

zero BE be₂ i'ma for i'm going to SV agreement with BE zero auxiliary DO zero auxiliary have zero regular verbal -s zero irregular verbal -s SV agreement with don't zero regular past zero irregular past preterite had

over-regularization participle as past ain't multiple negation indefinite article zero present progressive zero plural zero possessive zero infinitive to for to/to zero of what or zero relative been and BIN done+verb fixing+verb undifferentiated pronoun reflexive demonstrative dative y'all varieties appositive existential it and they Wh- noninversion

Results: Nonmainstream Dialects Share Many of the Same Forms

zero BE be₂ i'ma for i'm going to

SV agreement with BE zero auxiliary DO zero auxiliary have zero regular verbal -s zero irregular verbal -s SV agreement with don't zero regular past zero irregular past zero irregular past preterite had over-regularization participle as past ain't multiple negation indefinite article zero present progressive zero plural zero possessive zero infinitive to for to/to zero of what or zero relative been and BIN done+verb

fixing+verb undifferentiated pronoun reflexive demonstrative dative y'all varieties appositive **existential it and they** Wh- noninversion



AAE	SWE
Zere be (100%)	Zere he (000()
Zero be (100%)	Zero be (89%)
Zero regular third (100%)	Multiple negation (72%)
Zero regular past (90%)	Zero regular third (70%)
S-V agree with be (85%)	Zero do (66%)
Multiple negation (82%)	S-V agree with don't (60%)
S-V agree with don't (78%)	S-V agree with be (58%)
Zero irregular past (75%)	Appositive (57%)
Zero do (70%)	Overregularization of past (55%)
Zero irregular third (70%)	Zero irregular past (51%)
Zero possessive (68%)	Alternative pronoun (51%)

10 most frequently produced forms; percent of children in parentheses

Other AAE Studies

2- & 3-year-olds	3- & 4-year-olds	4- & 5-year-olds
Horton-Ikard	Jackson & Roberts	Washington & Craig
VVI	NC	MI
Zero be	Zero be	Zero be
S-V agree be, don't	S-V agree be, don't	S-V agree be, don't
Zero regular past	Zero regular past	Zero regular past
Zero irregular past	Zero irregular past	Zero irregular past
Zero regular third	Zero regular third	Zero regular third
Zero irregular third	Zero irregular third	Zero irregular third
Alternative pronoun	Alternative pronoun	Alternative pronoun
	Multiple negation	Multiple negation

Same forms are frequently produced in other nonmainstream dialects of AAE

Although nonmainstream dialects share many of the same forms, they differ in three ways:

- 1. Rate of use
- 2. Constraints on use
- 3. Function of use

1. Dialects Differ in Rate of Nonmainstream Forms

Percent of Utterances with a Nonmainstream Form

	AAE	SWE
Mean	29%	12%
Range	10 - 52%	3 - 35%



97% accuracy in classifying AAE and SWE speakers by just using percent at which each of the 35 forms were produced by the children.

Oetting & McDonald, 2001

2. Dialects Differ in their Constraints on Form Use

An Example with Forms of BE

Person, Number, & Tense: am, is, are, was, were

Contractibility: Contractible (Jan's two) vs. Uncontractible (Chris is two)

Grammatical Function: Copula (Jaya is tall) vs. Auxiliary (Jaya is running)

Constraints Encourage / Discourage Overt Forms

Person	first person > third person > second
Number	past > present
Tense	I'm happy > He's happy > You're happy
	She was happy > She is happy
Contractibility	uncontractible > contractible
	Jess is happy > Tom's happy
Grammatical	copula > auxiliary
Function	She is happy > She is walking

A study of 62 Children, aged 4-6 years: Percent of Overt Forms

	SWE	AAE
Person/Number/Tense		
Am	96	94
IS	95	59
Are	77	27
Was/Were	99	96
Contractibility		
Contractible	93	57
Uncontractible	94	77
Grammatical Function		
Copula	96	70
Auxiliary	87	53

RED indicates that the constraint was significant for the dialect.

AAE = 3 constraints SWE = 2 constraints

Another study of 38 children, aged 4-6 years

	SWE	AAE	AAE with Gullah/Geechee
Person/Number/Tense			
Am	96	94	69
S	95	59	76
Are	77	27	48
Was/were	99	96	88
Contractibility			
Contractible	93	57	68
Uncontractible	94	77	88
Grammatical Function			
Copula	96	70	82
Auxiliary	87	53	73

AAE with Gullah/Geechee influence is affected by the same constraints as AAE but not in the same way

3. Dialects Differ in the Functions Served by a Form

Example: Preterite Had (camouflaged form)

My mama said she was about to go to Bible study, and on the way back, her car had stopped. Then she had called the house because somebody let her use the phone. Then she had called the house and I said, "Hello. Who's this?" Then my mama said, "It's your mama. Let me talk to your daddy." Then she had told my daddy to come with us and bring a big rope so they could pull the car home. So, we got a new car.

> Past Perfect(relative tense) I had bought some jambalaya by the time the crawfish came.

> > Preterite (simple-absolute tense) I bought some jambalaya

Rickford & Rafal (1996)

9 AAE-speakers (11-13 years) narratives

52 cases Preterite Had

96% simple, absolute past rather than relative

100% were produced in a personal narrative

94% were in the complicating action clause

A Study of 93 Children: Use of Preterite Had

	SWE	AAE	AAE #52
Had + verb+ed Had walked	0%	9%	28%
Verb+ed Walked	83%	73%	57%
Verb unmarked Walk	1%	6%	3%

When do AAE-speaking children produce preterite Had?

90% occurred in a narrative

Abstract	4%
Orientation	2%
Complicating action	84%
Result	2%
Evaluation	4%
Coda	4%

Use tied to Narrative Development

1	Descriptive sequence Heaps; clauses in any order.
2	Action sequence Clauses in chronological order, but not causative in nature.
3	Reactive sequence preschool Clauses ordered chronologically and causatively.
4	Abbreviated episode 6 years Story states character intentions but not a clear plan.
5	Incomplete episode, complete episode, multiple episode 7-8 years Episode = initiating event, explicit character intentions, consequences.

AAE-speaking children with stronger narrative skills produced more Preterite Had forms.

	#	Utts per	Level of	# of
	storie	story	stories	Had+Ved
	S			
4-yr-olds	6	4.33	1.33	7
6-yr-olds	13	10.16	2.31	52
#52	7	11.72	4.29	29
#64	2	11.00	4.00	6
#63	2	13.5	4.00	5

Other Camouflaged Forms Across AAE Dialects

<u>Be</u>

- Be He wants to <u>be</u> a comedian.
- Be_2 He <u>be</u> funny. (*all the time, often, but maybe not now*)
- Be₃ He <u>be</u> Saturday Night Live. (*he is the iconic symbol of the show; found in rap/poetry*)

<u>Been</u>

Been	He has been to the store.
bin	He Ø been to the store.
BIN _{comp}	He BIN called her. (a long time ago)
BIN _{state} BIN _{hab}	He BIN running. (a long time) He BIN calling her. (from time to time)
BEEN	I just now BEEN washing it. (functions as was/were; produced in Gullah &
	AAE with Gullah/Geechee influence)



Dialects share a number of mainstream and nonmainstream forms.

Dialects differ in: Rate of use Constraints on use Function of use



What about Disorder within Dialects of English?

Language Impairment (LI)

Typically developing, same dialect-speaking controls (TD)

AAE LI	SWE LI
AAE TD	SWE TD

35 Nonmainstream Forms

zero BE be₂ i'ma for i'm going to SV agreement with BE zero auxiliary DO zero auxiliary have zero regular verbal -s zero irregular verbal -s SV agreement with don't zero regular past zero irregular past zero irregular past preterite had

over-regularization participle as past ain't multiple negation indefinite article zero present progressive zero plural zero possessive zero infinitive to for to/to zero of what or zero relative been and BIN done+verb fixing+verb undifferentiated pronoun reflexive demonstrative dative y'all varieties appositive existential it and they Wh- noninversion

Number of zero BE / Number of utterances produced by child Number of _____ / Number of utterances produced by child Enter all percentages into a discriminant function (formula)

LI vs. TD within AAE and SWE (n = 62)

Accuracy of classifying LI and TD children using all 35 structures:	90%
Sensitivity (Se): Percentage of LI children classified as LI	Se = .87
Specificity (Sp): Percentage of TD children classified as TD	Sp = .94
omission of auxiliary do	3X more in LI
zero irregular past	3X more in LI
zero be	2X more in LI
wh- noninversion	2X more in LI

LI vs. TD within AAE and SWE

AAE

zero irregular past Wh-noninversion zero irregular third

SWE

zero irregular past auxiliary do omission zero irregular third omission of infinitive to S-V agreement with don't

Diagnostic Accuracy = 82% Se = .75 Sp = .92 Diagnostic Accuracy = 91% Se = .87 Sp = .95

What are the Se and Sp of common language tests?

Clinical Evaluation of Language Fundamentals (*CELF*)*P*: 2 Se = .85Sp = .82 Preschool Language Scales (PLS) - 5 Se = .83 Sp = .80Test of Language Development (TOLD) Primary - 4 Se = .74Sp = .87

Nonmainstream Patterns AAE/SWE Se = .87 Sp = .94AAE Se = .75 Sp = .92 SWE Se = .87 Sp = .95

5 Other Studies: Percent of Overt Marking LI vs. TD

Target structure: Past Tense

Number of overt forms / number of overt forms and zero forms

He walkØ He walkØ He jump/ed rope He play/ed football He mow/ed a lawn He swallow/ed a pill She kick/ed/ed it She typed

6 overt / (6 overt + 2 zero = 8) = 75%

5 Other Studies: Rates of Overt Marking LI vs. TD

	LI	TD
AAE Regular Past Tense	50%	91%
Sadie play/ <u>ed</u> .		
AAE BE Auxiliaries - am, is, are	25%	47%
Ida <u>is</u> reading.		
SWE but not AAE Verbal –S	64%	89%
He walk/ <u>3s</u>		
AAE and SWE Subject Relatives	59%	86%
The girl <u>who</u> was typing is named Raven.		
AAE, SWE, and SWE with Cajun Influence Infinitive TO	83%	90%
The boy wanted <u>to</u> go.		

Cleveland & Oetting, 2013; Seymour et al., 1998; Garrity & Oetting, 2010; Oetting & Newkirk, 2008; Rivière et al., 2018

5 Other Language Sample Studies: Rates of Overt Marking: LI vs. TD

	LI	TD
AAE Regular Past Tense	50%	91%
Sadie play/ <u>ed</u> .		
AAE DE Auviliarias, am is ara	250/	470/
AAE BE Auxiliaries - am, is, are	25%	47%
Ida <u>is</u> reading.		
SWE but not AAE Verbal –S	64%	89%
He walk/ <u>3s</u>		
AAE and SWE Subject Relatives	5 9 %	86%
The girl <u>who</u> was typing is named Raven.		
AAE, SWE and SWE with Cajun English Infinitive TO	83%	90%
The boy wanted <u>to</u> go.		



A disorder within dialects framework allows you to:



- 1. Test and treat a child's entire language system.
- 2. Learn about similarities and differences between nonmainstream dialects.

Nonmainstream dialects share many forms but differ in: frequency of use contexts of use functions of use

3. Discover how children with LI differ from their TD peers in their dialects.

In both AAE and SWE (and GAE and likely other dialects), children with LI struggle to produce overt forms of verb morphology at the same percentages as their TD peers. They are less productive with their grammars.