The associative copulative and expression of bodily discomfort in Northern Sotho

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Abstract
This article discusses one of the meanings expressed by the associative copulative construction with -na le, ‘have’ in Northern Sotho, namely to ‘physically experience discomfort’, ‘suffer from’ or ‘be ill with’ something. In light of alternative available verbs that are employed to express the same concept in specific ways, this article aims to investigate the occurrence of such alternative verbs, their semantic relationship with -na le ‘have’ and with each other. A lexical semantics investigation involving verb classes, selectional restrictions and paradigmatic sense relations reveals that -na le ‘have’ functions as a superordinate in a troponymy relationship with these verbs. It also shows that these verbs are not on the same level in the hierarchical scheme, placing -bolaya ‘kill’, -tshwenya ‘trouble’ and -swara ‘catch’/ ‘hold’ just below -na le ‘have’ as they select both body-part and affliction arguments. The rest of the verbs are positioned on a lower level, selecting either body-part or affliction.

Keywords: Associative copulative; verb classes; bodily discomfort; troponymy; Northern Sotho.

1. Introduction

The major Northern Sotho grammars identify -na as a copulative verb stem occurring in the associative copulative construction. Louwrens (1994: 40) asserts that, in some grammars, a distinction is drawn between the concepts copula and copulative, according to which the term copula is used to refer to the ‘linking’ prefix/verb only. Poulos and Louwrens (1994: 290) state that copulatives are “assigned different names depending on the type of information that they convey”. The associative copulative is one of either three or four types of copulatives, as distinguished by a number of Northern Sotho grammars. Lombard (1985), Louwrens (1991), Louwrens (1994) and Van Wyk et al. (1992) distinguish three types, namely the identifying, descriptive and associative copulatives. Poulos and Louwrens (1994), however, add the locational copulative to the aforementioned three (cf. also Lanham 1953), thus stating that there are four types. Poulos and Louwrens’ (1994) types, below1, illustrate the disparity regarding the number of types presented in these grammars:

1 The examples appear in the indicative mood, present tense, affirmative and negative.
Identifying copulative

(1)  
a. $Masese \text{ ke } \text{ morutiši}$  
1a-Masese COP-is 1-teacher  
“Masese is a teacher.”  
b. $Masese \text{ ga se } \text{ morutiši}$  
1a-Masese NEG.COP-is not 1-teacher  
“Masese is not a teacher.”

(2)  
a. $Lehodu \text{ ke } \text{ lenaba}$  
5-thief COP-is 5-enemy  
“A thief is an enemy.”  
b. $Lehodu \text{ ga se } \text{ lenaba}$  
5-thief NEG.COP-is not 5-enemy  
“A thief is not an enemy.”

Descriptive copulative

(3)  
a. $Masese \text{ o } \text{ bohlale}$  
1a-Masese 1SM 14-clever  
“Masese is clever.”  
b. $Masese \text{ ga a } \text{ bohlale}$  
1a-Masese NEG.1SM 14-clever  
“Masese is not clever.”

(4)  
a. $Serurubele \text{ se } \text{ bohlale}$  
7-butterfly 7SM 14-clever  
“A butterfly is clever.”  
b. $Serurubele \text{ ga se } \text{ bohlale}$  
7-butterfly NEG.7SM 14-clever  
“A butterfly is not clever.”

Locational copulative

(5)  
a. $Masese \text{ o } \text{ thabeng}$  
1a-Masese 1SM 9-mountain.LOC  
“Masese is on the mountain.”  
b. $Masese \text{ ga a } \text{ thabeng}$  
1a-Masese NEG.1SM 9-mountain.LOC  
“Masese is not on the mountain.”

(6)  
a. $Dikgomo \text{ di } \text{ nokeng}$  
10-cattle 10SM 9-river.LOC  
“The cattle are at the river.”  
b. $Dikgomo \text{ ga di } \text{ nokeng}$  
10-cattle NEG.10SM 9-river.LOC  
“The cattle are not at the river.”
The associative copulative

(7) a. Masese  o na le  maširanko
   1a-Masese  1SM COP.POSS-has  6-moustache
   “Masese has moustache.”

b. Masese  ga a na (le)  maširanko
   1a-Masese  NEG.1SM.COP.POSS-has not  6-moustache
   “Masese does not have moustache.”

(8) a. Selepe  se na le  mpheng
   7-axe  7SM COP.POSS-has  3-handle
   “An axe has a handle.”

b. Selepe  ga se na (le)  mpheng
   7-axe  NEG.3SM.COP.POSS-has not  3-handle
   “An axe does not have a handle.”

Examples (1.a) – (8.b) above reflect a variety of copulative constructions in Northern Sotho. Each copulative type is illustrated with subjects from different noun classes. As demonstrated by examples (1) and (2), the identifying copulative construction has an invariable copula ke ‘is’ or ‘are’ (negative: ga se ‘is not’ or ‘are not’), which is not affected by the change in the noun class of the subject. The rest of the copulatives include the subject agreement marker, and this is also evident in their variable character. Poulus and Louwrens (1994: 317) note that as far as form is concerned the locational copulative is “identical to the descriptive copulative, the only difference between the two being that the descriptive copula describes the subject in terms of a specific feature, whereas the locational copula expresses the locality in which the subject finds itself”. Hence, distinction between the two should be based on what they express rather than on the form they take. It is of importance that, in Northern Sotho, not all locational nouns are morphologically marked and also that not all nouns that are morphologically marked with locational affix -(i)ng necessarily express location, as is illustrated by the following two examples:

(9) Ramaite  o  Tshwane
   1a-Ramaite  1SM-is  Tshwane
   “Ramaite is in Tshwane.”

(10) Ramaite  o  mmeleng
    1a-Ramaite  1SM-is  3-body.LOC
    /Literally, Ramaite is on body/
    “Ramaite is pregnant.”

Tshwane is a place name, which does not need morphological marking to be interpreted as referring to location. The literal translation of (10) is that Ramaite ‘is on a body’. The problem with this meaning is that the body can only be hers, which does not make sense. This is a give-away that the meaning is not literal. What the expression means is that Ramaite is ‘with child’ or ‘pregnant’, which would be a typical description of her state of being rather than of her location. The foregoing examples demonstrate that the similarity of the descriptive and locational copulatives in form may be one of the sources of the disparity in the number of Northern Sotho copulatives mentioned above.
The associative copulative has a different form. While it contains the subject agreement marker, it is also identified by the copulative verb stem -na (Lombard 1985; Louwrens 1991, 1994; Poulos and Louwrens 1994; Du Plessis 2010; Ziervogel and Mokgokong 1975: 834), which is always followed by the associative preposition le, if it is in the affirmative. The associative copulative will be discussed separately in the next section.

2. **Associative copulative**

The associative copulative in Northern Sotho consists of the copulative verb stem -na, preceded by the subject agreement marker and followed by the associative prepositional phrase headed by preposition le. The associative preposition le is optional in the negative, but obligatory in the affirmative. This structure, SM-na-le-NP, forging a relationship of ‘association’ between the subject and the complement NP. The form -na is found in other Bantu languages (Batibo and Rombi 2016; Du Plessis 2010), also preceded by the subject agreement marker, but the preposition le, or any counterpart, is not necessarily available in other languages. Setswana and Sesotho are similar to Northern Sotho in form (cf. Batibo and Rombi 2016; Du Plessis 2010). Examples of other languages with -na as part of the associative copulative structure are isiXhosa (Du Plessis and Visser 1992; Du Plessis 1999), isiZulu (Hlongwane and Nkabinde 1998), Tshivenda (Mushiane 1999), Ikalanja (Letsholo 2012), Digo, Herero and Swahili (Gibson et al. 2019). Batibo and Rombi (2016) attribute the existence of the associative copulative, as it functions today, to the process of grammaticalization as it evolved from the Proto-Bantu linking word na, which means ‘and’ and ‘with’. In discussing the evolution of na in Bantu languages, Batibo and Rombi (2016) note that:

The two original functions of na, as marker of coordination or association of syntactic units, has been maintained in most Bantu languages. However, some languages have extended its use through the process of grammaticalization to assume other functions. The most common are:

From a coordinative to a copula

(Batibo and Rombi 2016: 73)

As far as Northern Sotho is concerned, the remnants of the original functions of -na, as described by Batibo and Rombi (2016), are fading away along with the spoken form used by the much older generations. This form is also difficult to find in written texts. Closer to this archaic function of -na is what Ziervogel and Mokgokong (1975: 834) identify only as “a connective formative before absolute pronoun”, where for example there is an option to shorten le yena ‘and him/her’ or ‘with him/her’ to naye. In Northern Sotho -na functions as a copula and every first language speaker will be familiar with this function in both spoken and written form. It is upon this function as copula, as observed by Batibo and Rombi (2016), that the current lexical study focusses. Although the verbal form -na may change according to mood and actuality, the form that will be used for illustration in this article is the principal form of the indicative mood, in the positive, as this is considered the basic form. When the mood or actuality changes, the copulative verb stem changes form too, such as in the following (b) examples where -na becomes -ba in the infinitive mood:
The associative copulative

(11)  
a. Ke na le pitša  
1P.SG.SM COP.POSS 9-pot  
“I have a pot.”
b. Go ba le pitša go lokile  
INF COP.POSS 9-pot INF.PRF-good  
“To have a pot is good.”

(12)  
a. Ke na le maphone  
1P.SG.SM COP.POSS 6-blisters  
“I have blisters.”
b. Go ba le maphone go palediša motho go šoma  
INF COP.POSS 6-blisters INF.CAUS-unable 1-person INF-work  
“To have blisters makes one unable to work.”

Semantic interpretation of the copulative with -na also shows similarities across the languages mentioned. Batibo and Rombi (2016) maintain that, in some languages, the original functions of the Proto-Bantu na have been extended to assume other functions, the most common of these being as a copula to express existential meaning, as a temporal aspectual marker, and to denote possession. Letsholo (2012: 7) identifies three main functions of na- as expression of existential meaning, the notion of possession and “the idea of being ‘with’ [is] often referred to as ‘associative’ meaning”. Du Plessis and Visser (1992) find that the interpretation of the copulative verb with na in isiXhosa is usually possessive. Domination of possessive interpretation is also expressed in Gibson et al. (2019).

Poulos and Louwrens (1994) and Taljard (2013) attest to the presence of two interpretations of the associative copulative in Northern Sotho, namely ownership/possession and association. Poulos and Louwrens (1994: 311) explicate that, depending on the context in which they are used, sentences such as the following can have one of two interpretations:

(13)  
Ke na le mpša  
1P.SG.SM COP.POSS 9-dog  
“I have a dog.”
or  
1P.SG.SM COP.ASS 9-dog  
“I am with the dog.”

Another semantic interpretation of the associative copulative, of interest to this article, is the expression of ‘suffer from’ or ‘be ill with’ something. It is debatable whether this is a separate significance – that is, if it relates to either possession or association, or to both of them. In other words, the question is whether suffering from an illness constitutes ownership of the illness or being in its company. The associative copulative expresses this sense in a general way in Northern Sotho. However, it is possible to express the same concept in different, specific ways using various verbs. These specific ways were examined, and the verbs involved recorded. This article aims to investigate the occurrence of such verbs and their relationship with the latter sense of the associative copulative in Northern Sotho. Questions such as the following needed to be answered: When and why is one verb preferred over another verb or other verbs to express a certain ‘bodily state and damage to the body’ (Levin 1993)? What argument selection do these verbs present? Are they substitutable by one another? What are the sense relations that hold between these verbs? What are the sense relations that hold between these verbs and -na le
‘have’? Answering these questions requires looking into concepts such as verb classes, sense relations and selection. The following section will briefly explain these concepts, and the remaining part of the article will analyse the data that relates to -na le ‘have’ as in ‘suffering from’ or ‘being ill with’ something using semantic feature analysis. The main semantic features that will guide the analysis in ascertaining selection patterns are body-part, affliction and bodily excretion.

3. **Verb classes**

The notion of verbs classes is explained by Levin (2009: 1) as “sets of semantically-related verbs sharing a range of linguistic properties, such as:

- possible realisation of arguments
- interpretation associated with each possible argument realisation.”

In keeping with the identified linguistic properties above, Levin (2009: 1) further cites Fillmore’s study of the verbs ‘break’ and ‘hit’ which demonstrate the significance of “verb classes as:

- devices for capturing patterns of shared verb behaviour
- a means of investigating the organisation of the verb lexicon
- a means of identifying grammatically relevant elements of meaning.”

According to Levin’s (1993) model of verb semantic classes used for English, a verb’s meaning influences its syntactic behaviour, and this can largely be determined from the alternation patterns of verbs. Levin (1993) distinguishes broader verb classes such as ‘verbs of motion’, which can further be classified into narrower classes such as ‘roll verbs’, ‘chase verbs’ and others. One of Levin’s classes is ‘verbs involving the body’. Under this class are several subclasses including ‘verbs of bodily state and damage to the body’, which further includes classes such as ‘pain verbs’. The current article discusses verbs that are commensurate with Levin’s (1993) English ‘verbs of bodily state and damage to the body’. In explaining the semantics of such verbs, Levin (1993: 226) states that “these verbs relate to the occurrence of damage to the body through a process that is not under control of the person that suffers the damage”. She further notes that this verb class takes body part objects that are possessed by the subject and is often restricted to a few specific body parts as objects.

Verbs that are in the broader sense expressible by -na le ‘have’ as in ‘suffer from’ or ‘be ill with’ in Northern Sotho will be considered for this discussion. Most of these verbs have primary meanings unrelated to ‘bodily state and damage to the body’, but have the additional semantic function of expressing specific forms of ‘suffering from’ or ‘being ill with’. Since classes of verbs are grouped on semantic grounds, it is worth looking into the notion of sense relations in order to determine their relatedness.
4. Sense relations

The sense of a linguistic expression is its meaning, or any one of its meanings, as seen from its relationship with other linguistic expressions in a language. Trask (2007) defines sense as the central meaning of a linguistic form, regarded from the point of view of the way in which it relates with other linguistic forms. He further notes that the sense of a linguistic form is often formalised as its “intension – that is, as the set (in the formal mathematical sense) of all the properties which an object must have before the form can be properly applied to it” (Trask 2007: 255). According to Crystal (2008: 432), sense is a “system of linguistic relationships which a lexical item contracts with other lexical items”. Semantics recognises that linguistic expressions exist and make meaning in a language by being in relation with one another. Sense relations are therefore semantic relations that hold between lexical items (cf. Palmer 1976; Lyons 1977). On a theoretical basis, a distinction is drawn between syntagmatic and paradigmatic sense relations2. Syntagmatic sense relation refers to the relationship that “a linguistic unit contracts by virtue of its combination (in a syntagm, or ‘construction’) with other units of the same level” (Lyons 1977: 240). Cruse (2000) notes that these linguistic units that occur in the same sentence also stand in an intimate syntactic relationship. Therefore syntagmatic relationships involve collocations and selections.

A paradigmatic relationship, on the other hand, “holds between a particular unit in a syntagm and other units which are substitutable for it in the syntagm” (Lyons 1977: 241). Paradigmatic sense relations include synonymy, antonymy, homonymy, polysemy, hyponymy, meronomy and troponymy. Among them are paradigmatic sense relations of identity and inclusion (Cruse 2000: 150-161). For example, hyponymy is a paradigmatic sense relation of identity and inclusion. A paradigmatic sense relation of inclusion holds between sense units that relate to each other in a hierarchical order, with the general sense unit called the superordinate (hyperonym) at the top, along with a number of subordinate units called hyponyms (cf. also Lyons 1977). Hyponyms are not synonymous, but they are used to express a shared general conceptual phenomenon (Brinton 2000). For example, motho ‘human being’ is a superordinate with hyponyms monna ‘man’, lesea ‘infant’, maphodisa ‘police’, molvetši ‘patient’ and ngaka ‘doctor’, which are co-hyponyms of each other. Hyponymy is a relationship of entailment – to say Y is a doctor suggests that Y is a human being, but the converse does not apply. Other sense relations of inclusion are meronymy and troponymy.

The term “troponymy” was formulated by Fellbaum (1999) in the context of WordNet3 specifically for predicates to denote a sense relation that refers to a manner of doing something or a manner in which something happens. Troponymy and meronymy are both sense relations of inclusion, but differ in that meronymy is a part-whole relationship while troponymy involves ‘a manner of doing something’. For example, nitlo ‘house’ is a superordinate with meronyms tlhaka ‘roof’, leboto ‘wall’, lebati ‘door’, and other component parts of a house. As a sense relation of inclusion, troponymy is characterised by a hierarchy and entailment. For example, the verb stem -bolela ‘speak’ as a superordinate has troponyms such as -hebaheba ‘whisper’, -kgakgana and -kgamakgametša ‘stutter/stammer’. It stands to reason that -hebaheba ‘whisper’ entails -bolela ‘speak’ but that the converse does not apply. Similarly, -sepela ‘walk’ has troponyms such as -nanya, ‘walk slowly’, -phakiša ‘walk hurriedly’, -gwataša ‘walk fast, defiantly or arrogantly’ -nanabela ‘walk with the aim of catching someone or something you

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2 Crystal (2008) includes derivational sense relations as well
3 http://wordnet.princeton.edu
stalk’, and several others. In terms of predicates that express bodily discomfort, the associative copulative with -na le ‘have’ seems to represent a superordinate in a troponymy relationship with several verbs that form the data for this article. Therefore, this article will look at the occurrence of those verbs and how they behave in relation to argument selection.

5. Selection

Selection, specifically s-selection in contrast to c-selection, refers to the inclination of the predicate to decide on the semantic content of its arguments. “S-selection is forced by the semantics of the governing verb” (Crystal 2008: 427). In the realm of ‘selection’ we encounter ‘selectional restrictions’ and ‘selectional preferences’, where co-occurrence is prohibited or preferred on semantic grounds. Trask (2007: 250) explains selectional restriction as “a restriction on the combining of words in a sentence resulting from their meanings”. An example of selectional restriction is a verb stem -nwa ‘drink’. The primary meaning of -nwa ‘drink’ can only select arguments with the semantic feature [+fluid] and is restricted from selecting arguments with the semantic feature [-fluid]. However, in extended metaphorical senses, argument selection may be widened. In Northern Sotho the concept of mammal birthing is represented by different words, depending on the mammal concerned. -belega selects [+human] arguments such as motho ‘person’ and mosadi ‘woman’; -tswala selects [-human] and [+bovid] such as kgomo ‘cow’ and pudi ‘goat’; -hlatsa (lit. ‘vomit’) selects [-human], [-hatching] and [-bovid] such as mpsa ‘dog’ and katse ‘cat’, which includes both canids and felids. To use the verb stem -tswala with motho ‘person’ in reference to a birthing process would be considered an insult, unless it appears in a non-literal or special type of context such as descent information and genealogy. Such contexts are most prevalent in traditional poetry, where the subject is usually [+ male], thereby excluding the literal birthing process. Similarly, the verb used to express being pregnant is -ima for a human being; -duša for a cow; -gwemehla for a dog; and -emere [stative past] for a scorpion.

6. Associative copulative construction with -na le ‘have’ and verbal expressions of bodily discomfort in Northern Sotho

As indicated earlier in this article, in their extended senses, the Northern Sotho verbs that will be considered here are generally commensurate with Levin’s (1993) verbs of ‘bodily state and damage to the body’. Such verbs were, first of all, identified by considering how else the concept of ‘suffer from’ or ‘be ill with’ could be expressed. This is generally expressed by the associative copulative with -na le ‘have’. The initial data was gathered from general knowledge of afflictions and how they are expressed in Northern Sotho. Alertness of usage in spoken language and searches of sources such as Ziervogel and Mokgokong (1975), the Northern Sotho Language Board (1988) and health-related documents followed. A list of possible arguments, such as names of afflictions, body parts that may be involved in physical discomfort and names of bodily excretions were also recorded. The associative copulative construction was examined, along with the recorded verbs, for selectional patterns, and semantic feature analysis was used to determine the kind of arguments that they prefer.

The following verbs were identified as expressing specific manners of -na le X ‘have X’, where X is either a body part, affliction or bodily excretion. Most of them have distinct primary
meanings that are not related to having any bodily discomfort, and those primary meanings are reflected in the accompanying literal English equivalents.

- bolaya ‘kill’
- swara ‘catch’/‘hold’
- tshwenya ‘trouble’
- opa ‘hit’/‘knock’
- rema ‘chop’,
- loma ‘bite’/‘sting’
- sega ‘cut’
- tšwa ‘come out’/‘appear’
- ela ‘flow’
- ruruga ‘swell’
- thunya ‘explode’
- hlohlona ‘itch’
- tšhatšhama ‘fry’
- hlaba ‘stab’

Addendums A, B and C contain examples of candidate complements\(^4\) of -na le ‘have’, categorised into body parts, afflictions and bodily excretions that were used to test selection preferences of -na le ‘have’ and specific verbs.

### 6.1 Active-passive encoding in Northern Sotho

Although statements expressing illnesses and other bodily discomforts may appear in active constructions, placing the illness or body part in the subject position, the alternation pattern that is observed with these verbs involves passive movement. To begin with, the verb for ‘being ill’ -babja is a passive form. The active form is -baba ‘bitter’, also ‘painful’, developed as follows through palatalisation:

\[(14)\]

\[
\begin{align*}
\text{a.} & \quad -baba & > & *babwa & > & -babja \\
\text{b.} & \quad Mmele & wa & ka & o & baba & nna \\
& \text{3-body} & \text{3.POSS-of 1P.SG-mine} & \text{3.SM} & \text{pain} & \text{1PSG} \\
& \text{‘My body pains me.’} \\
\text{c.} & \quad Ke & a & babja \\
& \text{1P.SG.SM-I} & \text{PRES-PASS-pain} \\
& \text{‘I am being pained/} \\
& \text{‘I am ill.’}
\end{align*}
\]

The active construction (14.b) demonstrates that the external argument is the body part or affliction and the internal argument is the [+animate] possessor of the body part or the sufferer of an affliction, respectively. Through passive movement, the original internal argument moves to the external argument position and the original external argument moves to the post-verbal position as the complement of agentive ke. The following examples illustrate this point:

\[^4\] The possibilities concerning what body part can be affected by which disease are endless.
The evolution of the passive form in spoken Northern Sotho sees constructions with an overt complement of agentive *ke* rendering the passive morpheme -(i)w- redundant. Therefore, example (15.b) above will be spoken as follows:

(16)  
\[ Ke \ loma \ ke \ mala \]
\[ 1P.SG.SM-I \ bite \ by-6-intestines \]
\[ /I am being bitten by intestines/ > /I am being pained by intestines/ \]
\[ “I have tummy ache.” \]

From example (16), above, the presence of agentive *ke* is sufficient to represent the passive form without inclusion of the passive morpheme -(i)w- in the verb. However, without any overt complement of agentive *ke*, inclusion of the passive morpheme -(i)w- becomes obligatory in order to capture the passive interpretation, for example:

(17)  
\[ a. \ loma > *lomw-a > longwa \]
\[ b. \ Ke \ a \ loma \]
\[ 1P.SG.SM-I \ PRES-bite \]
\[ “I bite.” \]
\[ c. \ Ke \ a \ longwa \]
\[ 1P.SG.SM-I \ PRES.PASS-bite \]
\[ “I am being bitten.” \]

For more on this phenomenon concerning the passive, refer to Kosch (2003). With the understanding that it is the spoken form that drops the morphological marking of passive sentences when the complement of the agentive *ke* is present, the examples in this article will retain the passive -(i)w-, consistent with the formal orthographical convention.

### 6.2 Verbs that select body parts

Examination of the listed verbs above found that the following three verbs\(^5\) have a narrower argument selection in comparison with the associative copulative \(-na \ le\ ‘have’, showing preference to both body-parts and affliction complements:

- *bolaya* ‘kill’
- *swara* ‘catch’/‘hold’
- *tshwenya* ‘trouble’

\(^5\) Only the verb stems will be used in this article since the full verb involves a host of different prefixes.
The verb stem -swara ‘catch’ or ‘hold’ illustrates, in the following example, the dual selection preference of this set of three verbs:

(18) a.  
Ke swerwe ke mokomane
I caught by flu
/I am caught by flu/ as opposed to “I caught flu.”
“I have flu.”

b.  
Ke swerwe ke leino
I caught by tooth
/I am caught by tooth/
“I have a toothache.”

c.*  
Ke swerwe ke madi
I caught by blood
/I am caught by blood/
“I have internal pain in the torso.”

Examples (18.a) and (18.b), above, demonstrate that -swara ‘catch’ or ‘hold’ selects both an affliction and a body-part, mokomane ‘flu’ and leino ‘tooth’, respectively. -bolaya ‘kill’ and -tshwenya ‘trouble’ may be substituted for -swara ‘catch’ or ‘hold’ in the same examples and, in a broader picture, also appear with other afflictions and body parts. (18.c) reflects selection of a bodily excretion, however the argument does not refer to the literal madi ‘blood’, and it therefore disqualifies swara ‘catch’/’hold’ for this category. In this context it refers to a type of illness. Other afflictions and conditions include pulmonary reflexes such as setheku/seseku/kgodiša ‘hiccup’ and gastro-oesophageal reflux seokolela ‘heartburn’, which, similarly, can be expressed by the verbs -swara, -bolaya and -tshwenya.

Other verbs seem to select either body-part or affliction, rendering themselves more restricted than -bolaya ‘kill’, -swara ‘catch’/’hold’ and -tshwenya ‘trouble’. For example, -opa ‘strike’ or ‘knock’, rema ‘chop’, loma ‘bite’ or ‘sting’, sega ‘cut’, tšwa ‘come out’ or ‘appear’, -thunya ‘explode’ and -hlaba ‘stab’.

The following verbs select body-part arguments, and are restricted to specific body parts:

-opa ‘strike’/’knock’
-rema ‘chop’
-loma ‘bite’/’sting’
-sega ‘cut’

(19) a.  
opa ‘strike’ > *opwa > opša ‘struck by’

b.  
Ke opša ke hlogo
I PASS-struck by head
“I have a headache.”

(20) a  
rema ‘chop’ >*remwa> rengwa ‘chopped by’

b.  
Ke rengwa ke hlogo
I PASS-chop by head
“I have a headache.”

http://spilplus.journals.ac.za
(21) a.  loma ‘bite’ >*lomwa > longwa ‘bitten by’
b.  Ke longwa ke mala
   I PASS-bite by intestines
   “I have a tummy ache.”

(22) a.  sega ‘cut’ > segwa ‘cut by’
b.  Ke segwa ke mala
   I PASS-cut by intestines
   “I have a tummy ache.”

Some of these verbs demonstrate an association with conceptualisation of the pain, such as in
the case of the types of tummy ache expressed by -sega ‘cut’ and -loma ‘bite’. The next verb
does not select body parts.

6.3  *-tšwa ‘come out’ or ‘appear’

-*tšwa ‘come out’ or ‘appear’ is restricted from taking body-part arguments. It also does not
select all afflictions, but only those that appear and can be visually attested to, including bodily
excretions. Such afflictions include mauwe ‘mumps’, digaroga ‘rash’, dišo ‘sores’, mookö
‘measles’, pudi ‘ringworm’, dikemola ‘acne’, and other conditions that are accompanied by
some outbreak, swelling or inflammation. -tšwa ‘come out’ or ‘appear’ also selects bodily
excretions, such as madi ‘blood’, boladu ‘pus’ and mamila ‘nasal mucus’. The past tense
of -tšwa is -tšwile < -tšw-ile, also written as -tšwele. The past tense expresses the state in which
the sufferer is, for example:

(23) Ke tšwele mauwe
   I came out mumps
   “I have mumps.”

(24) Ke tšwa boladu
   I come out pus
   “Pus oozes out from me.”

The following arguments may be substituted for mauwe ‘mumps’ in example (23) above:
sešo/dišo ‘sore(s)’ or ‘ulcer’, digaroga ‘rash’, sebabò ‘inflamed rash’, sekgalaka’ eczema’,
bogobe/sotho ‘kwashiorkor’, lentshwe ‘boil or abscess’, sesepedi ‘cancerous abscess or boil’,
sepšhatlapšhatlane ‘chickenpox’, mookö ‘measles’, lekhwekhwe ‘scab/scabies’, sekobonyane
‘smallpox’, (di)pudi ‘ringworm(s)’, dithaka ‘tonsils’, (di)kemola ‘acne’, lephone ‘blister’,
sepitoria ‘hardened skin on toes’, manga ‘winter’s feet’, magotšane ‘chapped skin’, malota
‘oral thrush’, phehli ‘felon’, menyabidi ‘allergic skin reaction’. These are all names of illnesses.
The semantic feature that binds these nouns together restricts selection of body-parts. For
example, hlogo ‘head’, would not be substituted for any of these nouns – the following sentence
would be silly and meaningless:

(25) *Ke tšwele hlogo
   I came out head
   or
   I appeared head
The difference between examples (23) and (25) is that a head does not suddenly appear because it is sore. Moreover, the appearance of a head does not visually differentiate between a person having a headache and the one who does not. Example (24) illustrates selection of a bodily excretion. Other, more specific words that express -tšwa ‘come out’ or ‘appear’ are -ela ‘flow’ and -rotha ‘drip’. Similarly they do not select body-part arguments. Examples:

(26)  
Ba ela madi
They flow blood
“Blood is flowing from them.”
(27)  
Ba rotha madi
They drip blood
“Blood is dripping from them.”

Examples (26) and (27) differentiate the manner or intensity of bleeding as a flow and a drip.

6.4 -thunya, -tšhatšhama, -hlohlona, and -hlaba

Closely related to the verbs in the previous discussion are the following verbs which, in a very narrow sense, express the manner of experiencing the pain or discomfort which will inevitably link to the body part likely to be so affected. The verbs are -thunya ‘explode’, as of tooth ache or painful bone, -tšhatšhama ‘fry’, literally, to cause the sound made by something roasting – in terms of pain this means to suffer burning pain on the skin, -hlohlona ‘itch’, -hlaba ‘literally, stab’, that is, to have a stab-like or stabbing pain:

The verb -thunya ‘explode’, which expresses a particular manifestation of pain, selects body parts such as the knee, wrist, shin, hip, collarbone and other bone structures. -thunya also selects other nouns discussed under -tšwa above, if the intensity of the pain is high. The following examples illustrate the selection:

(28) a. Ke thunywa ke leino
I PASS-explode by tooth
“I have a toothache.”
b. Ke thunywa ke ntho
I PASS-explode by wound
“My wound is painful.”
c. Ke thunywa ke lentshwe
I PASS-explode by abscess
“My abscess is painful.”
(29) a. Ke hlohlonwa ke seatla
I PASS-itch by hand
“My hand is itching.”
b. Ke hlohlonwa ke menyabidi
I PASS-itch by allergic skin reaction
“My allergic skin reaction is itching.”
(30) a. Ke tšhatšhamelewa ke menyabidi
I PASS-fry by allergic skin reaction
“My allergic skin reaction is burning.”
b. Ke tšhatšhamelewa ke molala
I PASS-fry by neck
“...my neck.”

c. Ke tšhatšhamelwa ke bogopa
I PASS-fry by stinging-nettle
“...from stinging-nettle.”

6.5 -hlaba ‘stab’

In its use of denoting bodily discomfort, the verb -hlaba ‘stab’ expresses a stabbing pain. In terms of illness, -hlaba ‘stab’ appears in metaphoric contexts, and it selects the nouns madi ‘blood’ and mašimatho ‘stitch’. The passive form is -hlabja < -hlabwa*. The following examples illustrate the usage of -hlaba ‘stab’ and its selectional preferences:

(31) a. Ke hlabja ke madi
I PASS-stab by blood
“I have a stabbing pain in my torso.”

b. Ke hlabja ke mašimatho
I PASS-stab by stitch
“I am experiencing stitch.”

7. Summary and future work

The discussion in this article is focussed on the function of -na as copula; yielding the construction SM-na-le-NP. The copulative construction with -na le ‘have’ is the general expression of ‘bodily state and damage to the body’ relating to various bodily discomforts. The concept can also be expressed through various verbs which assume additional senses over and above their primary meaning. The verbs -bolaya ‘kill’, -tshwenya ‘trouble’ and -swara ‘catch’ or ‘hold’ express bodily discomfort in senses narrower than -na le ‘have’, while selecting both body-part and affliction complements. Other verbs such as -opa ‘struck’, -rema ‘chop’ -loma ‘bite’ and -tšwa ‘come out’ or ‘appear’ demonstrate narrower selection than -bolaya ‘kill’, -tshwenya ‘trouble’ and -swara ‘catch’ or ‘hold’ in that they select either body-part or affliction. However, their selection is also confined to specific body parts. -tšwa ‘come out’ or ‘appear’ is restricted not only from body parts, but also from afflictions that are not visible. Hence, -tšwa ‘come out’ or ‘appear’ selects arguments that refer to conditions such as swelling, scalding and outbreaks.

The scenario with -na le ‘have’ and the rest of the verbs generates a hierarchy where -na le ‘have’ is the superordinate. The next level in the hierarchy is occupied by -bolaya ‘kill’, -tshwenya ‘trouble’ and -swara ‘catch’ or ‘hold’. The rest of the verbs are positioned on the third level in different groups, such as those that select only body-part arguments, those that select affliction arguments and -tšwa ‘come out’ or ‘appear’, which select only certain types of afflictions. This makes -na le ‘have’ a superordinate in a troponymy relationship where the other verbs are co-troponyms of each other. There are also verbs such as -thunya ‘explode’, -hlohlona ‘itch’, -tšhatšhama ‘fry’ and -hlaba ‘stab’ that express a manner of manifestation of a particular discomfort. These verbs seem to constitute a separate sub-class which needs to be investigated further and connected to the other sub-classes.
The intention is to continue to build on these lists of verbs and to improve the analysis into a more systematic one that is almost all-inclusive. Another point of interest would also be to look into the connection between the primary meanings of the verbs that are used for this extended sense, in order to determine how they relate to the conceptualisation of the pain or of the body part in which the pain is experienced.

References


Addendum A: Body-part

hlogo ‘head’
ka teng ‘in the abdomen’
lelahla ‘chest’
leihlo ‘eye’
lela ‘intestine’
monwana ‘finger’ or ‘toe’
nko ‘nose’
pshio ‘kidney’
tsebe ‘ear’

Addendum B: Affliction

AIDS AIDS
bolwetši ‘disease’
HIV HIV
bogobe ‘kwashiorkor’
digaroga ‘rash’
dithaka ‘tonsils’
hlogo ‘head’ – headache
hlogo ye kgolo ‘migraine’ & other severe types of headache – lit. ‘big head’
hlogwana ‘fontanelle’ – lit. small head
hlokofele ‘wart’
kankere ‘cancer’
kepela ‘acne’
kgolane ‘collarbone pain’
kholera ‘cholera’
khonse ‘corn’
lebadi ‘scar’
lefatla ‘hair loss’ or ‘bald’
lekhwekhwe ‘scab’ or ‘scabies’
lephant ‘shingles’ – only around waist
lepera ‘leprosy’
lephone ‘blister’
lešoko ‘labour pains’
letadi ‘malaria’
letšholo ‘diarrhoea’
letšwabadi ‘bunion’
madi-a-magolo ‘high blood pressure’
magotšane ‘chapped skin’
malota ‘oral thrush’
manga ‘winter’s feet’
mauwe ‘mumps’
menyabidi ‘allergic skin reaction’
mokohohlane ‘cold’
mokomane ‘flu’
monyalo ‘measles’ [euphemism --- /from lit. nyala ‘marry’/]
mooko ‘measles’
moriti wa letswele  ‘chest pain’
ntho  ‘wound’
pabolo/ ntho ya moll  ‘scald’
pehli  ‘felon’
pipelo (go bipelwa)  ‘constipation’
polio  ‘polio’
pudi  ‘ringworm’
sebab  ‘inflamed rash’
sefolane  ‘foot disease’
sehuba  ‘cough’
sekaku/lentshwe/lentsho/seku  ‘boil’ or ‘abscess’
sekgalaka  ‘eczema’
sekobonyane  ‘smallpox’
senapa  ‘hernia’
sekoolela  ‘heartburn’
sepitoria  ‘hardened skin on toes’
sepšhatlapšhatlane  ‘chickenpox’
sešemanyana  ‘stye’
sesepedi  ‘cancerous abscess or boil’
sešo – dišo  ‘sore(s); ulcer(s)’
setheku/sesekhu/kgodiša  ‘hiccup’
sotho  ‘kwashiorkor’
tatampua  ‘blister’
thaefote  ‘typhoid’
themo  ‘meningitis’
thosola  ‘syphilis’
tshehlomonwan  ‘athlete’s foot’
tšhilwane  ‘extended pains like labour pains experienced soon after childbirth’
tšhofela  ‘gonorrhoea’

**Addendum C: Bodily excretion**

(di) tete  ‘drooling saliva’
boladu  ‘pus’
konkodi  ‘snot’ / ‘dried nasal mucus’
lemila /lemina  ‘nasal mucus discharge’
madi  ‘blood’
mare  ‘saliva’
megokgo/ meekgo  ‘tears’
melaka  ‘eye discharge’/ ‘rheum’
merulane  ‘earwax’
sehuba  ‘sputum’/ ‘phlegm’