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#### Research Article

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# Diachronic study of phonological changes in the Tiv language

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**Abstract:** All levels of language analysis are prone to changes in their phonology, morphology, graphology, lexis, semantics and syntax over the years. Tiv language is not an exception to this claim. This study investigates various aspects of phonological or sound changes in Tiv language. This paper therefore classifies sound changes in Tiv; states causes of sound changes in Tiv and explores implications of sound changes. The research design used in this paper is purposive sampling of relevant data. The instrument used in this paper is the observation method in which the author selected words that showed epenthesis, deletion and substitution. It has been noted that the use of archaic spellings in the Modern Tiv literatures shows their ancientness. Phonological change is not a deviation but a sign of language growth and changes in spellings result in changes in sounds. The author recommends that scholars should write papers or critical works on lexical/morphological, syntactic, semantic, graphological changes in Tiv language. Students should

write projects, dissertations and theses on language change and diachronic linguistics. This study introduces Tiv historical linguistics and diachronic phonology which serve as catalysts for the study of Tiv language. The understanding of Tiv sound change provides students with a much better understanding of Tiv phonological system in general, of how Tiv phonology works and how the phonemes fit together.

**Keywords** – Diachronic, Epenthesis, Linguistics, Monophthongisation, Phonological change, Synchronic, Tiv Language

#### 1. INTRODUCTION

Tiv, a major language that is spoken in Benue State of Nigeria, has tripartite connotations: the language itself is called Tiv Language; the tribe is also named a Tiv tribe and the progenitor of the Tiv race – ancestral father. The available literatures have shown that the Tiv language which was used in hundreds of years had undergone several changes in its phonology, graphology/orthography, morphology, syntax and semantics. It is clear that Tiv language existed in oral form for centuries before the White reduced it to its written form.

However, it is very cumbersome to categorically state the evolutionary changes that Tiv language had undergone. This uncertainty stemmed from the fact that there is paucity of research or critical works on diachronic or historical linguistics and language change in Tiv. The revised edition of the Icighan Bibilo (2017) provided some of the changes that Tiv language had evolved. Recently, Aor (2020a) treated phonological effects and functions of English loan-



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words on the Tiv grammar. His study dwelled mostly on the phonological implications that such borrowed words have on the Tiv language. The author did not dwell on the sound change. Again, Aor (2020bcde) discussed phonosemantic study of English-Tiv false-friends, graphological deviations in the Icighan Bibilo, onomatopoeias as a source of word formation in Tiv, effects and functions of epenthesis in the Tiv phonology, reduplications in the Tiv grammar: classifications and functions. None of the above studies mentioned language change or historical linguistics.

Considering the pervasiveness of sound change in the Tiv grammar, this study attempts to investigate various aspects of phonological or sound change in Tiv language. Language changes in Tiv are mainly conspicuous in its phonology which cannot be ignored in a hurry. This paper therefore classifies sound change; states causes of sound change and explores implications of sound change in Tiv language.

#### 2. LITERATURE SURVEY

For the ease of understanding this paper, there are two concepts that need to be reviewed. These concepts include diachronic or historical linguistics and phonological or sound changes.

#### 2.1. Diachronic or historical linguistics

Aitchison (1992:287) asserts that diachronic and synchronic were formed in 20th century from Greek *diâ* (through) and *sùn* (together), respectively, and *khrônos* (time). Aitchison therefore defines diachronic linguistics as the study of the history of language. Campbell (1998:4) asserts that historical linguistics deals with language change. Crystal (2008:142) avers that in diachronic linguistics, languages are studied from the point of view of their historical development. O'Grady, Archibald and Katamba (2011:272) define historical linguistics as the 'description and explanation of language change.' Diachronic linguistics is sometimes called *historical linguistics* or *linguistic diachrony*. The primary concern of a historical linguist is to study various aspects of language change. Campbell's definition of diachronic linguistics is vitally important in this study.

The changes which have taken place in what the author designated as Old Tiv (OT) and Modern Tiv (MT) could be described in phonological, graphological, morphological, syntactical and semantic terms as diachronic phonology, graphology, morphology, syntax and semantics. Dimmendaal (2011:48) states that the purpose of diachronic phonology and the interpretations of innovations should indeed be to understand change not only in terms of a system undergoing it, but also in terms of the system that gave rise to it. Dimmendaal claims that phonological change does not just occur in any language but there are certain factors that engender such changes.

#### 2.2. Phonological or sound change

All levels of language analysis are susceptible to change over time. According to Bisang, Hock and Winter (2009:8) and Millar (2015:48), sound change refer to changes in pronunciation of words. O'Grady, Archibald and Katamba (2011, 274) maintain that language variations or changes are particularly noticeable in the phonology of a language. Phonological change is synonymous with *sound change*. The author sees phonological change as an alteration from the segmental and suprasegmental features of any given phonology. These alterations may be as a result of elision, epenthesis, metathesis and substitution of sounds to the words that did not have such sound segments. Additionally, the introduction of certain diacritics such as tones – High ['], Low ['], Mid [-] or [\_], High-Low ['], Low-High [''] to the existing words may result in different pronunciations or meanings.

Hickey (2006: 203) observed that some of the [sound] changes were motivated by reanalysis on the part of language learners and some by gradual shifts in pronunciation by adult speakers. O'Grady, Archibald and Katamba (2011: 274) categorised sound change into sequential changes (assimilation, dissimilation, epenthesis, deletion and metathesis); segmental change (deaffrication) and auditory based changes (substitution) ( $\theta$  - /t/; /z/ - /s/ and /r/ - /l/). Millar (2015: 48) classified phonological change into two broad types: 'change in the sequence of speech sounds



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representing the pronunciation of a particular word or groups of similar words and the consequences of such change for the phonological system of an entire language. Phonological change is a main concern of diachronic linguistics.

#### 2.3. Literary survey

Studies on Tiv diachronic linguistic and language change are hard to come by. The researcher has not stumbled on any study or a book chapter that discussed phonological, graphological, morphological, syntactic and semantic changes in Tiv language. The author, being a native speaker and reader of Tiv language, has been able to observe from the available standard literatures that Tiv language had changed over time. Toryem and Gbaaikyo (2013: 63) emphasize that '...the Tiv Bible seemed to be the only standard reference book for the Tiv grammar' and the revised edition of the *Icighan Bibilo* (2017) contains some of these changes. Some of the graphological changes are: hiihii - hii hii (Gen. 1:1) means beginning,  $kaa - k\underline{aa}$  (Genesis 3:1) refers to said, ikese - ikyese (Ex. 2:3) is basket and ruamabera - rwamabera (Ex. 24:7) means scroll. The first example separates the two syllables [hii hii]; second example has subscript mark to indicate mid tone  $[k\underline{aa}]$ ; the third example involves palatal insertion y [ikyese] and the last example replaces |v| with |v|.

Lexical or semantic changes are also found in the revised edition of the *Icighan Bibilo* when compared with the old edition of the *Icighan Bibilo* (2007). For example, *tabernakel – iyol i tenti* (Ex. 26:1): tabernacle; *tasa – pelengi* (Num. 7: 67); *lwese – gbangi* (Num. 7:67): plate; *gbangbang – bokoti* (Is. 5: 10): bucket, *terafim – amboravungu* (Hos. 3:4): ancestral pipes; *umasa – ukuese* (Ezekiel 4:12): barley cakes. Continued reading of the new version of the *Icighan Bibilo* will soon send the former words to the department of semantic change! Furthermore, sound change may be as a result of doubling vowels such as *bang* and *baang* (scarlet), *wang* and *waang* (immaculate), *ihundu* and *ihuandu* (dust); palatal insertion as in *iveren – ivyeren* (blessing), *ihom* and *ihyom* (hatred); deletion of vowels and consonants as in *zough – zou* (obtain), *shighe – shie* (time), *uwegh – wegh* (hand) and *uwua – wua* (guinea corn) and phonemic substitutions: *lumun – rumun* (accept), *Mlumun – Mrumun* (I accept), *nombol/nombul – nombor* (tongue) and *ipira – ipila* (violence).

The above review indicated that there are changes in spellings of some Tiv words; some words that were once in vogue are gradually giving way to new ones and the sounds of some words have changed due to vowel and consonantal insertions, deletion of segments or syllables, replacement of sounds and phonemic substitutions. Lack of scholarly works to classify sound changes in Tiv, state causes of sound changes in Tiv and their implications propelled the author to embark on this study.

#### 3. PROBLEM STATEMENT

All living human languages are susceptible to changes in their phonology, graphology, morphology, syntax and semantics over the years. These changes provide fertile ground for learners and speakers to add new lexical items that are in vogue and replace certain spellings that were faulted – thus enhancing correct pronunciations of words. Graphology and phonology tower above other changes in the grammar of Tiv. It has been noted that native and nonnative speakers of Tiv language write Tiv words haphazardly as if there is there is no convention guiding Tiv words. However, it is clear that Tiv literatures that were written for over one hundred years differed from what is seen in the contemporary Tiv books. By way of illustration, Icighan Bibilo (The Holy Bible) that was written and published in 1966 greatly differed from its revised edition that was published in 2017.

An investigation into the study of Tiv language reviewed that there are paucity literatures on language change or diachronic linguistics. Diachronic linguistics is partially ventured into simply because it is energy-sapping and difficult to come by. As a result of this, it is highly cumbersome to cite any scholarly works on Tiv diachronic linguistics generally and diachronic phonology in particular, to add credence to this study. Sequel to the above claim, this paper attempts to fill the research gap that has existed in the diachronic study of phonological change in Tiv language by classifying sound changes in Tiv; stating causes of sound changes in Tiv and exploring implications of sound changes.



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#### 4. RESEARCH METHODOLOGY OR METHODS

The design used in this paper is purposive (non-probability) sampling. This sampling method involves deliberate selection of words that showed phonological changes. The selection was based on those words that involve addition, subtraction, replacement or transposition of phonemes.

The instrument used in this paper is through observation method. The authors picked sampled words that differ as result of a segment. The sampled words constituted primary data whereas journal articles and textbooks relevant to this study comprised secondary data. The author intuitively jotted down those words that showed epenthesis, deletion and substitution. After the classifications of epenthesised, deleted and substituted words, they are presented in tables and analysed. To facilitate a meaningful interpretation of the raw information obtained through observation, a qualitative analysis of the data was carried out on each of the study objectives which are to:

- a. classify sound changes in Tiv;
- **b.** state causes of sound changes in Tiv;
- c. explore implications of sound changes.

#### 5. DATA ANALYSIS AND DISCUSSIONS

This section deals with the causes of sound change such as auditory simplication, spelling pronunciation, analogy and language contact. It also classifies sound change in the Tiv grammar which comprises deletion, epenthesis and substitution. Lastly, this section discusses the effects of sound change in the Tiv grammar.

#### 5.1. Causes of sound change in Tiv language

Phonological changes occur in human languages. Some of the changes may be general while others may be peculiar to individual languages. O'Grady, Archibald and Katamba (2011:274-276) identified articulatory simplication, spelling pronunciation, cognitive factors (analogy and reanalysis), language contact as causes of language change. Most of the causes of sound changes identified by the above authors are vitally important in this study.

#### Articulatory simplication

Articulatory simplication is one of the causes of sound change in Tiv language. It entails that sounds change to ease articulation. This change is made possible when letters are added, deleted, or substituted so as to enhance easy pronunciation. Good examples of articulatory simplification are epenthesis, elision and substitution. In order to reduce the complex nature of articulating amngbian (relation) and amngbianev (relations), a voiced bilabial nasal /m/ is deleted in the MT spelling. In the standard MT orthography, the above two words are written as angbian and angbianev respectively. Additionally, vowels that were pronounced in the OT are now deleted in the MT to facilitate articulation of such words. For example, letter *i* in *ityôikyaa* (reason) and *uijuan* (joints) are elided for the easy of pronunciation thus having new forms as *ityôkyaa* (reason) and *ujuan*.

Furthermore, for the ease of pronunciation, letter y is inserted between consonants and vowels. Some native speakers and non-native speakers mispronounce words that were (are) not written with y /j/. To enhance proper articulation of *ihom* (hatred), *ikaior* (the youth), *igungu* (hill) and *ikur* (nation) there is a need to insert y in the OT spellings to become *ihyom*, *ikyaior*, *igyungu* and *ikyur* respectively. Lastly, substitution of phonemes is another cause of sound change. Most words that r and l were interchanged in the OT are now written with an l. The second edition of the *Icighan Bibilo* (2017) reflects this change. For example, *ipiṛa* (violence), *suṛe* (died), *yeṛ* (call), *tebuṛ* (table) contained an r in the OT spellings but the preferred spellings are ipiḷa (violence), suḷe (died), ye೬ (call) and tebu೬ (table).



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#### Phonography or spelling pronunciation

According to McArthur (1992: 772), phonography is 'the art or practice of writing so as to represent sound as precisely as possible. Phonography is also known as phonetic spelling. In spelling pronunciation, words are pronounced to reflect more closely the spelling of words. The insertions of *i* in place of *e* in *Lea* (OT) and *Lia* (MT) for Leah and *a* in lieu of *er* in *Eseter* and *popeler* (OT); *Eseta* and *popela* (MT) spellings for poplar approximate the pronunciations of the above words than their former spellings. Another example of spelling pronunciation is the lengthening of vowels to represent their pronunciations. The use of single vowels in *dang* (bad), *eng* (pure, immaculate), *ving* (quietness), *bong* (to stare), *dông* (tightly/tenaciously), *ihundu* (dust) does not reflect their actual pronunciations in the OT. In a bid to approximate or represent the actual pronunciations of the aforementioned words, double *aa*, *ee*, *ii*, *oo*, *ôô* and *uu* are used thus resulting in *daang*, *eeng*, *ving*, *boong*, *dôông* and *ihuundu*. This is graphically represented in the table below:

**Table 1:** Phonetic spellings involving vowel lengthening

	Old Tiv	Mod	lern Tiv	Examples of	English
Word	Transcription	Word	Transcription	Phonemes	Gloss
dang	/dæŋ/	daang	/da:ŋ/	/æ/ & /a:/	bad
eng	/eŋ/	eeng	/e:ŋ/	/e/ & /e:/	immaculate
ving	/vɪŋ/	viing	/vi:ŋ/	/I/ & /I:/	quietness
bong	/bɒŋ/	boong	/bo:ŋ/	/p/ & /o:/	to open wide
dông	/dəŋ/	dôông	/dɔ:ŋ/	/ɔ/ & /ɔ:/	tightly
ihundu	/ɪhʊndʊ/	ihuundu	/ɪhu:ndʊ/	/ʊ/ & /u:/	dust

#### Analogy as a cause of sound change

Analogy shows the preference of speakers for regular patterns over irregular ones as in  $\underline{u}$ takerada –  $\underline{i}$ tyakeda (books) and  $\underline{i}$ k $\hat{u}$ laghen –  $\underline{i}$ ky $\hat{u}$ rlaghen (prosperity). The u in  $\underline{u}$ takerada shows plurality in the old version of the  $\underline{I}$ cighan  $\underline{B}$ ibilo as seen in the Book of Jeremiah chapter 32:14. The author(s) of this book had  $\underline{f}$ alse analogy that most plural nouns in Tiv are formed by the addition of  $\underline{i}$  before the stem. However, the MT plural formation of  $\underline{t}$ akeda (book) is  $\underline{i}$ tyakeda (books) which is preferred to  $\underline{u}$ takerada. The spelling of  $\underline{i}$ k $\hat{u}$ laghen which was used in Psalm 73:3 of the old edition of the  $\underline{I}$ cighan  $\underline{B}$ ibilo has replaced with its modernised spelling as  $\underline{i}$ ky $\hat{u}$ rlaghen. The former was discarded because there is an absence of palatal insertion  $\underline{i}$ ; there is a substitution of an  $\underline{r}$  with an  $\underline{l}$  and a presence of hyphen in the middle of single word.

#### Language contact

The contact English and Tiv people had resulted in extensive borrowing of English loan-words. The process of obtaining new words from another language is called borrowing. Loan-words come with new phonemes that the recipient languages may not have. O'Grady, Archibald and Katamba (2011:274-276) affirmed that the introduction of new phonemes or allophones and changes in their distribution are the effects that borrowing has on the sound system. It is obvious that Tiv language does not have voiceless inter-dental fricative so it is easier for words that have  $th/\theta/t$  to be written as voiceless alveolar stop /t/. For instance, the following words with  $t/\theta/t$  are pronounced /t/ below:

**Table 2:** Phonemic replacement of English  $\theta$  with Tiv /t/

English Word	Transcription	Loan-word	Transcription	New Phoneme
Esther	/esθə/	Eseta	/esetæ/	/t/
Ethiopia	/і:Өіәиріә/	Etiopia	/etɪɒpɪæ/	/t/
Methuselah	/məθju:zələ/	Metusela	/metuselæ/	/t/



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Nazareth	/næzərəθ/	Nasareti	/næsæretɪ/	/t/
Nathaniel	/nəθænɪə/	Nataniel	/nætænɪel/	/t/
Ruth	/ru:θ/	Rutu	/roto/	/t/
Seth	/seθ/	Setu	/setu/	/t/
Timothy	/tɪməθɪ/	Timoteu	/tɪmɒteʊ/	/t/

Generally, languages have to change so as to accommodate new phonemes that are alien to the receiving language. It is imperative to reiterate that sound changes in Tiv language are occasioned by articulatory simplication, phonography or spelling pronunciation, analogy and language contact. The next section is the classification of sound change in Tiv.

#### 5.2. Classification of sound change in Tiv

#### 5.2.1. Deletion or elision as a sound change process in Tiv grammar

Deletion or elision occurs when the sound that was pronounced in the Old Tiv (OT) is lost or deleted in the Modern Tiv (MT). Elisions have been discussed based on two parameters: *kinds* of deleted segments and *positions* of elided segments. Kinds of deleted segments comprise *vowel* and *consonant* deletions. Positions of elided segments dwell on *aphaeresis* (initial deletion), *syncope* (medial deletion) and *apocope* (final deletion).

#### Deletion of vowels (Monophthongs)

Monophthong deletion deletes only one vowel. In the MT, the vowel letters that were pronounced are not even written in the contemporary standard orthography. The non-inclusion of vowels in certain words has resulted in the monophthong deletion. This kind of deletion is captured in the table below:

**Table 3:** Monophthong deletion in the modern Tiv

Old Tiv	Modern Tiv	Deleted Vowels	Gloss
ikyarikyase	ikyarkyase	I	trembling
ityôikyaa	ityôkyaa	I	reason
uijuan	ujuan	I	joints
uwegh	wegh	и	hand

The above table has shown that letter i is susceptible to deletion. For instance, ikyarikyase,  $ity\hat{o}ikyaa$ , uijuan and uwegh have four, four, three and two syllables respectively in the OT but with the deletion of i and u in the MT as shown in the above four words – ikyarkyase,  $ity\hat{o}kyaa$ , ujuan and wegh – now have three, three, two and one syllables each.

#### Diphthong deletion or reduction

Some syllables or words that were considered diphthongs in the OT but such segments are now deprived of vowel cluster. A process of converting or changing a diphthong to a monophthong is referred to in this paper as *de-diphthongisation* or *monophthongisation*. Diphthong deletion is prevalent in words that have *ou* or *ough* combinations. Some examples of diphthong reduction are presented in the table below:

Table 4: Diphthong reduction in modern Tiv

Old Tiv	Modern Tiv	Deleted Vowels	Gloss
akaahôngorough	akaahôngorogh	и	abominable things
ikônough	ikyônogh	и	chair/ throne
louji	Loji	и	sickle
tyough	tyogh	и	head



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The above table indicated diphthongs have been changed to monophthongs. The deletion of *u* in *akaahôngoro<u>u</u>gh*, *ikôno<u>u</u>gh*, *lo<u>u</u>ji and <i>tyo<u>u</u>gh* reduces diphthong /ou/ to a monophthong /v/ in the following words: *akaahôngorogh*, *ikônogh*, *loji* and *tyogh*.

#### Deletion of consonants

Apart from monophthong and diphthong deletions, consonants are also elided. Some words that were written with diagraph gh/y/ are now written without such a diagraph. This deletion is presented in the table below:

Table 5: Deletion of consonants in modern Tiv

Old Tiv	Modern Tiv	Deleted Consonants	Gloss
anigheni	anieni	Gh	Eight
gbulugh gbulugh	gb <u>u</u> lu gb <u>u</u> lu	Gh	completely
nzughul	Nzuul	Gh	confusion
shighe	Shie	Gh	time; period
shough shough	shou shou	Gh	Tender

In the aforementioned words, diagraph gh is deleted. The presence of gh / $\gamma$ / in Tiv words does not have much effect. The phoneme / $\gamma$ / in the Tiv phonology is highly contested. A handful of scholars acknowledged its existence; other scholars bracketed it as a phoneme in Tiv and some scholars doubted its existence and importance. Those scholars that supported its existence cannot realise the so-called / $\gamma$ / sound in words that have gh. Interestingly, deletion of gh in the aforesaid words does not affect its syllabic structure.

Table 6: Number of syllables in old tiv and new Tiv

Olo	d Tiv	Mode	rn Tiv	Number of Syllables
Word	Transcription	Word	Transcription	
Anigheni	/ænɪenɪ/	anieni	/ænɪenɪ/	3
gbulugh gbulugh	/gbulu gbulu/	gb <u>u</u> lu gb <u>u</u> lu	/gbulu gbulu/	4
Nzughul	/ŋzu:l/	nzuul	/ŋzu:l/	1
Shighe	/shie/	shie	/shie/	1
shough shough	/ʃου ∫ου/	shou shou	/ʃου ∫ου/	2

#### Aphaeresis in modern Tiv

The deletion of initial segment (vowel or consonant) is called aphaeresis. In the contemporary Tiv language, initial letters that were pronounced are now muted or silenced. Words whose initial letters were realised are now written without such letter and they are written the table below:

Table 7: Aphaeresis in modern Tiv language

Old Tiv	Modern Tiv	Vowel Deletion	Meaning
agbaga	gbaga	A	prostitute
agbinde	gbindegh	A	of viper
иwagh	wagh	И	river/ stream
иwar	war	И	grave
иwegh	wegh	U	hand
uwer	wer	и	month
игио	wo	и	mountain
ишиа	шиа	и	guinea corn

It is indisputably clear that the deletion of the initial *a* and *u* in the above seven words shortened their syllables in the MT spellings and pronunciations. For example, *agbaga* and *agbinde* which were trisyllables in the OT are now



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bisyllables in the MT. Again, uwagh, uwar, uwegh, uwer and uwua that were bisyllables in OT are now monosyllables in MT.

#### Syncope in modern Tiv

Syncope is the cancelling or deletion of a segment in the middle of words. Words whose medial letters were in the OT are now silenced in the MT. In Tiv language, all consonants and vowels are susceptible to deletion. This is presented below:

Table 8: Syncope in modern Tiv

Old Tiv	Modern Tiv	Deleted Letters	Meanings
Amngbian	angbian	m	relation
Amngbianev	angbianev	т	relations
Ateghôtôutu	Ateatôutu	gh	mid night
Abiyatar	Abiatar	y	Abiathar
anigheni	anieni	gh	eight
Uikuwan	ukyuan	i & w	rivers, brooks
Mbaihomov	mbahyomov	i	enemies
nzughul	nzuul	gh	confusion
Shighe	Shie	gh	time
Taaikyôngo	taakyôngo	i	wilderness

The above table showed that both consonants can be deleted in the middle of words. For instance, in *amngbian* and *amngbianev*, there is a deletion of *m* which reduces the cluster of *mngb* to *ngb*; *gh* is elided in *anigheni*, *nzughul*, *shighe* which resulted in new spellings of words such as *anieni*, *nzuul* and *shie*. The insertion of letter *y* in the OT has been deleted in the MT spelling and letter *i* is deleted in *ukyuan*, *mbahyomov* and *taaikyongo*. *Mbaihyomov* and *taaikyongo* which were quadrasyllables in the OT are now trisyllables in MT.

#### Apocope in modern Tiv

Apocope is a deletion of the final sound – vowel or consonant – in words. Diagraph gh is often deleted at the end of words. When gh is deleted at the end of the words, it changes a close syllable to an open one. Few examples of apocopations in MT are written below:

Table 9: Apocope in modern Tiv

Old Tiv	Modern Tiv	Deleted Letters	Meanings
gbulugh gbulugh	gb <u>u</u> lu gb <u>u</u> lu	gh	completely
Ough	ou	gh	your
Zough	Zou	gh	obtain

The deletion of gh diagraph does not affect the pronunciation of the above words; it only 'smoothens' their articulation. A deletion gh does not reduce the number of syllables but its absence changed the close syllables to open syllables. Generally, OT orthographic system permitted gh in the spellings of the above words but MT does not allow the inclusion of gh.

#### 5.3. Epenthesis as a sound change process in Tiv grammar

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Epenthesis a universal phonological process in which a segment is added to an existing word for breaking consonant clusters, for repairing hiatus, for plurality and for questioning in Tiv language. This paper discusses vowel and consonant epentheses.

#### Vowel epenthesis and lengthening in modern Tiv

The primary role of vowel epenthesis or insertion is the conversion or lengthening of short vowels to long vowels. This lengthening involves the addition of similar vowels to the existing ones. The addition of vowels does not change the meanings and the syllables of the existing words. It only affects the duration of articulation such words. Graphological changes have equally affected the realisation of the sounds. Native speakers of Tiv may articulate *bang* or *baang* (scarlet) and *côhin* and *côhiin* (little) by lengthening their pronunciations. However, based on the orthographies of the OT and MT, the shortening and lengthening processes are contrasted below:

Table 10: Vowel lengthening in MT

Old Tiv	Modern Tiv	Vowel Lengthening	Gloss
bang	Bang	/æ/ & /a:/	scarlet/red
bong	Boong	/p/ & /o:/	to open wide
côhin	Côhiin	/ɪ/ & /ɪ:/	little
dang	Daang	/æ/ & /a:/	bad
dông	Dôông	/ɔ/ & /ɔ:/	tightly
eng	Eeng	/e/ & /e:/	immaculate
fing fing	fiing fiing	/ɪ/ & /ɪ:/	dizzily
gagh	Gaagh	/æ/ & /a:/	fast
gbev	Gbeev	/e/ & /e:/	stumbling block
gbong	gboong	/p/ & /o:/	loud shouting
imagh	imaagh	/æ/ & /a:/	building
iniav	Iniaav	/æ/ & /a:/	sacrifices
kweng	kweeng	/e/ & /e:/	bottomless
mbautyav	mbautyaav	/æ/ & /a:/	soldiers
nagh	Naagh	/æ/ & /a:/	sacrifice
tsung	Tsuung	/ʊ/ & /u:/	craving/ greatly
ving	Viing	/ɪ/ & /ɪ:/	quietness
wang	Waang	/æ/ & /a:/	pure/immaculate

The above table has shown that in most words used single vowels which resulted in short vowels whereas the MT spellings doubled similar vowels which cause the above words to be longer in duration. For instance, bang - baang, dang - daang, gagh - gaagh, imagh - imaagh, iniav - iniaav, mbautyav - mbautyaav, nagh - naagh and wang - waang changed short a/e/ to long aa/e:/ and eng - eeng, gbev - gbeev, kweng - kweeng converted e/e/ to ee/ei/. Furthermore,  $c\hat{o}hin - c\hat{o}hiin$ , fing fing - fiing fiing and ving - viing change short i/i to long ii/i:/; bong - boong and gbong - gboong converted short o/v/ to long oo/o:/. Lastly,  $d\hat{o}ng - d\hat{o}\hat{o}ng$  changed short  $\hat{o}/o$ / to long  $\hat{o}o/o$ :/.

#### Consonant insertions in modern Tiv

There is overkill of *palatal* insertion /j/ in the MT words. In the OT orthography, most of the words that are now written with palatal epenthesis were not. The revised edition of the *Icighan Bibilo* (*The Holy Bible*) contains such changes. The insertion of voiced palatal consonant 'smoothens' the pronunciation of words that bear them. Examples are shown below:



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Table 11: Consonant Insertions in modern Tiv

Old Tiv	Modern Tiv	Epenthetic Sound	Gloss
adiguve	adigyuve	j	harp
bughpupu	byughpupu	j	violent splashing
ifan	Ifyan	j	curse
iferor	ifyeror	j	evil person
igo	Igyo	j	pig
igungu	igyungu	j	hill
ihom	Ihyom	j	enmity
ikaior	ikyaior	j	the young
ikav	Ikyav	j	goods
ikese	ikyese	j	basket
ikôm	Ikyôm	j	corpse
ikon	Ikyon	j	tree
ikondo	Ikyondo	j	cloth
ikônough	Ikyônogh	j	chair
ikov ikov	ikyov ikyov	j	generations
ikua ikua	ikyua ikyua	j	near
mbaihomov	mbahyomov	j	enemies
ипа	Wuna	W	granary

The above table showed that palatal insertion does not come at the beginning of words and at the end of words. Palatal epenthesis constitutes medial consonant clusters such as by/bj/, fy/fj/, gy/gj/ and ky/kj/. Lastly, there was no w in una (barn or granary) in the OT spelling but there is an insertion of w in the MT. The insertion of bilabial approximant w/y provides onset to wuna.

#### 5.4. Substitution as a sound change process in Tiv grammar

Substitution is a replacement of one sound with another. This study hinges on vowel and consonant substitutions. Examples of substitutions are drawn from Tiv, English loan-words and of course Hausa words. The range of selection is so wide because some English and Hausa words have become part of Tiv vocabulary.

#### Substitution of vowels in the MT

An in-depth reading of the old and revised versions of the *Icighan Bible* and other classical literature in Tiv revealed that the original letters of some words have been replaced with other spellings. Vowel substitution in MT is graphically presented in the table below:

Table 12: Substitution of vowels in the MT

Old Tiv	Modern Tiv	Vowel Epenthesis	Gloss
Eseter	Eseta	/e/ & /æ/	Esther
Kaara	Keela	/a:/ & /e:/; /r/ & /l/	there
Igbenda	Igbinda	/e/ & /ɪ/	ways or roads
Lea	Lia	/e/ & /ɪ/	Leah
popeler	Popela	/e/ & /æ/	poplar
Rehobiam	Rehoboam	/ɪ/ & /ɒ/	Rehoboam
Yerobiam	Yeroboam	/ı/ & /v/	Jeroboam
Utakerada	Ityakeda	/ʊ/ & /ɪ/	books

This substitution of letters could be as a result of approximating the pronunciation of words with their spelling as in *Eseter* and *Eseta*, *Lea* and *Lia*, *popeler* and *popela*. An average Tiv person will prefer the latter pronunciation – *Eseta*, *Lia* 



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and *popela* – to the former that ended in *er* and *ea*. For example, in the OT, *i* vowel substituted vowel *o Rehobiam* and *Yerobiam* respectively. However, in the MT letter *o* replaced the former letter *i* as in *Rehoboam* and *Yeroboam*. Lastly, the plural form of a book in the OT was *utakerada* but in the MT it is *ityakeda* – thus letter *i* substituted letter *u*.

#### Substitution of consonants in the MT

The most commonly substituted letter is l and r by the native speakers of Tiv. As far as the native speakers of Tiv are concerned, replacing l with r is not a phonological 'crime'. The first edition of the lcighan Bibilo substituted r with l and vice versa. However, the current edition of the lcighan Bibilo corrected that anomaly by preferring l in the place of r. It is paradox that the Dutch who reduced the Tiv language to writing could shuffle between r and l their spellings. The table below showed consonantal substitutions:

Old Tiv	Modern Tiv	Substitution	Gloss
Akula	Akwila	l & wi	Aquila
asorabo	asolabo	r & l	Sins
hira	hila	r & l	Temporary
igbira	igbila	r & l	Veins
iwuese	iyuese	w & y	Praise
iwuhe	iyuhe	w & y	Jealousy
ішиа	іуиа	и & у	Gift
mbara	mbala	r & l	They
ruamabera	rwamabera	и & w	Scroll
urugh	ulugh	r & l	pull, draw
yer	yel	r & l	name or call

**Table 13:** Substitution of consonants in the MT

#### Effects of sound change in Tiv language

Sound change has a lot of implications on phonological structure of Tiv language. Effects of phonological changes are shortening of syllables, converting close syllables to open syllables and vice versa, converting mono-consonants to consonant clusters, changing manner and place of articulation of phonemes, converting short vowels to long vowels, sound change causes lexical ambiguities.

#### Changes in syllable structures

Dimmendaal (2011:44) states that the various ways in which sound changes may affect the overall phonological structure of languages. He maintains that the phonological systems change, once the distribution of consonants or vowels and contexts where they are contrastive becomes affected. A close study of diachronic and synchronic sound change in Tiv indicated that syllables in some words were longer than the MT spellings. Shortening of syllables in the MT is shown in the table below:

Table 14: Syllable shortening in MT

Old Tiv	Modern Tiv	Deleted Syllables	Gloss
diamondi	diamon	di	diamond
Mbaromanu	Mbaroma	nu	Romans
takerada	takeda	ra	book

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The above table indicated that in the OT translation, diamondi has four syllables while its MT translation (diamon) has two syllables. The last syllable of diamondi - di – is thus elided. Additionally, Mbaromanu has four syllables in the OT whereas its MT counterpart contains three syllables. Finally, takerada, a quadrasyllables, is changed to trisyllables by deleting re syllable. The effect of sound change is therefore the shortening of syllables.

Sound change is responsible for changing open syllables to close syllables. An open syllable ends with a vowel or a combination of a vowel and an r. There are minute instances of this in sound change in Tiv. These examples are shown below:

**Table 15:** Changing open syllables to close syllables

Old Tiv		Modern Tiv		
Open Syllable	Transcription	Close Syllable	Transcription	Gloss
Tebur	/tebu:/	tebul	/tebul/	table
Tir	/t1:/	til	/tɪl/	stand
yer	/je:/	yel	/jel/	call

The above table showed that the presence of letter r in the OT spellings caused the preceding vowels to be longer. Letter l that comes at the end of MT does not elongate the preceding vowel. The above transcriptions indicated that the aforementioned MT words have close syllables.

Conversely, close syllables in some OT words that contained diagraph *gh* are now deleted in the MT thus resulting in open syllables. These words that changed close syllable to open syllables are: *shough shough, gbulugh gbulugh, zough* and *ough*. The table below illustrates this change.

Table 16: Changing close syllables to open syllables

Old Tiv		Modern Tiv		
Close Syllable	Transcription	Open Syllable	Transcription	Gloss
gbulugh gbulugh	/gbuluy gbuluy/	gbulu gbulu	/gbulu gbulu/	totally
Ough	/ουγ/	ои	/ou/	your
shough shough	/ʃουγ ∫ουγ /	shou shou	/ʃoʊ ʃoʊ/	greenish
Zough	/zουγ/	zou	/zoʊ/	obtain

Naturally speaking, the author does feel if there is a consonant after the aforesaid four words. Considering the irrelevance of *gh* diagraph in the OT words, the MT deleted *gh* thus reducing the close syllables to open syllables.

#### Conversion of mono-consonants to consonant clusters

Another effect of sound change in the phonology of Tiv is the conversion of mono-consonant to consonant clusters. This is the handiwork of palatal sound that is inserted a consonant and a vowel. When /j/ is inserted, it changes the single consonant to double consonant or consonant clusters. For instance, *igo* (pig), *ivo* (goat) and *ikua* (near) become *igyo* /ɪgjo/, *ivyo* /ɪvjo/ and *ikyua* //ɪkjoæ/.

#### Swapping of the place of articulation and the position of the tongue

Furthermore, diachronic and synchronic sound changes result in the swapping of place of articulations or position of the tongue. Words that bilabial, alveolar, velar may be pronounced as if they are labio-dental, palatal, glottal and so on. For example,

- a. Bilabial sound /w/ changed to palatal /j/ as in iwua to iwua (gift) and iwuese to iyuese (praise).
- b. Liquid/trill sound /r/ converted to lateral approximant /l/ as seen in hira to hila (temporary) and igbira to igbila (veins).



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- c. Half-close back vowel /v/ changed to a voiced bilabial sound /w/ as exemplified in *Akula* /ækvlæ/ to *Akwila* /ækwilæ/ (Aquila), *ruamabera* /rvæmæberæ/ to rwamabera /rwæmæberæ/ (scroll or Bible).
- d. Short half-close front vowel /i/ changed to short open front vowel /æ/ as evident in *Yeroboam* (Jeroboam) and *Rehobiam* to *Rehoboam* (Rehoboam).

#### Lexical ambiguities

The subtraction or addition of words may give rise to other words – thus resulting in superfluity of meanings. For instance, the deletion of u in MT word such as  $\underline{u}wua$  (guinea corn),  $\underline{u}wagh$  (river, stream, brook),  $\underline{u}war$  (grave),  $\underline{u}wegh$  (hand),  $\underline{u}wer$  (month) and  $\underline{u}wo$  (mountain) may give several interpretations. To cite examples, wua in the MT has the following meanings: guinea corn, to kill, to grind, ground (past tense of grind); war refers to as river, escape, grave, save, to grumble and so on.

#### 6. RESEARCH IMPLICATIONS

From the foregoing, it has lucidly demonstrated that this study is highly inexhaustible. That means much research has to be carried out on language change. The following research implications have been made:

- **a.** This study can be relevant to scholars who may want to work on lexical/morphological, syntactic, semantic, graphological changes in Tiv or other languages.
- **b.** The paper may be vitally important to students who may wish to write projects, dissertations and theses on language change and diachronic linguistics.
- **c.** This study will be of great importance to those researching in the Department of Nigerian or African Linguistics and English language.

#### 7. CONTRIBUTIONS TO SCIENTIFIC COMMUNITY AND FUTURE RESEARCH

- **a.** This paper introduces Tiv historical and diachronic phonology.
- **b.** The understanding of Tiv sound change provides students with a much better understanding of Tiv phonological system in general, of how Tiv phonology works and how the phonemes fit together.
- **c.** This study contributes significantly to other sub-areas of linguistics (phonetics, phonology, graphology) and to linguistic theory.
- d. This paper analyses the phonological implications of English loan-words on the Tiv grammar.
- **e.** The study contributes to study of the phonological changes in the Tiv language.

#### 8. CONCLUSION

The foregoing has indicated that language change is just a fact of life that cannot be prevented or avoided. Non-linguists might not know that Tiv phonology has undergone some changes. The study has laid it bare that epenthesis, elision and phonemic substitutions are the major phonological changes in Tiv phonology. Also, phonological change is not a deviation but a sign of language growth. It can be stressed that all levels of language analysis show how language changes. Additionally, a change in spelling causes a change in sound. Furthermore, vowel lengthening and palatal insertion reflect sound spellings; phonological changes affect vowel, consonant and syllabic structures. It has been observed that the spellings that were used in classical Tiv works differed greatly with the contemporary ones and the use of archaic spellings in the Modern Tiv literatures shows their ancientness.

Lastly, comprehending how sound change operates in Tiv language helps us to explain that diachronic linguistics is a major thriving area of linguistics and it should be given the role it has played and continues to play in contributing towards the primary goals of linguistics in general.



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