## **Syllabic and Tonal Patterns of Esan Serial Verb Constructions**

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#### **Abstract**

Contemporary treatments of the serial verb construction provide a broader base for identifying them. In light of these current approaches, this study identifies syllabic and tonal characteristics of symmetrical and asymmetrical types of serial verb constructions in the Esan language. These characteristics are identified on the basis of existing relevant empirical studies of the language. Data for the study were obtained from both primary and secondary sources. Serial verb constructions were extracted from manual recordings of utterances of Esan native speakers domiciled in some speech areas of the language. Data from previous works on Esan serial verb constructions were also examined. Identification of syllabic patterning followed simple existing linguistic practice while while that of tonal patterning was conducted in line with familiar autosegmental tenets. Findings show that these constructs may also be tri-syllabic in Esan and not only bi-syllabic, as claimed in earlier studies. Tonal patterns on some verbs in citation are altered when they co-occur as serial verbs. These changes affect both bi-syllabic and tri-syllabic serial verb constructions in declaratives, imperatives, and the habitual temporal aspect. The study improves on earlier efforts on the study of Esan serial verb constructions and complements identified basis for recognizing this structural type in the language. The study would enhance the documentation of Esan.

Keywords: Esan, Serial verb construction, syllable pattern, tonal pattern

### Introduction

The study of Esan serial verb constructions is not exhaustive. Earlier attempts at examining these constructs in Esan include Ejele (1994) and Osiruemu (2005). Whereas, previous studies focused more on their general syntactic and semantic outlay, the present study identifies changes in prosodic features, which may emerge due to the formation of these structures in the language. The current approach would thereby close existing gaps in the study of Esan SVCs. Esan is a member of the North Central branch of Edoid along with Edo(Bini), and Ora-Emai-Iuleha. The Edoid group is of the New Benue Congo of the Niger Congo Phylum. The present study is conducted in light of recent typological treatments of this phenomena.

The grammatical construct called 'Serial Verb Construction' (SVC) has attracted the attention of Linguists for some time now. This interest in SVCs may not be unconnected with what Dixon (2006) refers to as its "...robust grammatical construction type" and the fact that it "...carries a considerable functional and semantic load." Aikhaenvald (2006) defines an SVC as "...a sequence of verbs which act together as a single predicate, without any overt marker of coordination, subordination or syntactic dependency of any other sort..." According to Yuka (2014), studies of the languages of West Africa, especially those of the Kwa family

(Bamgbose 1974, Williamson 1965 and 1989, Ndimele 1996, Kari 1975b and 2000, Yuka 2008 among others) have identified the prominent peculiarity of conflated sentences as a trait of languages that exhibit verb serialization. A serial verb construction has generally been understood to be "...a type of construction in which two or more verbs are strung together without an overt connecting morpheme." (Ndimele 1996:127). The verbs are not linked by a conjunction thereby "...sharing a common surface subject, one or more common aspectual/tense/polarity markers (Williamson, 1989:30). Bodomo (2004; 2006) analyses SVCs as complex predicates which undergo syntactic operations as a single unit, while Kambon et al (2015) suggests that they contain nonverbal elements which may not be overlooked in the consideration of their structure. Recent studies of SVCs attest that they occur in about one-third of the languages of the world. Aikhenvald's definition of an SVC presents the construct as a single event. He states further that an SVC is mono clausal, possessing identical intonational properties as those of a mono-verbal clause, with the constituent verbs having just one tense, aspect and polarity value and sharing case and other arguments. In his words, "...each component of an SVC must be able to occur on its own and may or may not share transitivity values."

Current treatments separate SVCs into two basic typologies of asymmetrical and symmetrical. Dixon (2006) describes the asymmetrical variety as composed of a major member, which is the head of the SVC, is determined by the meaning of the minor member, which member may increase the vallency of the major verb in a causative construction or reduce it in a passive type construction. He describes the symmetrical variety as composed of verbs with equal status from an unrestricted class, neither of which may be regarded as the head of the SVC. Studies show that nearly all languages with SVCs feature both varieties, with the asymmetrical generally outnumbering the symmetrical. Dixon highlights the grammatical properties and parameters for identifying an SVC as follows.

- > There is no mark of linkage or subordination between the verbs that comprise an SVC.
- Each verb in an SVC has the potential of the sole verb in a clause but their meanings must be relatable when used in an SVC.
- > The SVC functions like a single predicate as it features one intonation group and in most cases, no pause is possible in the middle. This feature also affects tense, aspect, evidentiality, modality, mood, negation and markers of subordination and questioning.
- ➤ An SVC generally has its transitivity value.
- All the verbs in an SVC almost always share at least one argument. In some languages, if the component verbs are all transitive, they share the same objects.
- ➤ The 'switch function' phenomenon also occurs in some SVCs. This is a situation where an argument is in subject function for one verb and in non-subject function for the other.
- > Typically, the Object argument of the first verb is Subject argument for the second verb.
- > The verbs in an SVC may make up one word making them lexicalized, or they may remain separate words.
- > The components of an SVC may be contiguous or non-contiguous. In the contiguous type, no morpheme may occur between the constituent verbs whereas in the non-contiguous type, an object NP may intrude between the verbs which constitute the SVC. This arrangement constitutes the constituent order of the SVC.

Data for this study were obtained from both primary and secondary sources. Primary data comprised a collection of Esan SVCs from field work specifically conducted for the purpose

of this work. Serial verb constructions were extracted from manual recordings of utterances of Esan native speakers domiciled in some speech areas of the language. Data from previous works on Esan serial verb constructions comprised our secondary source. Available data, are presented in orthographic format in the first instance and translated in English thereafter, at two levels. The first level of translation of Esan SVCs is the lexical while the second is the literary. Data presentation is in both phonemic and phonetic format in IPA tradition.

Tonal patterning on Esan SVCs are identified and presented within the purview of autosegmental phonology, a framework primarily fashioned to account for the behaviour of prosodic phenomena such as tone, in a way preceding theories could not (Goldsmith, 1976). The realization that the features of a segment do not always function as a unit, is one which autosegmental phonology adequately demonstrates. The consistent retention of prosodic features, which occurs in some languages, after the deletion of the segment of which they were supposed to be a part, is well known. For example, in Esan, elision may affect a nasalized vowel without affecting its nasal feature. Similarly, in disyllabification induced by glide formation, the di-syllabified tone units of the affected segment may be retained and subsequently hook unto the next tone bearing unit. These occurrences, termed 'the stability of phonological features', attest that the latter are independent of the segments which supposedly bore them and are capable of spreading or being assimilated by other phonological features (Ikoyo-Eweto, 2016).

#### **Previous Relevant Studies on Esan**

In a prior attempt at examining Esan SVCs, Ejele (1994) describes them as a string consisting of verbs that occur next to each other without an overt connector and with a common subject. The work also states that the meaning of an Esan SVC is not usually a direct function of the meanings of its constituent verbs. Osiruemu (2005) describes an Esan SVC as mainly constituted of two monosyllabic verb stems which result in a bisyllabic structure, featuring a  $V_1V_2$  constituent structure. Thus, whereas these previous attempts focus on its general syntactic and semantic features, the present study focuses more on prosodic features of these constructs in the Esan language, thereby closing existing gaps in the study of this structural type in the language. Specifically, it identifies changes in syllable structure and tonal patterning which may occur when constituents of this structural type co-occur as SVCs. As a part of the basis for the present study, a fore knowledge of the relevant basic features of Esan segments and prosody are presented as follows.

### **Segments**

Previous works provide that Esan sound system comprises twenty-eight consonant and twelve vowel sounds (Ejele 1982, Ikoyo-Eweto, 2010). The vowel segments which are all phonemic include /i, e,  $\epsilon$ , u, o,  $\mathfrak{I}$ , a,  $\tilde{\mathfrak{I}}$ , a,  $\tilde{\mathfrak{I}}$ ,  $\tilde{\mathfrak{I}}$ ,

### Syllable structure

Following Ikoyo-Eweto (2005), three syllable structural types occur mostly in the Esan language- the N (nucleus only, V) syllable type comprising only the vowel component, the ON (onset and nucleus, CV) syllable type comprising one consonant and the vowel component and the complex syllable type comprising two consonant slots and the vowel component (CCV). The CCV structural type is rare and usually occurs as a result of the gliding process which the language features. Esan words in the following illustrations are separated into syllables (.)

```
1 Esan word syllable type
a. / 5 / 'drink' V
b. / ú kp. 5 / 'cloth' V . CV
c. /á. βì. lì / 'oil' V . CV. CV
d. /o.kpia / 'male' → [o.kpja] V.CCV
e. /o.xuo/ 'female' → [o.xwo] V. CCV
```

An Esan word may be monosyllabic, comprising only one syllable, or multisyllabic, comprising as many as six or more syllables, and occur within the range of the four types identified for the language.

### **Esan Tonal system**

A tone language is "... a language having lexically significant, contrastive but relative pitch on each syllable." (Pike, 1948). This definition refers to the occurrence in most African languages where the different pitch levels contrast, causing a change in meaning of words. This occurrence refers to the fact that a change in pitch height of a word results in a simultaneous change in meaning without a resulting change in its segmental constitution. Egbokhare (2004) defines pitch as the perception of rate of vibration of the vocal chords per second. He explains that "... a high frequency of vocal chords vibration is perceived as high pitch" while "... a low frequency of vibration is perceived as low pitch." Research shows that pitch is present in voiced segments only and is continually changing in speech depending on the changes in voice production. The melodic pattern of speech is therefore a result of fluctuation in pitch. When a change in pitch height results in a change in meaning of an utterance, it is called "tone".

Following Ejele (2003) and Ikoyo-Eweto, (2005) Esan features pitch contrasts on lexical items. This occurrence is illustrated in 2.

2 Tonal contrasts in Esan

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a. /éfè / 'rat' HL
b. /èfè / 'edge' LL
c. /òkpá / 'one' LH
d. /òkpà / 'cock' LL
```

Two level tones, (high, low), and the falling contour tone are identified for Esan at the systematic phonetic level of representation. These patterns are illustrated as follows.

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d. / àmễ / 'water' LL
e. / únữ 'mouth' HL
f. / àbâ / 'father' LHL
g. /óxwô/ 'woman' HHL
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Following Ikoyo-Eweto (2016), Nouns in Esan are mostly bisyllabic and trisyllabic. Bisyllabic nouns exhibit four tonal combinations: LL, HL, LHL and HHL. Adjunctives, described as lexical units used to extend the meanings of other lexical items, bear an all L tone pattern in citation. Numerals in Esan are either bisyllabic or polysyllabic. The cardinal numerals bear HL and LH(L) while the ordinal numerals (excluding the first) bear an all L tone pattern in citation. Deictics are lexical items which specify individual persons, things or ideas. Personal pronouns and the first dimension of demonstratives and place adverbs bear an all L tone pattern. The second dimension of place adverbs and demonstratives bear a LH, while the third bears a HLHL tonal pattern in citation.

Ikoyo-Eweto (2016) draws attention to the grammatical role of tone in Esan and emphasizes the interaction of tone and time relations in the language. This grammatical role of the phenomenon of tone in Esan, where it acquires the status of a morpheme as has been identified in related languages, would be taken into consideration in the relevant sections of this paper.

### **Esan Serial Verb Constructions (SVCS)**

Data in 3 and 4 show compilations of some Esan SVCs in Esan orthography and IPA format. The writing system captures nasality as the 'n' alphabet in word final position and at the completion of all phonological processes involving nasality in the word. Data in 3 comprise the asymmetrical while 4 list symmetrical SVCs.

3. <b>s/n</b>	constituent ve	•	metrical Esa phonetic n form	
a.	dè # mùn fall catch		-	ò dé mú ólèn' contiguous 'he fall catch him' 'he came across him unexpectedly.'
b.	sàn # rà jump over	sàn rá 'overcome (challe	[sã ra] enge)	ò sán rá òlòghò contiguous 'he jumped cross flood' 'he crossed over the flood'
c.	nệ#wìlì run lost	nè wílí 'abscund'	[nε wili]	
d.	rè#kpὰ use assist	rè kpá 'assist'	[r̃ɛ kpa]	ò ré kpá ìmèn contiguous 'he use support me' 'he assisted me'
f.	rệ#hùmwùn use pardon	rệ hùmwùn pardon	[rɛ huŋũ]	ò ré hùmwùn ólè contiguous 'he use pardon him 'he pardoned him'
g.		nè tán 'spread'(clothes o		è né íkpòn tán non contiguous 'he take clothes spread 'he spread clothes (on the line)'

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h.	rìè#sò take shout	rìè só scream	[rje so]	ò ríé só 'he take shout' '	contiguous
i.	sò#tìè	sò tíé 'call loudly'	[so tje]	ò só tíé ìmèn	
j.	mù#ré carry come	mùn ré bring	[mũ re]	mùn ómòn rè 'carry child come'	
k.	dè#gwòghò fall break	dè gwóghó 'to have a bad fall'		] ò dé gwòghò α 'he fall break pst' '	contiguous he had a bad fall'

4. s/	n constituent verb in citation		l Esan SVCs phonetic form	Esan sentence	constituent order
a.	dè # mùndìὰ fall stand up	dè mùndíá 'survive danger experience'		ìmèn dé mundìà 'I fall sta 'I survived th	and'
b.	gbè#lè kill eat	gbè lé 'get a bonus'		gbé émwìn lè e kill something eat	
c.	rìè # yèn take suckle	rìè yén [1 'suckle breast' 'to be pampere	' 'child	n rjé éyèn yèn no l take breast suck' e child suckled breas	-
d.	rìè # lè take #eat	rìè lé 'eat up'		jé ótìện lè no ke cherry eat 'he has	on-contiguous s eaten up the cherry'
e.	rìè # dὰ take #drink	rìè dá ' drink up'	[rje da] ò		non contiguous 'he drank up the wine'
	rìè # yò ake #wear			ré ríé èwù yò no ré take dress wear 'o	on contiguous ófùré has dressed up'
g.	nèn # lè defecate #eat	nèn lé 'fall into disrep		nén ìsòn lé he defecate feces	non contiguous s eat 'he ate his feces'
	dìgùẹ` # tùệ bend# knee greet	dìgùe` túe´ 'greet on bend		ò dígùè túé ìmèn 'he kneel greet m	contiguous e' 'he greeted me on bended knee'
	rìè # gbèrὰ take #bypass	rì èlò gbèrá 'ignore/overloo		ò rjé èlò gbèrá ólè 'he take eye pass	contiguous over him 'he ignored her'
	rìè # gbèrὰ take # walkpast	rìè gbèrá 'pass by bris 'surpass'		ìjónì ríé gbèrá 'John take pass' 'John passed by br	

### Some features of Esan SVCs

Available data show that constituents of Esan SVCs undergo some structural changes when they co-occur as serial verb constructs. These changes affect syllable structure and tonal

patterning of Esan SVCs. Specifically, input syllable structures and tonal patterning on verbal constituents are sometimes altered when verbal elements co-occur in SVCs. These occurrences are presented and discussed as follows.

### Syllable structure of Esan SVCs

In addition to submissions from previous treatments of the Esan SVC, that it is mostly constituted of two monosyllabic verb stems which result in a bisyllabic structure, (Ikoyo-Eweto, 2005), findings from the present study show that an Esan SVC may also be constituted of a mono-syllabic and a bi-syllabic verb stem, to produce a tri-syllabic structure. These occurrences are illustrated from available data as follows.

Esan SVCs composed of two monosyllabic verbs

5. s/n input verl in citation	os svc in citation	phonetic form	Esan sesntence syllable structure
a. gbè#lè kill#eat	gbè lé 'get a bonus'	[gbe le]	
b. rìè # yèn take # suckle	rìè yén 'suckle breast'	[rje ŋɛ̃]	ómòn ríé éyèn yèn CCV.CV child take breast suck 'the child suckled breast'
c. nèn # lè defecate #eat	nèn lé 'fall into disrepute, disgrace	[ñɛ le]	ò nén ìsòn lé CV.CV he defecate feces eat 'he ate his feces'

The illustrations in 5 show Esan SVCs, each composed of two monosyllabic verbal items as reported in earlier studies on the composition of Esan SVCs. This composition results in bisyllabic structures as demonstrated in their phonetic transcription. These SVCs bear a CV.C(C)V bi-syllabic structure. However, the present study further shows that SVCs in Esan may also be composed of a monosyllabic and a bi-syllabic verb to yield tri-syllabic structures. Illustrations of this SVC type are presented in 6.

Esan SVCs composed of a monosyllabic and a bi-syllabic verb

6. s/n input verbs in citation	s svc in citation	phonetic form	Esan sesntence	e syllable structure
a. 'nệ#wìlì'	nè wílí	[nɛ#wili]	ò nén wìlì à	CV.CV.CV
run# lost	abscund		he run loss pst. 'l	ne got missing in flight'
<ul><li>b. dè#gwòghò</li></ul>	dè gwóghó	[degwoyo]	ò dé gwòghò à	CV.CCV.CV
fall # break	to have a bad	fall'	he fall break pst	'he had a bad fall'
c. dè # mùndíá	dè mùndíá	[de mũdja]	ìmèn dé mundìà	CV.CV.CV
fall#stand up	'survive dange	erous	I fall stand	
	experienc	ce'	'I survived the fall'	
d. dì#ígùè#tùè	$\upsilon$	[digwe twe]	ò dígùệ tùệ ìmện	
bend# knee# gree	et 'greet on be	nded knee'	'he kneel greet n	ne' 'he greeted me on bended'

The illustrations in 13 show that Esan SVCs also occur as tri-syllabic structures, which feature CV.CCV.CV syllable structures. This observation is an improvement on previous studies on Esan SVCs which describe them as mainly bi-syllabic.

### **Tonal patterning on Esan SVCs**

Of the grammatical moods and time frames which the Esan language describes, two moods and one aspectual frame capture some tonal modifications displayed by Esan SVCs. These include the declarative and imperative moods and the habitual aspect. Available data show that when bi-syllabic and tri-syllabic SVCs, whose verbal constituents bear an all L tonal pattern in citation respectively, occur in the aforementioned sentence types in Esan, these tone patterns are modified. These tonal modifications are usually different from tone patterns featured by the individual constituents of the SVCs when used singly in separate sentences. Illustrations of these occurrences are presented from available data as follows.

### Tonal changes on bi-syllabic Esan SVCs

An Esan SVC constituted of two monosyllabic verbs is bisyllabic and features a LL tonal pattern underlyingly. It undergoes tonal modifications in sentence modes as follows.

#### **Declaratives**

In sentences which express simple statements, Esan bisyllabic SVCs of both the contiguous and non- contiguous variety, change tonal pattern from an underlying LL to a HL at the surface level as illustrated in 7.

### Tone pattern on bi-syllabic Esan SVCs in statements

7.	verbs in citation	contiguous SVC	non -contiguous SVC	s phonetic form	unde tor	rlying ne	surface tone
a.	•	ò nén lè 'he defeacate eat'	•			HL ate/disgra	ce'
b.	rìè# sò take shout	ò ríé sò 'he take screamed	nil d'	[rje so]	LL	HL	
c.	gbè# lè kill eat	<ul><li>ò gbé lè</li><li>ò c</li><li>'he kill eat'</li><li>'h</li></ul>	gbé émwìn lè [ ne kill something e		LL nus'	HL	
	•	mò ríé yèn o'mo child take suckle'		0 0 -	LL	HL	
	dè# mùn fall catch		nil m' 'he came acros		LL edly.'	HL	

The change in tonal patterning of SVCs in Esan highlighted in 14 is further buttressed by data in 15 showing that the individual verbal constituents behave differently when used in

isolation, in similar sentence type. In this case, these verbs which also feature a L tone underlyingly, exhibit a falling contour or an all H pattern at surface level. This occurrence further emphasizes the tonal change that occurs when these verbs constitute SVCs. These occurrences are illustrated as follows.

### Tone pattern on constituents of bi-syllabic SVCs used singly in declaratives

8.	verbs in citation	Esan sentence	phonetic form	underlyin	g tone surface tone
a.	nèn	ìmè nện	[ñe le]	L	HÎL
	defecate	I defecate pst 'I d	defecated'		
b	. lè	ómò lê	[le]	L	HÎL
	eat	child eat pst 'the	child ate'		
c.		ò ríé èrèbhé	- • -	L	Н
	take	he took all 'he	took everything'		
d		ò lè wó só		L	Н
	shout	he do shout 'he	e is shouting'		
e.	gbè	à hí gbé íbhó		L	Н
	kill	we neg kill in	nocent 'the innocen	nt is not puni	shed'
f.	yèn	ò yén fò		L	Н
	suckle	he suckle finis	sh 'he has finished	d suckling'	
g.	dè	• •	[de]	L	Н
	fall	do neg again fa	ll 'don't fall anyn	nore'	
h	. mùn	ò mún ónì	óyì [mũ]	L	Н
	catch	he catch the th	ief 'he has caught the	he thief'	

### **Imperative**

In sentences which express command, the second verbal constituent in a contiguous bisyllabic SVC bears a H tone, resulting in a LH tonal pattern, whereas in the non-contiguous type, the underlying LL pattern of the constituent verbs is maintained except where the first or second verbal constituent is contiguous with a H tone bearing unit. In this case, it's L tone is raised to a H, resulting in a HL or LH tone pattern. This tone raising is traceable to the effect of the H of the following tone bearing unit of the object as provided by autosegmental phonology tenets. These occurrences are illustrated in 9.

	Tone pattern on bi-syllabic Esan SVCs in imperative sentences							
9.	verbs in citation	contiguous SVC	non contiguous SVC	phonetic form				
	a. nèn#lè (LL) defecate#eat	, , , ,	(úwe´) nèn ìsòn lè! (LL) (you sing.) defecate feces of eat your feces!	[nɛ̃ le] eat				
	b. rìè#sò (LL) take#shout	(íbhά) rìè só! (LH) (you plu.) take shout	nil . 'scream!'	[rje so]				

c.	gbè#lè (LL) kill# eat	(úwe') gbè lé! (LH) (you sing.) kill eat! 'get a bonus!'	(úwε') gbé émwìn lè! (HL) [gb (you sing.) kill something eat ' get a bonus!		
d	. rìè#yèn (LL) take# suckle		we') rié éyèn ye'n! (HL) [r (you sing.) take breast suckle ' suckle breast!'	je ŋɛ̃]	
e.	dè#mùn (LL) fall #catch	(you plu.) 'fall catch'	(íbhά) dè mú ólện! (LH) (you plu.) 'fall catch him.' 'take him by surprise!'	[de mũ]	

#### Tone patterns on constituents of bi-syllabic SVCs in imperatives

<b>10.</b> v	rerbs in citation nèn defecate	Esan sentence phonetic form (úwε´) nèn! [nε̃] (you sing.) defecate Defecate!	<b>underlying tone</b> L	surface tone L
b.	lè eat	(íbhά) lè! [le] (you plu.) eat! Eat!	L	L
c.	rìè take	(úwε´) rìè! [rje] ( you sing.) take! Take!	L	L
d.	sò shout	(íbhά) sò! [so] (you plu.) shout! Shout!	L	L
e.	ĝbè kill	(úwε´) gbè! [gbe] ( you sing.) kill! Kill!	L	L
f.	yèn suckle	( íbhά) yèn! [ɲε̃] (you plu.) suckle! Suckle!	L	L
g.	dè fall	( úwε') dè! [de] (you sing.) fall! Fall!	L	L
h.	mùn catch	(íbhά) mùn ! [mũ] (you plu.) catch! catch!	L	L

#### **Habitual structures**

Mathews (2007) defines aspect as verbal categories that distinguish the status of events in relation to periods of time as opposed to their simple location in the present, past or future. Of the temporal aspects which the Esan language features, the habitual aspect is significant for tonal changes in Esan SVCs. Specifically, in the habitual structure which is marked by the Aspectual Auxiliary marker (AAM) /mí/ in this language, bi-syllabic SVCs feature an all H tone pattern. This occurrence is observed with both contiguous and non- contiguous SVC types as illustrated in 11.

### Tone pattern on bi-syllabic Esan SVCs in the habitual aspect

11. Verbs in	contiguous	non	contiguous	phonetic	underlyi	ng Surface
citation	SVC	5	SVC	form	tone	tone
a. nện#lè	mí ómó nén lé	mí ómó	nện ísọn lé	[ñe le]	LL	H
defecate #eat	aam child defec	ate eat	aam child det	fecate eat		
<b>'</b> 1	the child gets disg	raced'	'the child eat	s his feaces'		
b. rìè#sò	mí ómó rjé só		nil	[rje so]	LL	нн
take#shout	aam child take sh	nout		-		
	'the child screams	s'				
1.41	// / .1. / 1/		1. 7. 7	f.1. 1.1	T T	11.11
•	ní ómó gbé lé m nm child kill eat a	_			LL	НН
	he child gets a bo			· ·		
	are came goes a co.		ie eiiiia geus a			
d. rìè#yèn	mí ómó ríé yén	mí ć	ómó rjé éyén y	/ę́n [rje με̃]	LL	НН
	aam child take su					
'th	e child gets pamp	ered!'	'the child suc	ckles breast		
e. dè#mùn	mí ó dé mún ó	ilàn	nil	[de mũ]	LL	нн
fall# catch	aam he fall cat	•	1111	[de mu]	LL	пп
Tann Catch	'he takes him by		e'			
		P110	-			

This all H tone patterning could be attributed to the influence of the initial H tone of the AAM /mi/ in the language. However, the occurrence of the SVC constituents in isolation in similar context presents a different picture. In these structures, the verb constituents retain their underlying L tone. Data in 11 illustrate this occurrence.

### Tone pattern on constituents of bi-syllabic SVCs in the habitual aspect.

12. verbs in ci	tation Esan sentence	phonetic form	underlying tone	surface tone
a. nèn defecate	mí ómò nèn aam child defecate ' the child defecates'	[ñe ]	L	L
b. lè eat	mí ómò lè aam child eats the child eats	[ le]	L	L
c. rìè take	mí ómò rìè aam child take 'the child takes'	[rje]	L	L
d. sò shout	mí ómò sò aam child shout 'the child shouts'	[so]	L	L
e. gbè kill	mí ómò gbè aam child kill ' the child kills'	[gbe]	L	L
f. yèn suckle	mí ómò ye`n aam child suckle	[ɲɛ̃] 'the child s	L suckles'	L

g.	dè fall	mí ómò dè aam child fall 'the child falls'	[de]	L	L
h.	mùn catch	mí ómò mùn aam child catch 'the child catches'	[mũ]	L	L

The occurrence illustrated in 12 buttresses the differing behaviour of tone on these verbs when they constitute SVCs in the language.

### Tonal changes on Tri-syllabic Esan SVCs

An Esan SVC constituted of one monosyllabic and one bisyllabic verb stem is trisyllabic and bears a LLL tonal pattern underlyingly. It undergoes tonal modifications in sentences as follows.

#### **Declaratives**

Esan Trisyllabic SVCs of both the contiguous and non-contiguous variety feature a HLL tone pattern in declaratives, even when they take an object. This occurrence is irrespective of the positioning of the constituent verbs in the SVC. This tone pattern is different from the LLL pattern which they bear in citation. Illustrations of these occurrences are presented in 13.

13.	Tone p Verbs in citation		yllabic Esan SVC non contiguous SVC			g Surface tone
a.	dè # gwòghò fall # break	<ul><li>ò dé gwògh</li><li>he fall bre</li><li>'he fall very b</li></ul>	ak	[cycwg bb]	LLL	HLL
	dè # mùndìὰ fall # stand	ò dé mùndìà he fall stan 'he survived	d	[de mũdja]	LLL	HLL
c.	rìè # gbèrὰ take#bypass	he	é èlò gbèrà ólè e take eye bypass 'he ignored him'		LLL	HLL
d.	dìgùẹ` # tùệ kneel greet		ò dígùè túé ìmo     t he kneel greet i     od 'he genuflecte     o	me	ε] LLL	HLL
	rệ#hùmwùn ake #pardon	ò ré hùmwùn he take forgive 'he forgave'		[re humî	i] LLL	HLL
<b>f.</b> 1	rè#hùmwùn take# pardon	ò ré hùmwùn he take forgiv 'he forgave h	re him	[re humû	i] LLL	HLL

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However, a  $\widehat{HL}$  (falling contour) pattern mostly results on the final syllable of both the mono and bi syllabic verbal constituents of the SVCs when they occur individually in declaratives as illustrated in 14.

Tone patterns on individual constituents of tri-syllabic Esan SVCs in declaratives.

14.	verbs in citati	on Esan sente	ence phonetic form	underlying to	ne surface tone
a.	dè fall	<ul><li>ò dê</li><li>he fall pst.</li><li>'he fell'</li></ul>	[de]	L	HÎL
b.	gwòghò break	<ul><li>ò gwòghô</li><li>it break pst.</li><li>' it broke'</li></ul>	[cycwg]	LL	нL
c.	mùndìà stand	<ul><li>ò mùndíà</li><li>he stand pst.</li><li>'he stood'</li></ul>	[ mũdja]	LL	HÎL
d.	rìè take	ò ríê he take pst. ' he took'	[rje]	LL	HÎL
e.	gbèrà pass by	<ul><li>ò gbérâ</li><li>he pass by pst</li><li>'he passed by'</li></ul>	[gbera]	LL	нL
f.	dìgùẹ` kneel	<ul><li>ò dìgúệ</li><li>he kneel pst</li><li>' he knelt'</li></ul>	[digwɛ]	LL	нÎL
g.	tùè greet	<ul><li>ò túê</li><li>he greet pst</li><li>'he greeted'</li></ul>	[twε]	LL	HÎL
h.	rè use	ò rệ he use pst ' he used'	[re]	LL	нÎL
i.	hùmwùn pardon	ò hùmwûn he forgive pst. he pardoned	[humu]	LL	нÎL
j.	nèn run	<ul><li>ò nệ</li><li>he run pst.</li><li>'he escaped'</li></ul>	[nε]	LL	HÎL
k.	wìlì loss	<ul><li>ò wílì</li><li>he loss pst</li><li>'he is missing'</li></ul>	[wili]	LL	HL

### **Habitual structures**

In the habitual aspect, trisyllabic Esan SVCs feature a HLL and an all H tone pattern in contra distinction to their underlying all L tone pattern in citation. The difference in the resulting tone pattern may not be unconnected with the segmental composition of the affected syllables. The syllables which bear the final L tones comprise heavier back vowels while those which bear the final H tones comprise lighter front vowels.

Tone pattern on tri-syllabic Esan SVCs in the habitual aspect						
15.	verbs in citation	-	non contiguous SVC		underl tone	lying Surface tone
		mí ó dé gwògh aam he fall br 'he does have a ba	oò nil reak	[de gwyyɔ]	LLL	HLL
b.	dè # mùndìὰ fall stand	mí ó dé múnd aam he fall sta 'he survives a fa	nd	[de mũdja]	LLL	ННН
		ú ὁ ríé gbérά n aam he take bypass he by passes	aam he take ey		LLL	ННН
d.	kneel greet	mí ó dígúé túé aam he kneel gre 'he genuflects in gr		[digwe twe]	LLL	ННН
e.	-	mí ó ré hùmwi aam he take forg 'he forgives'	·	[rɛ huŋũ]	LLL	HLL
f.	nện#wìlì run loss	mí ó nén wili aam he run loss 'he absconds'	nil S	[ñe wili]	LLL	HLL

The all L underlying tone pattern is retained when monosyllabic and bi-syllabic constituents of tri-syllabic Esan SVCs are used separately in the habitual temporal aspect. This occurrence is illustrated in 16.

Tone patterns on constituents of tri-syllabic SVCs used singly in habitual structures.

16. verbs in citation	on Esan sentence	phonetic form	underlying tone	surface tone
a. dè fall	mí ó dè aam he fall ' he falls'	[de]	L	L
b. gwòghò break	mí ó gwòghò aam it break 'it breaks'	[cycwg]	LL	LL
c. mùndìà	mí ó mùndìà	[mũdja]	LL	LL

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stand	aam he stand			
d. rìè take	mí ó rìè aam he take 'he takes'	[riɛ]	LL	LL
e. gbèrὰ pass by	mí ΄o gbèrὰ aam he pass by 'he passes by'	[gbera]	LL	LL
f. dìgùẹ` kneel	mí ó dìgùe` amm he kneel 'he kneels'	[digwe]	LL	LL
g. tùệ greet	mí ó tùệ aam he greet 'he greets'	[twɛ]	LL	LL
h. rè use	mí ó rè aam he use he uses	[rɛ]	LL	LL
i. hùmwùn forgive	mí ó hùmwùn aam he forgive 'he forgivess'	[humu]	LL	LL
j. nèn run	mí ó nèn aam he runs	[ñ̃e]	LL	LL
k. wìlì loss	mí ó wìlì aam he loss 'he gets missing'	[wili]	LL	LL

### Conclusion

This study has examined serial verb constructions (SVCs) in the Esan language. Its aim was to identify syllable structure and tonal patterns of this grammatical construct in the language. This effort closes some gaps in the study of SVCs in Esan as previous studies were concerned with general syntactic and semantic features of these constructs in the language. Contemporary treatments of SVCs separate them into the asymmetrical and symmetrical types. The contiguous and non-contiguous varieties, which may cut across these two main groups of SVCs are also indicated. Available data showed that Esan features the symmetrical and asymmetrical types of serial verbs construction.

The present study faults earlier treatments of Esan SVCs as comprising only two monosyllabic verbs, making them bi-syllabic. In this regard, this study shows that an Esan SVC may also be tri-syllabic as it may be constituted of a monosyllabic and a bi-syllabic verb stem.

An examination Esan SVCs in this study showed a change from the all low tonal pattern on Esan verbs in citation, when they co-occur as SVCs. These changes affect verbs in the declarative and imperative moods as well as verbs in the habitual temporal aspect. These observations are summarized as follows.

- ➤ In declaratives, Esan bisyllabic SVCs of both the contiguous and non-contiguous variety, change tonal pattern from an underlying LL to a HL.
- Esan Trisyllabic SVCs of both the contiguous and non-contiguous variety feature a HLL tone pattern in declaratives, even when they take an object. This occurrence is irrespective of the positioning of the constituent verbs in the SVC. This tone pattern is different from the LLL pattern which they bear in citation. Illustrations of these occurrences are presented in 2a.
- In imperatives, the second verbal constituent in a contiguous bi-syllabic SVC bears a H tone, resulting in a LH tonal pattern, whereas in the non-contiguous type, the underlying LL pattern of the constituent verbs is maintained except where the first or second verbal constituent is contiguous with a H tone bearing unit. In this case, it's L tone is raised to a H, resulting in a HL or LH tone pattern.
- ➤ In the habitual structures, bi-syllabic SVCs feature an all H tone pattern. This occurrence is observed with both contiguous and non-contiguous SVC.
- ➤ In the habitual aspect, trisyllabic Esan SVCs feature a HLL and an all H tone pattern in contra distinction to their underlying all L tone pattern in citation.

This study is a contribution to the study of serial verbs construction in the Edoid group of languages. It closes some gaps in the study of SVCs in Esan and would enhance studies on the grammar as well as the documentation of the language.

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