CONIUNCTIVUS MULTIFORMIS

Conjunctive Morphology in Late Coptic Recipes

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Résumé. Cette contribution traite de la diversité morphologique du paradigme du conjonctif en Copte. Ce dernier, bien connu comme un critère distinctif des dialectes littéraires, est ici étudié dans les variétés non standards des textes documentaires et des recettes coptes tardives. Les données conduisent à mettre en question l'image nette d'une distribution géographique continue des différents paradigmes morphologiques (§1). On se concentre alors plus spécifiquement sur les recettes coptes tardives, un genre textuel à peine édité et qui n'a, jusqu'à présent, pour ainsi dire pas été exploité d'un point de vue linguistique (§§2-3). À partir d'un relevé exhaustif des occurrences (§4), on décrit la variété des formes morphologiques pour chaque manuscrit (§2), avant d'examiner les motivations fonctionnelles (sémantiques et syntaxiques, ainsi que d'autres facteurs) qui permettraient d'expliquer la diversité formelle (§3).

Abstract. The following paper deals with the morphological variety of the Coptic conjunctive paradigm, well-known as a distinguishing feature of Coptic literary dialects, in the de-standardized language of Coptic documentary texts and late Coptic recipes. Both kinds of evidence heavily inquire the neat picture of a continuous spatial distribution of morphologically different paradigms (§1). The focus is put on late Coptic recipes, a sort of text which has scarcely been edited and even less exploited linguistically until now (§§2-3). Based on a comprehensive list of conjunctive instances (§4), the variety of morphologically different conjunctive forms is first described for each single manuscript (§2). Afterwards functional (semantic, syntactic) distinctions and other factors possibly triggering different conjunctive forms are scrutinized (§3).

1. VARIATION IN COPTIC CONJUNCTIVE MORPHOLOGY

The considerable degree of variety in the morphological formation of the Coptic conjunctive paradigm is far from new, and what I shall deal with in the following is very plain in some way, even though not entirely trivial I hope. In any case, I cannot offer much more than rough linguistic data, of a kind however that may please somebody as sensitive about language registers and diglossia in Egyptian, as this Festschrift's honorand!¹

I take my starting point at Coptic conjunctive paradigms as emerging from a description of Coptic literary dialects, with their appearance of a regular shift from morphological fullness to morphological reduction form North to South (Tab. 1). Bohairic, the northernmost dialect, displays the morphologically fullest conjunction base $NT(\varepsilon)$ -/ ε , a form that easily connects to the Demotic and Late Egyptian conjunctive forms mtw=y sdm, mtw=k sdm etc. Furthermore, no other literary dialect has the third person plural form still operating with the suffix pronoun =0Y, thus resisting its replacement by a form identical with the proclitic pronoun ce-, as is the standard in all other dialects. At the southern end, the Akhimic conjunctive morphology displays such a degree of reduction as to having fully converged (the only exceptions being pre-nominal τε- and 1st sg. τα-) with the morphology of the proclitic pronouns of the bipartite conjugation. The other dialects, Fayyumic, Middle Egyptian, Sahidic and Lycopolitan, keep half-way between the extreme dialectal varieties in terms of morphological reduction.

Especially P. Vernus, "Entre néo-égyptien et démotique: la langue utilisée dans la traduction du *Rituel de repousser l'Agressif* (Étude sur la diglossie 1)", *RdÉ* 41 (1991), p. 153-208 (for the conjunctive, cf. 177-182 with a description of eight different contexts of the conjunctive in the *Rituel de repousser l'Agressif*) and P. Vernus, "Langue littéraire et diglossie", in A. Loprieno (ed.), *Ancient Egyptian Literature. History and Forms* (*PdÄ* 10), 1996, p. 555-564.

² Although "N est parfois supprimé", as A. Mallon (*Grammaire Copte*, ⁴1956, p. 119) mentioned; cf. already L. Stern, *Koptische Grammatik*, 1880, p. 273, §441, and G. Steindorff, *Lehrbuch der koptischen Grammatik*, 1951, p. 171, who refers to W.E. Crum, Review of *Bibliothecae Apostolicae Vaticanae... Codices Coptici*, Tomus 1: Codices Coptici Vaticani, *JEA* 27 (1942), p. 180 & n. 6.

³ J. Černý & S.I. Groll, *A late Egyptian Grammar*, ³1984, p. 438-451; W. Spiegelberg, *Demotische Grammatik*, 1925, p. 69-74; J.H. Johnson, *The Demotic verbal system (SAOC* 38), 1976, p. 181-192; A. Shisha-Halevy, "Bohairic-Late Egyptian Diaglosses: a Contribution to the Typology of Egyptian", in D.W. Young (ed.), *Studies Presented to Hans Jakob Polotsky*, 1981, p. 424.

	Types	Demotic ancestors	Late Demotic P.Lond Leid.	B_5	F	М	S	L	A
1 sg.	NT(E)≠ N≠ Ø≠	mtw=y	mtw (glossed NTA) ⁴	NTA	NTA	NTA	NTA	NT.L T.L	Td
2 sg.m	NT(E)= N= Ø=	mtw=k	$mtw=k$ $n-iir=k^5$	NTEK	NK	NK	ЛГ	NF, NK	к
2 sg.f	NTE= N= Ø=	mtw=t	brillot 90 State Val	NTE	NTE	[NTE]	NTE	NTE TE	тє
3 sg.m	NTE# N# Ø#	mtw=f	mtw=f	РЭТИ	ри	ич	ич	ри	q
3 sg.f	NTE= N= Ø=	mtw=s	mtw=s	NTEC	NC	NC	NC	NC	С
l pl.	NTE= N= Ø=	mtw=n	mtw=n	NTEN	NTEN	ити	ити	ИТИ	TN
2 pl.	NTE= N= Ø=	mtw=tn	mtw=tn	NTETEN	NTETEN	итєт(є)и	нтети	NTETN TETN	TETN
3 pl.	NTE= N= Ø=	mtw=w	$mtw=w$ $n-st^6$	NTOY	NCE	NCE	NCE	NCE	ce, coy
prenom.	ПТ€- †€-	mtw-	mtw-	NTE-	OHC doc	NTE-	NTE-	NTE-	те-

Table 1. The Conjunctive paradigm: Etymology and shift trough (some) literary dialects

This very appearance, among some other phenomena, gave rise to A. Erman's idea of a lower speed of speech in Northern Coptic, since Bohairic did overall not "slide" so far on the "inclined plane of morphological reduction" as he put it, than Sahidic:

⁴ P.Lond.-Leid. xiv,5, cf. J.H. Johnson, The Demotic Verbal System, p. 181.

⁵ Instances of the morphologically younger type of conjunctive occasionally occuring in the late Demotic magical papyrus London-Leiden, our № type, are collected by J.H. Johnson (*The Demotic Verbal System*) and J.Fr. Quack (*Demotische Grammatik*. Testversion Sommersemester 2011), and here quoted from J.Fr. Quack: *n-i.ir=k* as a spelling of the 2nd person sg.m., e.g. *P.Lond.-Leid.* xx,26 and 27; xxi,35.

⁶ Spelling *n-st* for conjunctive 3rd person pl. (quoted from J.Fr. Quack, *Demotische Grammatik*); *P.Lond.-Leid.* ii.9; xviii.31 (?).

A. Erman, "Unterschiede zwischen den koptischen Dialekten bei der Wortverbindung", Sitzungsberichte der phil.-hist. Klasse der Königlich-Preußischen Akademie der Wissenschaften, 1915, p. 170. Cf. W.C. Till, Koptische Grammatik: saïdischer

"wir haben durchweg das gleiche Verhältnis zwischen beiden Dialekten, die vollere, selbständigere Form gehört regelmäßig dem Bohairischen, die kürzere, enger verbundene dem Sahidischen an; (...) Das Sahidische treibt die Verkürzung (...) bis zu Nq statt zu NTEQ. Das Resultat von dem allen lässt sich nur so formulieren (...): man hat im Bohairischen gemessener gesprochen als im Sahidischen, und so hat sich die Sprache dort etwas besser erhalten als hier. Das Bohairische hat zwar auch den Weg der Enttonung und Verkürzung betreten, aber es ist auf dieser schiefen Ebene noch nicht ganz so weit geglitten wie das Sahidische."

Caveats against this neat picture can however be found even within the sphere of literary Coptic. The late Coptic literary dialect H reasonably localized at Ashmunein displays a conjunctive paradigm equal to Akhmimic, in terms of "having slid on the inclined plane of morphological reduction". On the other hand, and more disturbing (since devaluating the possible explanation of diachronic distance taking the role of diatopic diversity), there is evidence of a very full-sounding conjunctive, preserving Tau and Ny, in Subakhmimic and Akhmimic. Even if numerically negligeable, such isolated instances are sufficient to prove that the unreduced conjunctive was not alien even to the southernmost Coptic dialects, and was used besides the mostly observed norm being the reduced forms.

Rather exceptional in literary Coptic, the same variation is amply evidenced in the corpus of Coptic documentary texts. Table 2, compiled

Dialekt, 1955, §321 and W.C. Till, "Anhang: Zum Konjugationspräfix τεκ- usw.", ZÄS 77 (1942), p. 111.

⁸ Cf. R. Kasser, "Dialect H (or Hermopolitan or Ashmuninic)", *The Coptic Encyclopaedia*, vol. 8, 1991, p. 79: τα-, κ-, τη-, β-, [c-], [тην-], τητην-, ςη-, prenominal τη-.

⁹ NTY- once in NHC I,3 (Gospel of Truth), pag. 34,14 (cf. also Tractatus Triparitus, NHC I,5, pag. 107,32); ΝΤΟΥ- in NHC I,3 (Gospel of Truth) according to an unpublished edition by Peter Nagel, p. 30,30-31: Instead of σΥΑΖΝΝ ΤΟΥΕΙΙΑΖΤΕ (to be analysed as a hapax spelling of the conjunction otherwise spelled σΥΑΖΑ, σΥΑΖΝ, plus causative infinitive), as editors from M. Malinine, H.Ch. Puech & G. Quispel (Evangelium verytatis: Codex Jung f.viii - xvi (p. 16-32) / f.xix - xxii (p. 37-43), 1956) onwards used to read, Nagel reasonably divided σΥΑΖΝ ΝΤΟΥΕΙΙΑΖΤΕ 'and they seized'.

NTQ- (once) in EpAp (ed. C. Schmidt, Gespräche Jesu mit seinen Jüngern nach der Auferstehung, 1919), pag. 2,14; NTOY- (bis) in the Berlin manuscript of IClem (ed. C. Schmidt, Der erste Clemensbrief in altkoptischer Übersetzung [TU 32], 1908), pag. 13,29 and 64,26. All of the three instances of NTO are that forms governed by OYN 6411 "it is possible". Since C. Schmidt (Der erste Clemensbrief) emended both instances of NTOY- in IClem, instead proposing the causative infinitive 4TOY- (as the Strasbourg ms. of IClem reads), they disappeared from later scholars' screens and are not mentioned e.g., in W.C. Till's Akhmimic Grammar of 1928 and P. Nagel's account of Akhmimic morphology in The Coptic Encyclopaedia, cf. however Fr. Rösch, Vorbemerkungen zu einer Grammatik der achmimischen Mundart, 1909, p. 159.

from the famous eighth chapter of P. Kahle's Bala'izah, 11 makes perfectly clear that unreduced forms, although in none of the literary dialects but Bohairic selected to be normative, were part of the parole throughout the Nile valley, which holds true of the 3rd person plural pronoun marked by or instead of ce. A further significant conclusion that can be drawn from the evidence of documentary Coptic is the amazingly high frequency and spread of forms with initial T-, like τεκεωτμ, τεγεωτμ, etc. This morphological pattern, although not privileged of being selected in any literary dialect as an accepted conjunctive form (except non-biblical — Nitrian and Kellian — Bohairic)¹², enjoyed the widest possible spread in non-literary usage actually. 13 The same observation can be, and has been made at literary texts from the late period of Coptic, 14 and these texts rather than documents, add an important aspect to our understanding of *conjunctivus multiformis*: ¹⁵

11 P.E. Kahle, Bala'izah. Coptic Texts from Deir el-Bala'izah in Upper Egypt, 1954,

p. 160-163, §138: "Unusual forms of the conjunctive".

P.E. Kahle, Bala'izah, p. 161, concluded accordingly "Non-literary texts ... have preserved important evidence that even in Upper Egypt the original forms with T and the alternative form of the third plural NTOY- were still known and used in the daily language

of the people."

15 I am very gratefull to E. Grossman who shared his analysis of conjunctive attesta-

tions in H. Junker's Koptische Poesie with me.

¹² For Nitrian Bohairic cf. A. Shisha-Halevy, "Bohairic", in The Coptic Encyclopaedia, vol. 8, 1991, p. 53-60; A. Shisha-Halevy, Topics in Coptic Syntax: Structural Studies in the Bohairic Dialect (OLA 160), 2007 and E. Grossman, "Worknotes on the syntax of Nitrian Bohairic: A hitherto unnoticed circumstantial conversion", in N. Bosson & A. Boud'hors (eds.), Actes du huitième congrès international d'études coptes, Paris, 28 juin - 3 juillet 2004 (OLA 163), 2007, vol. 2, p. 711-725. Eitan Grossman draws my attention to Kellian Bohairic.

¹⁴ G. Steindorff, Lehrbuch, p. 171, W.C. Till, ZÄS 77 (1942), p. 101-111 & W.C. Till, Koptische Grammatik, p. 162, P.E. Kahle, Bala'izah, p. 161: "These forms, with or without the N, are also sometimes found in literary manuscripts of a late period". References are usually made to W.C. Till's Koptische Heiligen- und Märtyrerlegenden, Nitrian Bohairic, and H. Junker's Koptische Poesie des 10. Jahrhunderts, 1908/11.

	Region A (from Cairo to Fayyûm)	Region B (Fayyûm Oasis)	Region C (from Oxyrhynchus to Bâwît)	Region D (from Assiout to Abydos)	Region E (from Coptos to Armant)
1 sg.	ical vanica	(no	'unusual forms' d	letected)	ib. od nav
2 sg.m	TK	TEK	$T(\varepsilon)\kappa$	$T(\varepsilon)\kappa$	NTEK TK
2 sg.f	OMPHD CALL	(no	'unusual forms' d	letected)	
3 sg.m	11 - EBRIDE	TEY	T(£)q	T(£)q	р(з)ти РТ
3 sg.f		(no	'unusual forms' d	letected)	
1 pl.		TEN	т(є)и	Т(ε)И	TN
2 pl.	Capiansko	r manu, su r of diach	TETN(E)	Τετν(ε)	NTETN TETN
3 pl.	I at and N	NT0Y T0Y	TOY, TEY NEOY COY	TOY NCOY COY	NTOY, NTEY NCOY C(OY)
pre- nominal	formet	Т€	тє	ΤE	d norm ben

Table 2. Distribution of 'Unusual forms of the conjunctive' in Documentary Coptic (according to P.E. Kahle, *Bala'izah*, p. 160-163)

Due to the fact that literary texts tend to be longer and accordingly richer of forms than single documentary items, it becomes more obvious by them that the co-occurrence of different conjunctive morphemes goes as far as to single texts, where Nq- may co-occur with TEQ- (less often with NTEQ-) in apparently free variation, even in the same line, as was pointed out occasionally. ¹⁶

While Nitrian Bohairic, late Sahidic poetry (or 'folk literature', as Erman put it)¹⁷ and other late Coptic literary texts have been mentioned recurrently, there is another late Coptic sort of text that, although providing a particularly large body of evidence, has not played a role in the notion of non-standard conjunctive morphology so far: 'scientific', or, more narrowly speaking, recipe-shaped texts. Collections of recipes form a small but significant Coptic sub-corpus, transmitting technical instructions to such different puposes as medicine, technology, alchemy,

¹⁶ W.C. Till, ZÄS 77 (1942), p. 110.

A. Erman, *Bruchstücke koptischer Volkslitteratur*, 1897, a term that obviously carries misleading implications from early modern vernacular literatures.

and magic.¹⁸ It goes without saying that Coptic recipes, typically structured by *sequential* strings of instructive, conditional and consecutive phrases, had a generic affinity to the use of conjunctives.

	Туре	BL Or.MS. 3669(1)	P.Berl. P 8316	Bodl. MS.Copt. (P) a.1	Bodl. MS. Copt. (P) a.3	P.Bodl.MS. Copt. (P) a.2	P.Cairo 42573	P.Ryl. Copt. 106	P.Méd. Copt. IFAO	Token
Total	4	3	3	3	3	2	2	3	3 (4?)	185
2 sg.m.	NT(E)= T(E)= N= 0=	NTК(1?) TК(5) NГ(4), NК(2)	Νκ(41) κ(2)	Nr(1)	τεκ(1) κ(1)		τεκ(4) nr(1)	τεκ(3) κ(2)	NTEK(1) TEK(5) NΓ(30) EK(1?)	2 18 79 6
2 sg.f.	ΝΤΕ- Τ(ε)- Ν-		NTE(4)							4
3 sg.m.	NT(E)= T(E)= N=	теq(1), тq(2)	NTEQ(1) NB(3)	тєч(4) мч(5)	тев(2), теq(3) Nq(1), Neq(1) q(1)	тев(1), теч(2) в(1)		теq(1) Nq(2)	теч(8) мч(7)	1 24 20 1
3 sg.f.	ΝΤ(ε)= Τ(ε)= Ν= Θ=	тс(1)	NC(1)	NC(3)	NC(2)	which h	l text	oims nom	NTEC(1) TEC(2)	1 3 6
3 pl.c.	NT(ε)= T(ε)= N=	noquictor	NT0Y(2)	TEY(3)	тоү(2)	nagu, sao s oo yilaada a-sa la es	salt seed some sta	төү(2)	TEY(1), TOY(1) NCE(4)	2 9 4
Prenominal	ЙТЄ- Т(є)-	RTE(1)	e wil siderjoj 1983	ΝΤε(1)	TE(1)	salas qui (so) collega ade discripenso	тє(1)		NTE(1)	3 2

Table 3. Conjunctive forms in late Coptic recipe texts

The eight texts presented in the following chapter provide a total of 185 conjunctive attestations, among them 2nd sg.m/f, 3rd sg.m/f, 3rd pl. and prenominal, however no 1st person and 2nd pl. instances. The four main

¹⁸ For this corpus cf. T.S. Richter, "What Kind of Alchemy is Attested by Tenth-Century Coptic Manuscripts?", Ambix. Journal of the Society for the History of Alchemy and Chemistry 56/1 (2009), p. 23-35; T.S. Richter, "The master spoke: 'Take one of the 'sun' and one unit of almulgam'. Hitherto Unnoticed Coptic Papyrological Evidence for Early Arabic Alchemy" in: A.T. Schubert & P. Sijpesteijn, Documents and the History of the Early Islamic World. 3^d Conference of the International Society for Arabic Papyrology, Alexandria, 23-26 March 2006 (Islamic History and Civilization. Studies and Texts 111), 2015, p. 194-233, and T.S. Richter, "Neue koptische medizinische Rezepte", ZÄS 141 (2014), 155-195.

patterns of conjunctive morphology, $NT(\varepsilon)$, $T(\varepsilon)$, N and M, and M are all attested in these texts, and none of them sticks with only one of those. Two texts, notably the ones providing the lowest total amount of conjunctive instances, make use of two morphological types, the other six texts use at least three of them (see Tab. 3 above).

2. CONJUNCTIVE MORPHOLOGY IN LATE COPTIC RECIPES

2.1. Alchemical Recipes from British Library Or. MS. 3669(1), 10th century

Types (tokens)	1 sg.	2 sg.m.	2 sg.f.	3 sg.m.	3 sg.f.	1 pl.	2 pl.	3 pl.	Prenom.
NTE≠ (2)		NTK (1?)							ЙТ€ (1)
$T(\varepsilon) = (9)$ $N = (6)$		тк (5) Nг (4), Nк (2)		теч (1), тч (2)	тс (1)				1)116

BL Or. MS. 3669(1), a 10th century parchment manuscript, 21 is the only Coptic alchemical text which has been published so far. 22 In terms of conjunctive morphology, three types are attested in it, NT(ε)=, 23 T(ε)=

There are other late Coptic collections of recipes that exhibit just one morphological type of conjunctive, such as the medical papyrus *Louvre AF 12530* (ed. T.S. Richter, "Neue koptische medizinische Rezepte") providing 36 instances of NΓ-, and *P.Berl. P 8116+8117 = BKU* I,26 (10th/11th century) using TE forms exclusively: TEK- (6), TER-/TEQ- (3/2), TEC-(2), TOY- (1).

L. Stern, "Fragment eines koptischen Tractates über Alchimie", ZÄS 23 (1885), p. 102-119.

While the paradigmatic status of prenominal ΝΤε- in a text exhibiting multiform conjunctives is etymologically unclear, it is here attributed to the ΝΤΕ- rather than the Ν- type because 1) there is a possible case of pre-pronominal ΝΤΕ- in the text, and 2) the prenominal form occurs in a function that another time in the manuscript triggers ΤΕ-, instead of an N- form. Still, this attribution is rather tentative and may be questioned.

There is no more than one unambigious instance for the morphological subtype NEK-, NEQ-, NEQ- which sporadically occurs in the late Sahidic poetry (H. Junker, *Koptische Poesie*), unless instances of NK- as opposed to NF- would be interpreted in terms of N(ε)K. This option can be ruled out at least for *P.Berlin P 8316* where the position of supralinear dots and strokes (\overline{N} K) speaks against $N(\varepsilon)$ K.

A single quire, technically a quinternion, written in a confident, perhaps professional sloping uncial very similar to *P.Berlin P 9287*, one of H. Junker's (*Koptische Poesie*) 10th-century late Coptic poetry manuscripts. For details about the manuscript cf. T.S. Richter, *Ambix. Journal* 56/1 (2009), p. 23-35; T.S. Richter, "Hitherto Unnoticed Coptic Papyrological Evidence", and the forthcoming reedition of the text by T.S. Richter, *Coptic Alchemical Texts*. Sources of Alchemy and Chemistry. Sir Robert Mond Studies in the History of Early Chemistry. Ambix Supplements. Leeds: Maney Publishing (forthcoming).

and N=, with a clear dominance of the $T(\varepsilon)$ = form. In terms of function, ²⁴ the conjunctive in its micro-coordinating capacity serves the expansion of imperative (exx. 1-6), aorist (exx. 121, 141) and terminative (ex. 152?), it is found as protasis (ex. 162) and apodosis (ex. 165) of a conditional construction, and in its sub-coordinating usage after verbs such as orwe (exx. 47-48), κw (ex. 49) and others (ex. 67).

2.2. Alchemical Recipes from P.Bodl.MS.Copt. (P) a.1 || P.Bodl.MS.Copt. (P) a.3, 10th century

Bodl.MS. Copt. (P) a.1	1 sg.	2 sg.m.	2 sg.f.	3 sg.m.	3 sg.f.	1 pl.	2 pl.	3 pl.	Prenom.
NTε= (1) T(ε)= (7)		the so		т€Ч (4)	1100			TEY (3)	NTE (1)
N= (9)		ΝΓ (1)	he seine	мч (5)	NC (3)			la de la constante de la const	(Dess

Bodl.MS. Copt. (P) a.3	1 sg.	2 sg.m.	2 sg.f.	3 sg.m.	3 sg.f.	1 pl.	2 pl.	3 pl.	Prenom.
T(ε)= (9)		τεκ (1)	11,36	тев (2), теч (3)	d)nsin	-		точ (2)	тє (1)
N(€)≠ (4)	10.00	qaedh		ич (1), иєч (1)	NC (2)			Margari	ide, bas
ø= (2)		κ(1)		q (1)				C B FILLS	THE LAND

The unedited²⁵ Bodlian MSS. Copt. (P) a.1 and 3 are dealt with together here since they are witnesses of the same alchemical treatise. They do not provide, however, precisely the same text in a stemmatic sense, but differ slightly at several textual levels, including orthography, grammar, and lexicon, and seem to represent two different recensions.

Both manuscripts are different also in terms of conjunctive morphology. *P.Bodl.MS.Copt.* (*P*) a.1 uses mainly forms of the $T(\varepsilon)$ and N types with a slight preference for the latter both in terms of tokens and the range of personal inflection, while the $NT(\varepsilon)$ type is limited to the

For a discussion of functional aspects, cf. below, §3.

The Bodleian MSS.Copt. (P) a. 1, 2, and 3 were transcribed by W.E. Crum who occasionally quotes them in his *Coptic Dictionary*, and were firstly brought to a wider audience's knowledge by L.S.B. McCoull, "Coptic alchemy and craft technology in early islamic Egypt: the papyrological evidence", in M.J.S. Chiat (ed.), *The medieval mediterranean. Cross-cultural contacts (Medieval studies at Minnesota* 3), 1988, p. 101-104. They were recently dealt with by T.S. Richter, *Ambix. Journal* 56/1 (2009), p. 23-35 and T.S. Richter, "Hitherto Unnoticed Coptic Papyrological Evidence" and will be edited by T.S. Richter, *Coptic Alchemical Texts*.

least noticeable, properly neutral case, the prenominal base.²⁶ The two main types $T(\varepsilon)$ and N co-occur in the 3rd sg.m., and there are examples actually showing both types expanding the same nexus.²⁷

Functionally, the conjunctive is used to expand third future (exx. 75-77), 28 aorist (exx. 122-132, 140), terminative (exx. 144-147, 149, 153-156), and the protasis of conditional constructions (exx. 157-159), and it sub-coordinates object clauses to the verb κw (exx. 50-53).

2.3. Alchemical Recipes from P.Bodl.MS.Copt. (P) a.2, 10th century

Type (tokens)	1 sg.	2 sg.m.	2 sg.f.	3 sg.m.	3 sg.f.	1 pl.	2 pl.	3 pl.	Prenom.
T(€) ≠ (3)				тев (1), теч (2)					
ø= (1)	-			в (1)					2

This likewise unedited²⁹ text does not yield a lot of instances. The manuscript has been written by the scribe³⁰ of *P.Bodl. MS.Copt. (P) a.*3 and shares the preference for the $\tau(\varepsilon)$ form and the sproadic use of the \emptyset form. As in *Bodl.MSS.Copt. (P) a.* 1 and 3, conjunctives are used to expand aorist (*ex.* 133) and terminative (*exx.* 148) in a microcoordinating way and the verb $\kappa \omega$ in a sub-coordinating way (*ex.* 54).

²⁶ That it is taken here an instance of the NTE rather than the N type is because the context where it occurs, the expansion of terminative, is typical for TE rather than N forms, although *P.Bodl.Copt.a.1* once uses an N form actually. The decision may thus rightly be questioned.

EXX. 155-156: Bodl.MS.Copt. (P) a.1, e 18-19: WANTER WE ERNAY EPOY EYW NEWLA NYBWA EBOA TEYPHOOY 'until you stop recognizing it as being a body and it dissolves and becomes liquid', for this variation cf. below, chapter 3.11. EXX. 76 & 77: Bodl.MS.Copt. (P) a.3, r° 72-73: EPENNOYTE TAL ENZHT NHICAZ YTALHON EPOC 'May God give it into the master's heart, that he may let us know it' as opposed to Bodl.MS.Copt. (P) a.3, r° 77-78: EPENNOYTE TALE[C] EHEYZHT TE<4>TALHOI ETHEXANH ENECODOC 'May God give it into his heart, and he may let me know the machine.'

This analysis seems preferable to a conditional construction with protatic εqcwτμ and the conjucuntive *in apodosi*.

²⁹ Cf. above, n. 25.

³⁰ Cf. T.S. Richter, "A scribe, his bag of tricks, what it was for and where he got it. Scribal registers, skills and techniques in the Bodl. MSS.Copt. (P) a. 2 & 3", in J. Cromwell & E. Grossman (eds.), Beyond Free Variation. Scribal Repertoires in Egypt from the Old Kingdom to the Early Islamic Period. University College, Oxford September 14th – 16th 2009, forthcoming.

2.4.	Purple	Recipes	from P	.Berl.	P 8316 =	BKU	I,21,	8 th /9 th	century
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Type (tokens)	1 sg.c.	2 sg.m.	2 sg.f.	3 sg.m.	3 sg.f.	1 pl.	2 pl.	3 pl.	Prenom.
NT€ < (7)	USH RY	Hidipit	NTE (4)	мтеч (1)	em e la	Hen	9.41	NT0Y (2)	hoogk
N= (45)	Lighod	ик (41)	t)alkarı	NB (3)	N c (1)	Aggga	9.65	anieda	diago
ø= (2)	13,4921	к (2)	ppeans	(91:89°E)	Re Ship	18638		BYU20	49930

P.Berl. P 8316 (= BKU I 21), ³¹ a recipe for purple substitutes, is peculiar in terms of conjunctive morphology, both for the sheer number of occurences and for the range of morphological variation therein. Unlike the other texts, the spectrum of types is 'uncontinuous' so to speak: While it has the NT(ε) form, it 'skips' the T(ε) type, but does have both the N= and Ø= forms. The NT(ε) form and the Ø= form have only a few although clear instances, while the N= form is overwhelmingly used. The most striking feature of the conjuncive morphology of P.Berl. P 8316 is the fact that the text provides forms of the 2nd sg.f., not because a femal is addressed in it, but because the gender contrast of the singular 2nd person seems to be neutralized (exx. 7-10). Functionally, conjunctives are chosen to expand the imperative in micro-coordinating (exx. 7-13) as well as sub-coordinating (exx. 68-71) way, aorist (exx. 80-120), terminative (exx. 142-143), and the protasis of a conditional (exx. 163).

2.5. Magical Recipes from P.Cairo 42573, 10th/11th century

Type (tokens)	1 sg.c.	2 sg.m.	2 sg.f.	3 sg.m.	3 sg.f.	1 pl.	2 pl.	3 pl.	Prenom.
$T(\varepsilon) = (5)$ $N = (1)$		тек (4) NГ (1)							т€ (1)

The magical recipes of P.Cairo 42573, a paper quire made of two *bifolia*, ³² contain only a handfull of conjunctive instances, among them however some rather interesting ones. Morphologically, the text clearly

³² Ed. Ém. Chassinat, Le manuscrit magique copte Nº 42573 du Musée Égyptien du

Caire (BEC 4), 1955.

³¹ This text was edited by A. Erman in *BKU* I, and has recently been dealt with by M. Stoyanova, "Written Sources on Coptic Dyeing Methods", *Journal of Coptic Studies* 10 (2008), p. 99-112. For its non-standard use of statives cf. A. Boud'hors & A. Shisha-Halevy, "Two Remarkable Features of Coptic Syntax: (I) The Circumstantial Stative (II) The Neutric Copular τε in Nominal Sentence Patterns", *ZÃS* 139 (2012), p. 105-112.

prefers the $T(\varepsilon)$ form although the N form is attested once. Functionally the conjunctive mostly serves the expansion of imperatives (exx. 14-16). In ex. 179 it expands the conditional conjunction εψωπε, thus forming a protasis. In ex. 182 the conjunctive $T \varepsilon \kappa \circ \gamma \omega \omega \omega$ 'you wish' expands the noun $\sigma \gamma \rho \omega \omega \omega \omega$ 'a man' in a quasi attributive way, its likely meaning being "A person for whom you wish (that everbody hates him)" A conjunctive as that form is chosen to encode the object clause of the verb $\sigma \gamma \omega \omega \omega \omega$ (ex. 177).

2.6. Medical recipes from P.Ryl.Copt. 106, 10th/11th century

Types (tokens)	1 sg.	2 sg.m.	2 sg.f.	3 sg.m.	3 sg.f.	1 pl.	2 pl.	3 pl.	Prenom.
$T(\varepsilon) = (6)$ $N = (2)$		TEK (3)		тєч (1) мч (2)		r Juditů) Instant	-67h	точ (2)	nfle'it.
θ= (2)		κ (2)		VATOR !				ri 180k	though

The paper manuscript³³ *P.Ryl.Copt.* 106 contains a number of (not fully comprehensible) magico-medical recipes, which in terms of conjunctive morphology take a similar approach as is seen in *P.Bodl.MS.Copt. a.3*. It includes the $T(\varepsilon) = N_0$, and 0 = 0 types, with a preference for the first one, and has T(0) instead of T(0) for 3rd pl. The conjunctive is used to expand imperative micro- (ex. 17, 39) and sub-coordinating (ex. 55-56), aorist (exx. 134-135) and causative imperative (ex. 171), it serves as protasis (ex. 164) and apodosis (ex. 166) of conditional constructions, and it occurs in an adnominal construction (ex. 183).

2.7. Medical Recipes from P.Méd.Copt.IFAO, 10th century

Types (tokens)	1 sg.c.	2 sg.m.	2 sg.f.	3 sg.m.	3 sg.f.	1 pl.c.	2 pl.c.	3 pl.c.	Pre- nom.
NT€ = (3)		NTEK (1)	ights :	SF ASA	NTEC (1)		rea (ii)	magicalt re	NTE (1)
T(€)≈ (17)		TEK (5)	Prison:	теч (8)	тес (2)		71110	TEY (1), TOY (1)	Ofid
N= (41)		иг (30)		Nq (7)	2.494			NCE (4)	Worl
ø= (1?)		єк. (1?)		me knos	Che ma				

³³ Ed. by Crum in P.Ryl.Copt.

P.Méd.Copt.IFAO, the 'Ebers papyrus' among the Coptic medical texts³⁴ in terms of lenghth and quality, is exceptional also in terms of conjunctive morphology and usage. It instanciates the fullest spectrum of morphological variety, including a few clear instances of the NTE type,³⁵ a good number of $T(\varepsilon)$ forms, a majority of N forms and one possible instance of \emptyset and it exhibits the widest range of functions, including micro- (exx. 18-38, 40-46) and sub-coordination (exx. 57-66) after imperative, expansion of future I and II (exx. 72-74) and perhaps of future III (exx. 78-79?), aorist (exx. 136-139), terminative (ex. 151), conditional protasis (exx. 160-161) and causative infinitive (exx. 172-176), as well as *that* forms governed by verbal (ex. 178) and nominal (exx. 180-181) nuclei and the 'injunctive', or apodotic use of conjunctive (exx. 167-169, 170?).

3. FUNCTIONAL DISTRIBUTION OF MORPHOLOGICAL TYPES

Seen from a functional perspective, ³⁷ conjunctives in late Coptic recipes occur in quite a range of distinct usages, all of them being in overall

³⁴ Ed. Ém. Chassinat, Un papyrus médical copte (MIFAO 32), 1921; cf. W.C. Till, Die Arzneikunde der Kopten, 1951.

35 As in *P.BL Or. 3669(1)*, prenominal NTε- is aloted here to the NTε- rather than the N= type because 1) there are undoubted NTε- forms in the text, and 2) the prenominal form occurs in a function (injunctive/apodotic), that another time triggers (at least) a Tε-, instead of a N= form. Again this is just a guess how the scribe would have felt this form.

P. Méd. CoptIFAO, line 384-385: πζας ... εκθνου καζως ... Ντεπ συκρμε νιορτ Ντκας εχνίμα νια ευτικάς ζνπρωμε υναζο ζνουσεπή 'The excrement, grind it carefully ... and soak a lump of wool and put it on every distressing place at the man, (then) it will stop immediately", Ém. Chassinat (Un papyrus médical copte, p. 305) translated "La fiente ... que tu tritures bien", thus analysing εκθνου as circumstantial present, which possibility is excluded by the Stern-Jernsted rule. In my view there are two options: conjunctive and third future, both of them with the same injunctive meaning. While third future is barely attested in the text, there are clear instances of 'absolute', apodotic use of conjuctive (NI-) as initial form, cf. exx. 167-169.

³⁷ For functional aspects of the Coptic conjunctive, see A. Shisha-Halevy, Coptic Grammatical Categories. Structural Studies in the Syntax of Shenoutean Coptic (AnOr 53), 1986, p. 185-214; A. Shisha-Halevy, "Some reflections on the Egyptian conjunctive", in C. Fluck et al. (eds.), Divitiae Aegyptii. Koptologische und verwandte Studien zu Ehren von Martin Krause, 1995, p. 300-314; and A. Shisha-Halevy, Topics in Coptic Syntax, p. 158-160 and passim; cf. also L. Stern, Koptische Grammatik, p. 273-283, §\$440-448, and B. Layton, Coptic Grammar with chrestomathy and glossary. Sahidic Dialect, ²2011, p. 276-283, §350-356; C.H. Reintges, "A Descriptive Analysis of the Coptic Conjunctive Conjugation", in S. Völlmin, A. Amha et al. (eds.), Converbs, Medial Verbs, Clause Chaining and Related Issues (Frankfurter Afrikanistische Blätter 19), 2007, p. 163-184; C.H. Reintges, "Coordination, Converbs and Clause Chaining in Coptic. Typology and structural analysis", in I. Bril (ed.), Clause Linking and Clause Hierarchy. Syntax and Pragmatics (Studies in Language Companion Series 121), 2010, p. 203-265. On the pre-Coptic Egyptian Conjunctive, see W. Barta, "Zu ungewöhnlichen

keeping with well-established language practice. This is not to say that all of them can easily been found in 'standard' literary Sahidic. However none of them is *not* paralleled either in earlier Sahidic, or in Bohairic, or even in earlier Egyptian, namely in Demotic texts (cf. below).

There is no such evidence in our corpus as indicated by W.C. Till when he summarized on the use of conjunctive in late Coptic texts of the kind called by him, 'Coptic minor literature' ('Koptische Kleinliteratur'): "Zusammenfassend kann man also sagen, daß das Tek-Präfix des Vulgärkoptischen meist als Konjunktiv empfunden und verwendet wird, gelegentlich aber Bedeutungen haben kann, die dem Konjunktiv sonst nicht zukommen". 39

Given the likewise considerable range of morphological and functional diversity as exhibited by conjunctives in late Coptic recipes, the issue arises if there are recurrent matches between certain morphological types of conjunctive, and certain types of usage: Is the distribution of different morphological types of conjunctive overall, or partially ruled by regular correspondences, or is it widely the result of free variation?

Such correspondences have indeed been proposed for the distribution of the two 3rd plural forms of the conjunctive in (biblical) Bohairic, the 'true' Bohairic form NTOY- and the 'sahidicizing' form NCE-. A. Shisha-

Verwendungsweisen des selbständigen Personalpronomens im Alt-, Mittel- und Neuägyptischen", GM 125 (1991), p. 7-14, J.F. Borghouts, "A New Approach to the Late Egyptian Conjunctive", ZÄS 106 (1979), p. 14-24, J. Černý, "On the Origin of the Late Egyptian Conjunctive", JEA 35 (1949), p. 25-30; L. Depuydt, Conjunction, Contiguity, Contingency: On Relationships Between Events in the Egyptian and Coptic Verbal System, 1993; A. Gardiner, "An Egyptian Split Infinitive and the Origin of the Coptic Conjunctive Tense", JEA 14 (1928), p. 86-96; B. Kroeber, Die Neuägyptizismen vor der Amarnazeit. Studien zur Entwicklung der ägyptischen Sprache vom Mittleren zum Neuen Reich, 1970; M. Lichtheim, "Notes on the Late Egyptian Conjunctive", in H.B. Rosén (Hrsg.), Studies in Egyptology and Linguistics in Honour of H.J. Polotsky, 1964, p. 1-8; S. Sauneron, "Quelques emplois particuliers du conjonctif", BIFAO 61 (1962), p. 59-67; J. Vergote, "Essai de comparaison entre les systèmes de conjugaison égyptiens et copte le conjonctif', in L'égyptologie en 1979: Axes prioritaires de recherches, Colloques internationaux du CNRS 595, 1982, p. 77-80; P. Vernus, RdE 41 (1991), p. 153-208; A. Volten, "The Late Egyptian Conjunctive", in H.B. Rosén (ed.), Studies in Egyptology and Linguistics in Honour of H.J. Polotsky, 1964, p. 54-80; E. Wente, "The Late Egyptian Conjunctive as Past Continuative", JNES 21 (1969), p. 304-311; J. Winand, "A la croisée du temps, de l'aspect et du mode : le conjonctif en néo-égyptien, in O. Goldwasser & D. Sweeney (eds.), Structuring Egyptian Syntax: A tribute to Sarah Israelit-Groll (LingAeg 9), 2001, p. 293-329.

³⁸ W.C. Till, ZÄS 77 (1942), p. 111.

³⁹ What W.C. Till puts as 'meanings' occasionally taken by conjunctives are such striking syntactic features as instances of conjunctives with statives as predicate. Caveats against the impetus to emend such occurrences: A. Boud'hors & A. Shisha-Halevy, *ZÄS* 139 (2012), p. 105-112.

Halevy observed at least a tendency towards their functional distribution according to different syntactic contexts: 40 "The general impression (which is, however, far from conclusive) is that NCE- is used in the continuative (subcategorizing) function ... while NTOY- occurs most frequently in the 'subjunctive,' 'that'-function, as governed by verbs (including 'impersonalia') and conjunctions."

To get a representative picture of the morphosyntactic behaviour of *coniunctivus multiformis*, it might be important to rule out impressionist conclusions by basing the argument on numerical evidence. This evidence, limited enough, is for the entire corpus like this:

Morphological types	NT(€)≠	T(€)≠	N=	0=	Total
Tokens	13	56	109	7	185
Proportion	7,0%	30,3%	58,9%	3,8%	100%

Table 4. Token frequency, corpus ratio (exx. 1-185)

Seen from a statistical point of view, it seems unavoidable to leave the two 'extreme' morphological types NTE and Ø more or less unregarded, as they provide no sufficient evidence to draw reliable conclusions (unless their few instances would all coincide in one functional type, which is not the case). In practical terms, the raised issue narrows down to the question if there is any significant distribution of the types TE and No: Are there contexts for which our figures indicate a clear over- or under-representation of one of them, or is there an overall equal distribution regardless of different contexts and functional types? The answer to this question, to give it in advance, is: yes, and yes. There is a

were.

⁴⁰ A. Shisha-Halevy, "Bohairic-Late Egyptian Diaglosses", p. 324. L. Stern (Koptische Grammatik) had argued for a subtle semantic distinction of the two even though occurring in the same syntactic environs, cf. L. Stern apud A. Shisha-Halevy, Topics in Coptic Syntax, p. 292, obs. 7: "The familiar morphological puzzle of the two 3rd-plural forms of the Conjunctive, viz. NTOY- ('regular' in its paradigm) and NCE- (deviant, Sahidic-like yet equally Bohairic in distribution) was to my knowledge tackled only by L. Stern (Koptische Grammatik, p. 274 & 282), who was confident he could correlate the forms with respective different meanings: "NTOY- «wirkliche folge» ... «die form des objektiven modus der vorstellung», NCE- «beabsichtigte folge» – «die form des subjektiven modus der folge»."

This is the reason why I also hesitate to rely too much on the observation that the occurrence of the NTE type is usually dependent on the co-occurrence of the TE type (exceptional in this regard: *P.Berl. P 8316*, cf. above, 2.4), while the Ø type seems to be exclusively attested in those cases where the N type is prevalent, so that the morphological quartet seems to divide into a 'left wing' and a 'right wing' coalision, as it

wide range of free variation, of syntactic environs apparently allowing any morphological type, and there are some more restricted environments, obviously encouraging the choice of a particular morphological type.

3.1 Imperative expanded by conjunctive

a) Micro-coordinating expansion of imperative, including instances without (exx. 1-38) and with (exx. 39-44) additional conjunctions, is one of three contexts (the other ones being the expansion of aorist and of conditional protasis) in which the complete set of morphological types is attested. In terms of token frequency however, the N= type turns out to be the preferred type. Compared to the corpus ratio, it is clearly overrepresented at the other three types' expense. The latters occur as free variations, as in exx. 1, 4, 5 and 6 (TK-) from BL Or. MS. 3669(1) besides exx. 2-3 (NT-) from the same manuscript, exx. 14-15 (TEK-) from P.Cairo 42573 besides ex. 16 (NT-) from the same manuscript, or exx. 18-29 (NT-) from P.Méd.Copt.IFAO besides ex. 30 (NTEK-) and ex. 31 (TEK-) from the same manuscript.

Morphological types	ЙТ(ε)≠	T(E)=	N=	6=	Total
Tokens	1	11	32	2	46
Percentage	2,1 %	24 %	69,5 %	4,3 %	100%

Table 5. Expansion of imperative, micro-coordination without and with inserted conjunctions (exx. 1-46)

b) Sub-ordinating expansion of imperative, a frequently instanciated context too (although not as numerous as micro-coordination), gives a strikingly changed picture. It is one of the contexts where the $\tau\epsilon$ type is significantly over-represented. Given that the NTE type, with two of twenty five instances slightly over-represented, has a close relation to the $\tau\epsilon$ type, while the \varnothing type which is not attested at all relates to the NS type, 'left wing' forms represent almost three quarters of all attestations.

Certainly it must not be overlooked that this context includes a good deal of phraseologically shaped language, such as καλη τεηψουγε/τεηκβυ "let it dry/cool down", 42 and † Νλη τεηυγωμ "give him to eat",

⁴² Further examples from 'uni-conjunctive' texts: *P.Ryl.Copt.* 110 ογαζ(ε) εδος ΤΕΚΚΒΟ 'set it aside to cool', *P.Berlin P 8116a*, 12 ΤΕΚΟΥΛΖΎ ΤΕΒΨΑΎΕΙ 'and let it dry', *P.Berlin P 8116a*, 28, ΤΕΚΠΑΡΨΎ ΕΒΑΣ ΤΕΒΨΑΎΕΙ 'and spread it that it dries', *P.Berlin*

a fact that may disturb the figures. However as can be shown, these phrases were not as ossified as not to allow variation: Besides † να τεφούωμ (exx. 59, 62) there is † να η νηούωμ (exx. 60, 61) in the same manuscript, and in the καλη τερμούνε / τερκού formula, conjunctive is often replaced by wantes: Thus the form following the imperative was not simply triggered by phraseological automatism, but was the result of a real choice.

Morphological types	NT(€)≠	Τ(ε)=	N=	0-	Total
Tokens	2	16	7		25
Percentage	8 %	64 %	28 %		100%

Table 6. Expansion of imperative, sub-coordination (exx. 47-71)

3.2. Future I, II and III expanded by conjunctive

Future I expansion by conjunctive is instanciated no more than twice (ex. 72-73) and therefore irrelevant for further conclusions. It should however be mentioned that the two instances represent two different morphological types, although following each other in one sequence:

(ex. 74) בששתב בכשבת כמבף אף א מדבב הם בששתב מחבבים הובנשבת כמבף אף ו בוב תבבסמס במבו דבכבו בבףבו (50)

'if it has delayed, it will last 60 d(ay)s and will stop, if it has not delayed, it will last 10 d(ay)s or more than these, and it will come up (finally).

'43

There is only one instance of (injunctive) *Future II* expanded by conjunctive (*ex.* 74: N= type), and a triplet of clear instances of *Future III* expanded by conjunctive (*exx.* 75-77). Interestingly enough, this triplet again includes three different morphological types of conjunctive even though occurring in the very same phrase:

- (ex. 75) ερεπνούτε ταις επζητ κπίας νηταμοι ετμέχανη 'May God give it into the master's heart, that he (the teacher) may explain me the machine'
- (ex. 76) ερεπνούτε τας επζητ νπόας γταμών ερώς 'May God give it into the master's heart, that he (the teacher) may explain it to us'

8116b, 17: παρως εβάλ ... τουωαγ[ει] 'Spread them that they dry', P.Berlin P 8116b, 26 παρωςς εβάλ τεςωαγει 'Spread it that it dries'.

⁴³ The same sequence: ΝΤΕ= ... ΤΕ= occurs in exx. 30-31 (Imperative expanded): XI ΝΑΚ ΝΓ ΝCIB ΣΝΟΥ*ΕΣΕ ΝΚΑΙΙΕ* ΝΤΕΚΤΕΚ ΝΒωΖΕ ΤΕΚΠΙΡΙΧΕ 100Υ ΣΝΠΕΥΚΝΟΨ 'take 3 ticks from a black cow and pull the lashes out and spread their blood on them'.

(ex. 77) ερεπνοντε ταα[c] επείζητ τε<η>ταποι ετμέχανη

'May God give it into his heart, that he (the teacher) may explain
me the machine.'

Thus the expansion of future seems to be a domain principally open to free variation.

3.3. Aorist expanded by conjunctive

The expansion of *aorist*, a well-established role of the conjunctive not only in Coptic, ⁴⁴ is one of three contexts (the other ones being microcoordinating expansion of imperative, cf. above, and expansion of conditional protasis, cf. below) in which the complete set of morphological types is attested. ⁴⁵ Although the aorist in recipes is used in two different functions — exhortative mode in instructive parts, usually to be translated "you shall …", and apodotic conclusion in descriptions of the outcome, usually to be translated "it will …", ⁴⁶ this semantic distinctions seems not to affect the morphological choice, at least as far as one can tell from a handful of instances. As in the case of imperative, also the aorist is a clear domain of the N= type which takes up almost 90% of all instances, ⁴⁷ thus leaving only a small floor to the principally possible range of variation.

Morphological types	NT(€)≠	T(E)=	N=	0-	Total
Tokens	thrw.bma by	5	54	2	62
Percentage	1,6 %	8,1 %	87,1 %	3,2 %	100%

Table 7. Aorist expanded by conjunctive (exx. 80-141)

⁴⁴ J.Fr. Quack (*Demotische Grammatik*) and J.H. Johnson (*The Demotic Verbal System*, p. 182) quote examples such as *P.Lond.-Leid*. iii,32: *lpr plpr=f n t3 wnw.t n rn=s mtw-p3 wyn lppr* "it conjures immediately and the light comes into being".

⁴⁵ Even though the NTE paradigm is represented only in its less significant members, 2nd person sg.f. and prenominal NTE-, and the occurrence of the TE type is affected by three (out of altogether five) attestations with the predicate ρμοογ 'become liquid', a lexical choice which seems to have a particular affinity to the TE type, cf. below, 3.11.

⁴⁶ Both of these usages are already attested in Demotic recipes, cf. J.Fr. Quack, *Demotische Grammatik*, §12.6: "Der Aorist wird in Rezepten und verwandten Texten auch als Tempus für Anweisungen gebraucht und konkurriert in diesem Bereich mit dem Futur III. ... Ferner kann der Aorist das Resulat der vorangehenden Handlungenn anzeigen."

⁴⁷ The obsession of *P.Berlin P.8316* with conjunctive strings governed by aorist, rather than imperative, additionally forcing up the figures which however might still be reliable in showing an overall tendency.

3.4. Terminative expanded by conjunctive

The expansion of *terminative* by conjunctive, again a well-settled usage, ⁴⁸ seems to be a context evoking the TE type rather than other morphological choices, in this regard similar to the subordinate use of conjunctive following imperative (cf. above, 3.1) and the conjunctive used in the functional domain of *that* forms (cf. below).

Morphological types	NT(€)≠	T(E)=	N=	θ=	Total
Tokens	Sau ₁	10	4	ez syrron	15
Percentage	6,6 %	66,6 %	26,6%	ted arefers	100%

Table 8. Terminative expanded by conjunctive (exx. 142-156)

3.5. Protasis of conditional constructions expanded by conjunctive

The protasis of conditional constructions⁴⁹ (mostly the conditional conjugation, a couple of times the circumstantial aorist) is one of three contexts — the other ones being the micro-coordinating expansion of imperative and aorist (cf. above) — allowing the whole range of morphological variety. Given that the total amount is no more than eight attestations, nothing definitive about token frequency and patterns of distribution can be said beyond this general observation.

Morphological types	NT(€)≠	T(€)≠	N=	0=	Total
Tokens	I Stee	3	3	1	8
Percentage	12,5 %	37,5 %	37,5 %	12,5 %	100%

Table 9. Protasis of conditional constructions expanded by conjunctive (exx. 157-164)

⁴⁹ Demotic examples quotes by J.Fr. Quack (*Demotische Grammatik*) from Ankhsheshonqy xv,21: iw=w hb=k m-s3 s^c mtw=k gm sw m-ir in "If you are sent for chaff and you find wheat, don't buy!" and P.Lond.-Leid. ii,1: iw=f wn ir.t=f mtw=f nw r p3 wyn "If

he opens his eye and looks at the light".

⁴⁸ J.Fr. Quack (*Demotische Grammatik*) quotes from P.Loeb 13, x+16-18: §^c-tw=y iy n-im mtw=y gm p³ nti hpr (r)-db³.t=w "until I'll come there and find out what happens concerning them"; J.H. Johnson (*The Demotic Verbal System*, p. 185) quotes from P.Lond.-Leid. xxix,7-8: i.ir=k dd.t=f n sp 9 §^c-mtw p³ wyn ^c³w mtw Inpw iy r-hn "You should say it 9 times until the light is great and Anubis comes in".

3.6. Conjunctive as apodosis in conditional construction approach the second se

This function is attested in Coptic as well as in earlier (Demotic) Egyptian. In our corpus it occurs only twice, both times with a morphological 'right-wing' type (ex. 165: Nø, ex. 166: Nø) of conjunctive. Given the negligeable amount of instances, this must not mean anything. Taking the evidence of the next kind of context into account, there could however be made an argument for apodotic use of conjunctive encouraging 'right-wing' forms.

3.7. Conjunctive as "injunctive apodosis"

The "independent", "injunctive" function, although instances from Middle Egyptian⁵¹ onwards are not that numerous, have always been striking grammarians for its apparent deviation from a basic trait of Egyptian conjunctive, its being "non-initial by nature".⁵² Shisha-Halevy, in order to avoid allusions to "main clause modality", suggested to deal with such instances in terms of "injunctive apodosis", or "jussive sequelling".⁵³ Conjunctives as "injunctive apodosis" occur a couple of times in our corpus and, as the former context, are morphologically restricted to 'rightwing' types of conjunctive (*exx.* 167-169: Nø, *ex.* 170, if valid: Øø).

⁵⁰ Such as the example quoted by J.Fr. Quack (*Demotische Grammatik*) from *P.Heidelberg* 723, line 11: *in-n3.w šm lipr mtw=k mli* "When the harvest happens, you shall fully repay".

⁵¹ A. Shisha-Halevy, "Some reflections on the Egyptian conjunctive", p. 311, n. 52 quotes hn° nth hr dit "you shall give" from P. Med. Berlin 11,9 and compares "Coptic NIT+ concluding medical recipes (Chassinat, Pap. Médical)". Late Egyptian Instances of "independent conjunctive" are quoted by P. Vernus, RdÉ 41 (1991), p. 181; J.Fr. Quack (Demotische Grammatik) quotes Demotic examples from P. Louvre E 3229 r° vi,13: w° hbs n m3y iw p3y=f5°l n hbs n \$s-nsw iw=f w°b sp 2 mtw=k mh=f"A new lamp the wick of which is of byssos, which is perfectly clean, and you fill it with true oil" and from O. Tempeleide 107,9f.: p3 hw 'hw.t nti iw=fr-wnh[=f] mtw=f di.t s "the rent which he will reveal, he shall pay it"; J.H. Johnson (The Demotic Verbal System, p. 188) quotes examples from P. Lond. Leid., such as v,3: w° ph-ntr iw=f dnt mtw=k \$m r w°.t ry.t n kke ... mtw=k dit-w°b=s n mw "A tested divination: You shall got to a dark room ... and clean it with water".

A. Shisha-Halevy, *Coptic Grammatical Categories*, p. 187 and p. 206 + n. 64.

³³ A. Shisha-Halevy, "Some reflections on the Egyptian conjunctive", p. 311: "seemingly «independent» allocutive ... instructions expressed by the conjunctive are still sequeling textual rhemes."

3.8. Causative imperative expanded by conjunctive

A further construction within the range of injunctive language is the causative imperative expanded by conjunctive, although the least prominent in our Corpus (ex. 171: TE=).54

3.9. Causative infinitive expanded by conjunctive

Causative infinitive, a competitor of conjunctive for that form slots, can be expanded by conjunctive⁵⁵ and occurs four times in our corpus this way (exx. 172-175: N=, ex. 176: TE=). The different functions of the causative infinitive, verbal predicate versus that form, have no provable impact on the conjunctive morphology, although the only instance of $T(\varepsilon)$ is attested in the latter case.

3.10. Conjunctive as 'that'-form and in adnominal use

a) That-form governed by a verb of incomplete predication: This case, already known from Demotic, 56 is fairly well attested in Bohairic, 57 in Sahidic however it seems to occur only sporadically. 58 Both of the two instances in our corpus (exx. 177 and 178) have the verb orww followed by a conjunctive taking the TE form. The phrase which is completed by

Sahidic examples cf. G. Steindorff, Lehrbuch, p. 173 (§369); from Shenoute cf. A. Shisha-Halevy, Coptic Grammatical Categories, p. 193; a Bohairic example quoted by A. Mallon, Grammaire Copte, p. 123.

J.Fr. Quack (Demotische Grammatik) quotes a Demotic example from P.Lond.-Leid. iii.31: i.ir=k wh3 r di.t ir n3 ntr.w iy n=k mtw p3 hn phr n tkr "If you want to let the gods come to you, and that the vessel conjures up swiftly"; Sahidic instances e.g. G. Steindorff, Lehrbuch, p. 185 (§386); examples from Shenoute, cf. A. Shisha-Halevy, Coptic Grammatical Categories, p. 204-205; Bohairic examples quoted by

A. Mallon, Grammaire Copte, p. 123.

57 Cf. W.E. Crum, CD 500b; A. Mallon, Grammaire Copte, p. 120: x0YWW NTATACOO LITEKUHPI ETIKAZI ETAKI EBOA NAHTY "Tu veux que je ramène ton fils au pays d'où tu es venu ?", and A. Shisha-Halevy, Topics in Coptic Syntax, p. 460.

58 Cf. e.g. P.KRU 92,43: петоующе цен чпарава циоч "whoever wants to violate it".

The Demotic example P.Lond.-Leid. iii,31 quoted above (n. 55) displays the sequence wh3-causitive infinitive-conjunctive. For a similar use of conjunctive in Demotic cf. J.Fr. Quack (Demotische Grammatik): "Besonders häufig ist dieser Gebrauch nach dem Verb dbh "erbitten", das mit Konjunktiv (als Ersatz eines Umstandssatzes des Futur III) konstruiert wird, z.B. tw=y dbh n.im=s mtw=tn di.t ini=w p3 rmt n-rn=f "Ich bitte darum, daß ihr den besagten Mann bringen laßt" pBM 10591 2,8f.", further examples from the same papyrus (ed. H. Thompson, A family archive from Siût, Oxford, 1924) are quoted by J.H. Johnson, The Demotic Verbal System, p. 189, E 535b-c and E 536.

conjunctive in ex. 178, is followed twice by causative infinitive in the same manuscript (*P.Méd.Copt.IFAO*).⁵⁹

- b) That-form governed by $\epsilon m \omega \pi \epsilon$: While this construction seems to be rather untypical for Sahidic, ⁶⁰ it is already attested in Demotic (where its nature as a *that* form is even more obvious) ⁶¹ and well-established in Bohairic, both Biblical and Nitrian. ⁶² Our corpus provides just one instance (ex. 179), a $\tau \epsilon$ form.
- c) that-form governed by a noun: The adnominal use of conjunctive, already mentioned above, was thoroughly discussed by Shisha-Halevy 1986. Our corpus exhibits two different kinds of adnominal conjunctive: One of them may be subsumed under that-forms. It is governed by a nominal nucleus that relates as a means or method for attaining the aim being denoted by the expanding conjunctive predication. This usage is already attested in Demotic magical instruction, as in an example quoted by J.H. Johnson (The Demotic Verbal System, p. 189) from P.Lond.Leid. iii,20-21: phr.t n phr p^c hn n-gtg mtw=w dd n=k w3h n md.t m3^c.t "A recipe for enchanting the vessel swiftly, that you are given answer truthfully". In our corpus two instances are attested, both of them 'left wing' forms (exx. 180: NTE=, ex. 181: TE=).
- d) Adnominal conjunctive attributive to a noun: The other type of adnominal conjunctive relates to a nominal nucleus in a properly attributive way. It is interesting to note that this type too has its roots as deep as in Demotic. 63 The two instances from our corpus (exx. 182 and 183) are both $\tau \varepsilon =$ forms. 64

⁵⁹ P.Méd.Copt.IFAO, line 48 (= ex. 178) εκούω τεέρωτ 'if wou want it to grow'; ibid., lines 197 and 220: εκούωω (ε) τρεύρωτ καλως 'if you want them to grow well'.

⁶⁶ B. Layton (*Coptic Grammar*, §352) quotes an apparently rare example from biblical Sahidic (Mt 21,21): εψωπε συντητην πίστις μμων ανώ ντετητάρξητ ενών "If you have faith and do not doubt" with the conjuctive not immediately following the conjunction.

⁶¹ Demotic instances of *iw=f hpr* > εωωπε + conjunctive are quoted by J.Fr. Quack from *P.Lond.-Leid.* iii,19: *iw=f hpr mtw-p3y=f msdr 2 md n3-nfr=f m-ss sp 2* "If his two ears speak, then it is very, very good", and by J.H. Johnson (*The Demotic Verbal System*, p. 186) from *P.Lond.Leid.* ii,3: *iw=f hpr mtw=f wn ir.t=f mtw=f tm nw p3 wyn i.ir=k di.t ir=f htm ir.t=f* "If he opens his eyes and does not see the light, you should make him close his eyes".

⁶² Already W.E. Crum quoted a Bohairic example from H. Hyvernat's edition of *Actes des Martyrs* (1886, p. 28, line 12): εϣωπ ΝΤΟΥΝΑΥ ΧΕ "If you see that"; for further examples and discussion see A. Shisha-Halevy, *Topics in Coptic Syntax*, p. 96-97, 291 and 460.

⁶³ J.Fr. Quack (*Demotische Grammatik*) gives examples such as *Amasis und der Schiffer*, l. 11: *in wn rmt n-im=tn mtw=f rh ir w^c sdy* "Gibt es jemanden unter euch, der

It may finally be stated that the partially overlapping functional domains of *that* forms and of adnominal use provide no other morphological types of conjunctive than 'left wing' forms:

Morphological types	NT(€)≠	T(€)≠	N=	6=	Total
Tokens	1	6			7
Percentage	14,3 %	85,7 %	ADMINISTRA SER	anto higher	100%

Table 10. Conjunctive as 'that' form and in adnominal use (exx. 177-183)

3.11. Conclusion

An analysis of the distribution of morphologically different instances of conjunctive according to functional varieties in late Coptic recipes suggests that their occurrence was not completely due to free variation, but may have partly been dependent on contextual criteria which affected the choice of a morphological type at a given place. Potential criteria, none of them of exclusive efficacy (so that their assumed force may occasionally interfere, and thereby reinforce or mitigate the preference for a certain morphological choice), include:

Syntactic/semantic roles of conjunctive, namely the coordinating role, supporting the N= type (as in the case of micro-coordinating expansion of imperative, 3.1.a, expansion of aorist, 3.3, and the apodotic use of conjunctive, 3.6 and 3.7), as opposed to the subjunctive role encouraging the TE= type (as in the cases of sub-coordinating expansion of imperative, 3.1.b, that-forms and adnominal conjunctives, 3.10). This criterion goes well along the line drawn by Shisha-Halevy when he described the distribution of NTOY- and NEE-in Bohairic. The same criterion may also apply to the expansion of terminative, 3.4, where the whole construction belongs to the realm of subordination, although the conjunctive relates in a coordinating

eine Geschichte wird vortragen können" and observes that this construction serves as an allosyntagm of (affirmative) circumstantial future that "im Demotischen ungern gebildet wird"; cf. W. Spiegelberg, *Demotische Grammatik*, §151, p. 72-73.

Further evidence outside our corpus: *P.Ryl.Copt.* 104, section 4: οΥΨΆΝΑ ΤΕΚΤΑΥΌΙ ΝΕΛΑΙΑΥ ΕΧΧΑΤΒΕ ΕΨΆΟΚΕ 'A prayer which when thou speakest, there shall be no insect able to bite (thee)'; *P.Ryl.Copt.* 104, section 6: οΥΨΆΝΑ ΤΕΚΤΑΥΌΙ ΤΕΙΝΟΎΖΗ ΝΆΑΥ ΝΙΗ 'A prayer which when thou speakest, will protect from everything'

⁶⁵ A. Shisha-Halevy, "Bohairic-Late Egyptian Diaglosses", p. 324: "The general impression (which is, however, far from conclusive) is that Ντε- is used in the continuative (subcategorizing) function ... while ΝΤΟΥ- occurs most frequently in the 'subjunctive,' 'that'-function, as governed by verbs (including 'impersonalia') and conjunctions."

further explain the over-representation of N = forms in the 2nd person (sg. m.), as opposed to the over-representation of $T \in forms$ of the 3rd person (both sg. m. and pl.).

Frequency, namely frequent patterns (such as #imperative + conjunctive# and #aorist + conjunctive#) supporting N= forms, as opposed to rare patterns (such as #that-form + conjunctive#, #nominal nucleus + conjunctive#) encouraging TE= forms.

A morphological rationale: If not for syntactic/semantic reasons alone, the *terminative* may work as a generator of 'left wing' forms also due to its own morphology: Does it seem likely that the alliteration of $\mathfrak{GL}(N)$ TE and (N)TE would have affected the morphological choice?

A phonotactic rationale: There is a single verbal expression, proof 'become liquid', that whenever it occurs as predicate of a conjunctive in our corpus (exx. 123-124, 132, 144-148, 156), it takes a 'left wing' form, usually TE. It is striking to find this behavior evidenced in a context generally favouring the N= type, such as aorist (exx. 123-124, 132), and by a manuscript preferring TE= forms such as P.Bodl.MS.Copt. a.1 (exx. 124, 132):

- (ex. 123) Bodl.MS.Copt. (P) a.1, b 2-3 **33. 34. 46. 35. 35. 46. 37. 36. 37.**
- (ex. 124) Bodl.MS.Copt. (P) a.3, r^o 25-26 **φ4q8 φ4q8 φ25 γ25-26 γ36 γ37 γ37**
- (ex. 132) Bodl.MS.Copt. (P) a.3, r⁰ 50 **ψΔρε** ZΕΡΙΙΕ΄ Βωζ ΕΒΟζ ΤΕΥΕΡΙΙΟΟΥ

 'the quicksilver will dissolve and (finally) become liquid'

While the occurrence of TE is less conspicuous in expansion of terminative (exx. 144-148):

- (ex. 144) Bodl.MS.Copt. (P) a.1, a 17

 καιν ψιντέγεως εδος τεγρμοος

 'Leave them until they dissolve and (finally) become liquid'
- (ex. 145) Bodl.MS.Copt. (P) a.3, r^o 12
 καιν ψιντογεως εβος τογερμους
 'Leave them until they dissolve and (finally) become liquid'
- (ex. 146) Bodl.MS.Copt. (P) a.1, b 5

 ΨΑΝΤΕΎΒΗΣ ΕΒΟΣ ΤΕΎΡΙΙΟΟΥ

 'until they dissolve and (finally) become liquid'

- (ex. 147) Bodl.MS.Copt. (P) a.3, r° 27

 wantoγew εδολ τογερμοογ

 'until they dissolve and (finally) become liquid'
- (ex. 148) Bodl.MS.Copt. (P) a.2, line 61-62
 καθ ψατεθεώς εδος τεδεςρ>μοογ
 'Leave it, until it dissolves and becomes liquid.'

it is striking to find variation between TE= and N= in the same context, according to different predicates (exx. 155-156):

(ex. 155-156) Bodl.MS.Copt. (P) a.1, e 18-19 **ΨΑΝΤΕΚ** Δω ΕΚΝΑΥ ΕΡΟΥ ΕΥΨ ΝΟΜΙΑ ΝΥΒωλ ΕΒΟΛ ΤΕΥΡΙΠΟΟΥ

'until you stop to recognize it being a body, and it dissolves and (finally) becomes liquid.'

It is further striking to observe that no such variation happens in otherwise quite similar phrases, when the univerbalized predicate pmoon ('to become liquid') is replaced by a distransitive construction consisting of the verb eipe in pronominal state, and the noun moon as its second object ('to make it a liquid'): In this case, both a manuscript preferring N= forms (P.Bodl.MS.Copt. a.1) as well as a manuscript preferring Te= forms (P.Bodl.MS.Copt. a.3) have the N= type of conjunctive to expand agrist:

(ex. 129-130) Bodl.MS.Copt. (P) a.1, d 2-3

очиеханн ... ещасночт пешца тироч псводоч евод псадч

ишооч

'a machine ... that grinds every metall and dissolves them and liquifies them.'

(ex. 131) Bodl.MS.Copt. (P) a.3, r^o 66

wacnowt child nie nebolov ebol nelly nebol
'it grinds every metall and dissolves them and liquifies them.'

It seems that *νιμμιουΥ was not an accepted form, while τειμμιουΥ, as well as νιτιμΥ νιμουΥ were accepted. It seems to me that in this case phonotactic reasons were at work.

- 4. INSTANCES
- 4.1. Imperative expanded by conjunctive
- 4.1.1. Micro-coordinating expansion
- a) Without conjunction
- (ex. 1) BL Or.MS. 3669(1), fol. VII^r, (8)-10 אברסץ בועססץ: אף אסץאסץ ... אר סץשו אאסץ פּגַסק 'cook them in water 3 nights ... and add one unit of gold to it'

- (ex. 2-3) BL Or.MS. 3669(1), fol. VII^v, 3-6 **ΨΟΥΚΕΡ** ΜΠΕΝΙΠΕ ... ΝΓΠΑCΤΟΥ ΖΙΟΥΑΛΚΑΡΟΟΡΕ ΝΟΜΕ: ΝΓΛΙ

 μποου εβολ

 'bleach(?) the iron ... and boil them in a flask of clay, and bend(?)

 them'
- (ex. 4) BL Or.MS. 3669(1), fol. VII^v, 12-13
 [....0]ΥΨΙ ΤΕΡ ΝΖΟΓΙΙΕ: ΕΧΝ 1 ΤΚΟΨΙΙΕΥ ΖΙΝΕΖ
 '[Add ... a u]nit (of one) *Dirham* of soda upon 10 (units), and mix it on oil'
- (ex. 5-6) BL Or.MS. 3669(1), fol. VII^v, 13-17
 † οΥΨΙ ΝΖΑΤ ΕΧΟ ' P ' ΝΤΕΡΖΑΨ : ... : ΤΚΠΑΣΤΟΥ ... ΤΚΠΑΣΤΟΥ ε80\
 'Add one unit silver to 100 Dirham ... and cook them ... and pour them out'
- (ex. 7-13) P.Berl. P 8316, ro 16-25 **ΜεΤ-ΤΕΔΛΑΣΤ ΕΒΑΛ ... ΝΤΕΕΨΙΤ ΕΖΡΑΪ ...ΝΤΕΒΙΤ** ΕΠΙΈΡΨ ...

 ΝΤΕΠΑΡΙΨΕΒ <ΕΒ>ΑΛ ... ΝΤΕΓΕΚΤ-ΠΑΠΕΪ ΚΑΛΟΓ ΝΚΤΑΑΡ ΕΠΙΙΑΥ ...

 ΚΤΑΛΑ ΕΖΡΑΪ ... ΝΚΓΑΖΤΕ ΖΑΡΑΡ

 'Remove the pot ... and hang it down ... and carry it to the river ... and spread it out ... and grind the madder carefully and give it to the water ... and add ... and heat below it .'
- (ex. 16) P.Cair. 42573 fol. 2 r°, 15-18

 XI ΝΑΚ ΝΟΎΚΕΡΙΙΕ ... ΝΓΤΑΙΎ ΕΖΡΑΙ ΖΝΖΕΝΧΕΒΒΕ ΝΙΨΕ

 'take some ash ... give them into some charcoal'
- (ex. 17) P.Ryl.Copt. 106, 60

 λεμλωμ [...] ... καιτ θυλιαν ετραι τι...

 'wrap [...] ... and throw something of it down upon ...'
 - (ex. 18) P.Méd.Copt.IFAO, line 25-26

 Nοογ καζως ... ΝΓΤΙ ΕΝΒΑζ ΕΤω ΠΚΑΚΕ ϢΑΥΡΟΥΘΕΙΝ ΚΑζως.

 'grate it carefully ... and give it to the eyes being dark, they will become perfectly light'
- (ex. 19) P.Méd.Copt.IFAO, line 156

 •N00Y NITCOOY

 'grind them and soak them'
- (ex. 20) P.Méd.Copt.IFAO, line 329
 ΝοοΥ ΣΙ*ΗΡΗΠ* ΝΓΤΟΟΥ
 'grind them on wine and soak them'

- (ex. 21) P.Méd.Copt.IFAO, line 336

 Nοογ καλως μπτμη πτ† εροογ ψαγλο

 'grind it carefully with the urine and give (it) to them, they will stop'
- (ex. 22) P.Méd.Copt.IFAO, line 87

 καλη ψαντεμφούνε καλως πτονού καλως
 'leave it until it is completely dry and grind it carefully'
- (ex. 23) P.Méd.Copt.IFAO, line 104-105 ፈደባ ቫ፯ጕያባለ ክናት εροογ 'make it a powder and give (it) to them'
- (ex. 24) P.Méd.Copt.IFAO, line 219

 LLY ΝΚο/(ヘヘΥΡΙΟΝ) ΝΓΧΡω

 'make them an eye ointment and administer'
- (ex. 25-26) P.Méd.Copt.IFAO, line 137-138

 χι Νακ Νζενισφονγος ... Νγλαζμου ζιήρπ Νγααν Νκαταπλάςμα

 'Take some sponges ... cook them in wine and make them a plaster'
- (ex. 27-28) P.Méd.Copt.IFAO, line 190-191

 χι ΝΑΚ ... ΝΓΑΑΥ ΝΚΟ (ΧΛΥΡΙΟΝ) ΝΓΠΙΡΙΧΕ ΠΙΙΟΟΥ

 'Take ... and make it an ointment and spread (it) on them'
- (ex. 29) P.Méd.Copt.IFAO, line 262 χι Νεκ ... πρροχμες 'take ... and cook it'
- (ex. 30-31) P.Méd.Copt.IFAO, line 195-196

 ΣΙ ΝΑΚ ΝΓ ΝΟΙΒ ΣΝΟΥ*ΕΖΕ ΝΚΑΠΕ* ΝΤΕΚΤΕΚΉ ΝΒωζΕ ΤΕΚΠΙΡΙΧΕ

 ΠΠΟΟΥ ΣΝΠΕΥCΝΟΥ

 'take 3 ticks from a black cow and pull the lashes out and rub

 (περιχείν) them with their blood'
- (ex. 32) P.Méd.Copt.IFAO, line 193 דשׁקַּסיץ ... אַרְאַזו 'pierce them ... and take'
- (ex. 33) P.Méd.Copt.IFAO, line 249 אורברסץ אראבשש 'boil them and administer'
- (ex. 35) P.Méd.Copt.IFAO, line 269
 † ογ*τοεις νωιλ* εχως ντμορες
 'give a [certain kind of] cloth on it and bind it'
- (ex. 36) P.Méd.Copt.IFAO, line 274 פעו פאר אראבאשנ 'melt them and smear it'

- (ex. 37) P.Méd.Copt.IFAO, line 352

 •[...] μμος νεητού ντηριχνε δνεςβαλ

 '[...] it in them and rub (περιχείν) his eyes'
- (ex. 38) P.Méd.Copt.IFAO, line 400-401

 очши гевы мг+ ероч кмар шпнре

 'mix it with honey and give (it) to him; you will be amazed'

b) With conjunction

- (ex. 39) P.Ryl.Copt. 106, 25-27 **ΨΑΤ**Ψ ΠΕΝΕΚΟΠΟΤΟΥ ΕΠΙΜΟΠΕΤ ΕΖΟΟΥ ΕΚΟΌ ΠΙΩΟΥ ΕΚΟΙΤΕ ΕΖΡΑΙ **ΑΥΌ** ΤΕΚΩΙ ΤΕΥΖΙΚΗ ΝΕΠΗΝΕ

 'Cut (?) it with your lips these three days while you drink it and spit it out, and you will take hearing(?) daily'
- (ex. 40-42) P.Méd.Copt.IFAO, line 54-55

 кач эпрн न г шппсшс пгонооч он пгталу пзүрөн ете
 пгалу псох

 'put it in the sun three days, afterwards grind them again and give
 it as powder, or make it a plug'
- (ex. 43) P.Méd.Copt.IFAO, line 143-144

 ΤΑΙΥ ΣΙΧΌ ΠΕΤΌΜΝΕ ΜΝΓΟΌ ΤΕΚΠΑΓΤΟΥ ΚΑΛΛ(Φ)

 ΨΑΝΤΕΎΓΗΝΖΙΓΤΑ

 'give them to the patient and afterwards cook them well until they combine'
- (ex. 44-46) P.Méd.Copt.IFAO, line 235-237

 •ΝΟΟΥ ΖΙΗΡΠ ... ΕΙΕ ΤΕΚΤΙ ΠΑΝΙΚΑΙΙ ΕΥΧΕΛΛΟΓ ΝΓΟΎΨ ...

 ΤΕΚΚΑΠΝΙΖΕ ΠΙΙΟΥ ... ΕΙΕ ΝΓΧΙ ΝΟΥΠΕΖΙΙΟΎΖΕ

 'grate them on wine ...or give the anikam(-vitriol) in wheat juice
 ... and you shall smoke it ...or take purslane'

4.1.2. Sub-coordinating expansion

- a) orwz
- (ex. 47) BL Or.MS. 3669(1), fol. VIII^v, 7-8

 catte zapoq ωμντηβρβρ : ογαζη εβολ τη κβο

 'heat below it until it boils; put it away so that it cools down'
- (ex. 48) BL Or.MS. 3669(1), fol. VIII*, 8-10

 CTOQ WN ΕΠΚΟΣΤ : WANTGEPEP: ΟΥΑΖΟ ΕΠΕΖΗΤ ΤΌΚΕΒΟ

 'put it to the fire again until it boils; put it down so that it cools down'
- b) KW
- (ex. 49) BL Or.MS. 3669(1), fol. X^v, 10 KLLC TEWOOYE 'let it dry'

- (ex. 50) Bodl.MS.Copt. (P) a.1, c 1
 και τεγογως

 'Let it precipitate'
- (ex. 51) Bodl.MS.Copt. (P) a.3, r° 51 גאַן דנוסץשכ 'Let it precipitate'
- (ex. 52) Bodl.MS.Copt. (P) a.1, c 5
 και τεμωοογε
 'Let it dry'
- (ex. 53) Bodl.MS.Copt. (P) a.3, r^o 53
 καη τεηψεογε^{sic}
 'Let it dry'
- (ex. 54) Bodl.MS.Copt. (P) a.2, line 57
 και τειμωνίε
 'Let it dry'
- (ex. 55) P.Ryl.Copt. 106, 58
 KALY TOYKEO

 'Let them cool down'
- (ex. 56) P.Ryl.Copt. 106,68-69
 κλιγ ... Τογωοογε
 'Let them dry'
- (ex. 57) P.Méd.Copt.IFAO, line 93-94

 και τεμφούνε (frequently instead: και ωιντε ... ωιντε ...
- (ex. 58) P.Méd.Copt.IFAO, line 156 καλη τεμφούνε 'Let it dry'
- c) TI
- (ex. 59) P.Méd.Copt.IFAO, line 62
 ארסטי פיששע בוניוש ל אגן דנייש[עו]

 'grate them, mix (it) with honey, give him to eat'
- (ex. 60) P.Méd.Copt.IFAO, line 128
 † ΝΑΥ ΠΥΟΥΨΗ ΝΕΙΟ†ΚΟΟ ΣΙΗΡΠ
 'give him to eat sufficiently with wine'
- (ex. 61) P.Méd.Copt.IFAO, line 136
 + אגן אקסישע קאנסיייגעו

 'give him to eat, (and) he will become well'
- (ex. 62) P.Méd.Copt.IFAO, line 420 † ΝΑΥ ΤΕΥΟΥΜΗ 'give him to eat'

- (ex. 63) P.Méd.Copt.IFAO, line 235-237

 ειε τεκτι πανικαμι εγχελλος νίσης τεψίση

 or give the anikam(-vitriol) in wheat juice that he [the patient]

 shall drink it'
- d) Other verbs
- (ex. 65) P.Méd.Copt.IFAO, line 414
 օ ծ ծ այս էլ եզւա ուզ(օ ծ) առ ուշ-իւսն

 'mix (them) with honey, that he may eat sufficiently'
- (ex. 66) P.Méd.Copt.IFAO, line 407
 πεττογ Νοογω Νη(ογ)ωμ Νεε+κοε
 'cook it to mush, that he may eat sufficiently'
- (ex. 67) BL Or.MS. 3669(1), fol. I^v, 16-17
 [ijΙΤ]ΟΥ ΝΚΙΜΕ ΧΕ ΟΥΗΡ 2100Υ
 'measure them to recognize how much are on them'
- (ex. 68) P.Berl. P 8316, ro 16-25

 ΝΤΕΒΙΤΟ ΕΠΙΈΡω ΝΤΟΥΡΕΖΡωζΟ ΕΒΑΛ

 'and carry it to the river, that it will be washed out'
- (ex. 69) P.Berl. P 8316, ro 16-25
 ΝΤΕΠΑΡϢΕΒ <ΕΒ>ΑΛ ΝΤΕΨϢΑΥΕΪ

 'and spread it out, that it becomes dry'
- (ex. 70) P.Berl. P 8316, ro 37-45 אהנוכדנ בואון אפאפף 'and heat below so that it boils'
- 4.2. Future I, II, & III expanded by conjunctive
- 4.2.1. Future I expanded by conjunctive
- (ex. 72-73) P.Méd.Copt.IFAO, line 56-57

 EMBUTE ACUCE CNAP # 3 NTEC (EMBUTE NTECWCE CNAP # 1 EIE

 TEZOYO ENAI TECEI EZPAI

 'if it has been delayed, it will last 60 days and (then) it will stop, if

 it hasn't delayed, it will last 10 days or more than those, and (then)

 it will come up.'

- 4.2.2. Future II expanded by conjunctive
- (ex. 74) P.Méd.Copt.IFAO, line 186

 εκιζελζωλου εχν πμοου ετκης νιτιίς ερος

 'you shall pour them on the cold water and give it to him'
- 4.2.3. Future III expended by conjunctive
- (ex. 75) Bodl.MS.Copt. (P) a.1, d 11-12
 ερεπλουτε τιις επζητ κπίζις νι ατιιοί ετιιεχίνη

 'May God give it into the master's heart, that he may explain me the machine'
- (ex. 76) Bodl.MS.Copt. (P) a.3, r° 72-73
 ερεπλουτε τας επζητ κπέαζ αταμιόν έρος
 'May God give it into the master's heart, that he may explain it to us'
- (ex. 77) Bodl.MS.Copt. (P) a.3, r° 77-78

 ερεπνούτε ταα[ε] επείζητ τε<</p>
 'May God give it into his heart, that he (the teacher) may explain me the machine.'
- (ex. 78-79) (?) P.Méd.Copt.IFAO, line 384-385

 πζας ... εκ.θνου καζως ... Νγεςπ ουκρμε νεορτ νγκας εχνίμα

 νιμ ευτικάς ζνπρωμε υνάζο ζνουσετημ

 'The excrement, you shall grind it carefully⁶⁶ ... and soak a lump

 of wool and put it on every distressing place at the man, (than) it

 will stop immediately"
- 4.3. Aorist expanded by conjunctive
- a) Subject maintained
- (ex. 80-83) P.Berl. P 8316, ro 4-7

 Υου shall grind it and give it ... and give the item ... and wash it out ... and put it'
- (ex. 84) P.Berl. P 8316, ro 11-13

 ψεκειπ ογκογι ... πκμιρφ

 'You shall take a bit... and bind it'

⁶⁶ Ém. Chassinat, *Un papyrus médical copte*, p. 305: "La fiente ... que tu tritures bien", but the direct object construction speaks against adnominal circumstantial. Alternatively εκ- may be conjunctive in injunctive use (cf. below, n. 36), third future, or protatic εqcwτμ.

(ex. 85-92) P.Berl. P 8316, ro 27-34

MKSTRCA " NK17/14 NULLOC ELECHT NK00R00 Ebta NK100R00 NULLOC ELECHT NK00R00 Ebta NK100R00 NULLOC ELECHT NK00R00 Ebta NK100R00 NULLOC ELECHT NK00R00 Ebta NK100R100 NULLOCATION EDGE NK100R100 NULLOCATION EDGE NK100R100 NULLOCATION EDGE NK100R100 NULLOCATION EDGE NK100 NULLO

"You shall ... and ...

(ex. 93-103) P.Berl. P 8316, ro 37-45

 \mathbf{w} икиеz-папеї ... \mathbf{N} кталач \mathbf{N} ксагте $^{\circ}$ рач ... \mathbf{N} ктаач епбаї \mathbf{N} к. Δ 1-пітос ерач \mathbf{N} к \mathbf{w} \mathbf{w} ерач \mathbf{N} 0 годинату \mathbf{N} 1 годинату \mathbf{N} 2 годинату \mathbf{N} 3 годинату \mathbf{N} 4 годинату \mathbf{N} 5 годинату \mathbf{N} 6 годинату \mathbf{N} 7 г

'you shall ... and ...

(ex. 104-120) P.Berl. P 8316, vo 1-16

MKEML ESPHI " NKRILD ELIEBM UKDESDM« EBTV UKNLA UKEML ELBHZ " NKRILD ELIEBM UKDESDM» EBTV UKNLA UKUTA ELBHZ " UKRILD ELIEBM UKDESDM» EBTV UKNLA ESPHI " UKEML ESPHI " UKRILD ELIEBM UKDESDM» EBTV UKNLA UKEML ESPHI " UKETVA

'you shall ... and ...

- (ex. 121) BL Or.MS. 3669(1), fol. IX^v, 14 **ψ4** Ψτεψq: τε Ψελτ πελειτηρε

 'it will get soaked and will be spread upon the tin'
- (ex. 122) Bodl.MS.Copt. (P) a.1, b 2-3 **φ4**98ωλ ε80λ Τεφρμουγ

 'it will dissolve and (finally) become liquid'
- (ex. 123) Bodl.MS.Copt. (P) a.3, r° 25-26 **33.** 498ωλ εδολ Τεβερμοογ

 'it will dissolve and (finally) become liquid'
- (ex. 124-125) Bodl.MS.Copt. (P) a.1, b 14-16

 ωμφρκαθαρι ... Νησωινε ... Νησωσε προιτε Ναλαγ

 'it will become clean ... and prepared ... and it will dye the white dress'
- (ex. 126-127) Bodl.MS.Copt. (P) a.3, r° 32

 ωμφερκα-θαρε ... Νησωινε ... Νεσχωχε πζοιτε ναζαγ

 'it will become clean ... and ready ... and it will dye the white dress'
- (ex. 128-129) Bodl.MS.Copt. (P) a.1, d 2-3

 ΟΥΠΕΧΙΝΗ ... ΕΨΙΚΝΟΥΤ ΝΌΜΙΙ ΤΗΡΟΥ ΝΌΒΟΛΟΥ ΕΒΟΛ ΝΌΙΙΥ

 ΤΙΙΙΟΟΥ

 'a machine ... that grinds every metal and dissolves them and liquifies them.'

- (ex. 130-131) Bodl.MS.Copt. (P) a.3, r° 66
 שבנאפץד נשעב אוע אנפפלסץ בפסל אנגבץ אעספץ

 'it grinds every metal and dissolves them and liquifies them.'
- (ex. 132) Bodl.MS.Copt. (P) a.3, r^o 50 **ψερε** Σερμες Βωλ εκολ Τε**q**ερμουΥ

 'the quicksilver dissolves and becomes liquid'
- (ex. 133) Bodl.MS.Copt. (P) a.2, line 40-41

 ψα μογω-θ ερογεωμα νογωτ

 'it will melt and become one single body'
- (ex. 134-135) P.Ryl.Copt. 106, 35-36

 шакочши гароч ачш шачт[...] ... нчшхн нпапочер

 нчкалол[...]

 'you may eat of it and it will ... and it will stop the apousir and it
 will ...'
- (ex. 136) P.Méd.Copt.IFAO, line 129

 υμηκεζκωζοΥ Νητρεγψοογε

 'it will heal them and make them dry out'
- (ex. 137) P.Méd.Copt.IFAO, line 223
 พุษาวัง ธาง พิวุทยาม พิธธณฑน พิธธณฑน พิธธณฑน 'they will stop to have a cold and they will hear again'
- (ex. 139) P.Méd.Copt.IFAO, line 411

 way το τογωουνε

 'they will recede and become dry'
- b) Subject maintenance disrupted
- (ex. 140) Bodl.MS.Copt. (P) a.1, g 13-16

 w σρεογωι νζ/ητή ζε εχν ζ ζνηζοιτε ... ναριζιγ

 'One unit of it will fall upon 7 (units) of the dress, and it will become white.'
- (ex. 141) BL Or.MS. 3669(1), fol. VII^r, 9-10 **ΦΑΡΕΠ**ΜΙ ΝΒΑΡΟΤ ΠΟΤ: ΝΤΕΠΟΟΖ 60

 'the weight of copper will disappear, while the moon (i.e., the silver) maintains'
- 4.4. Terminative expanded by conjunctive
- a) Subject maintained
- (ex. 142) P.Berl. P 8316, ro 26
 שבאדנין בעבע אונייטעע

 'until it will be heated up and will be boiling'

- (ex. 143) P.Berl. P 8316, vo 13 **ΨΑΝΤΕ ΨΑΝΤΕ ΨΑΝΤΕ ΝΒ ΚΒ W**'until it becomes dry and cools down.'
- (ex. 144) Bodl.MS.Copt. (P) a.1, a 17

 καιν ψιντέγεως εβος τεγρμοος

 'Leave them until they dissolve and (finally) become liquid'
- (ex. 145) Bodl.MS.Copt. (P) a.3, r° 12
 κλιγ ψιντογεως εδος τογερμοογ
 'Leave them until they dissolve and (finally) become liquid'
- (ex. 146) Bodl.MS.Copt. (P) a.1, b 5 **ΦΑΝΤΕΥΒ**"until they dissolve and (finally) become liquid'
- (ex. 147) Bodl.MS.Copt. (P) a.3, r^o 27 **ΒΕΙΝΤΟΥΒ**"until they dissolve and (finally) become liquid'
- (ex. 148) Bodl.MS.Copt. (P) a.2, line 61-62
 και ψατειβως εβος τεβες ρ>μοος
 'Leave it, until it dissolves and becomes liquid.'
- (ex. 149) Bodl.MS.Copt. (P) a.3, r° 68-69 **ψατεκ** σετ-θυπάζρε ζιχω πενίπε τεκλεκλωκή καλως

 '...until you throw an ingredient on the iron and you soften it well'
- (ex. 150) Bodl.MS.Copt. (P) a.2, line 48:

 wanteqχρο τεqωοογε

 'until it becomes solid and dry.'
- (ex. 151) P.Méd.Copt.IFAO, line 230 **ΦΑΝΤΕ**ΨΩΡΟ ΤΕΨΨΟΟΥΕ

 'until it becomes solid and dry'
- b) Subject maintenance disrupted
- (ex. 152) BL Or.MS. 3669(1), fol. V^r, 7

 w]antqoybaw: Ntk [...] (?)

 'until they become white, and you ...'
- (ex. 153) Bodl.MS.Copt. (P) a.1, c 3-5 **ΨΑΝΤΕ**ΤΤΙΠΕ ΝΠΖΗΔΙΧ Δω ΖΙωΨ ΝΤΕΠΕΡΙΔΙΟΥ CWTΨ

 'until the taste of the vinegar will cease on it and its water becomes clear.'
- (ex. 154) Bodl.MS.Copt. (P) a.3, r° 52-53 **ΨΑΝΤΕ**ΤΙΠΕΝΠζΗΜΕΧ Λω ΖΙΜΥ ΤΕΠΕΥΜΟΟΥ COTY

 'until the taste of the vinegar will cease on it and its water becomes clear.'
- (ex. 155-156) Bodl.MS.Copt. (P) a.1, e 18-19

 ΨΑΝΤΕΚΛΕ ΕΚΝΑΥ ΕΡΟΥ ΕΥΜΙΑ ΝΥΒΕΙΛ ΤΕΥΡΙΠΟΟΥ

 'until you cease to recognize it being a body and it dissolves and becomes liquid.'

- 4.5. Protasis in conditional construction expanded by conjunctive
- a) Conditionalis
- (ex. 157) Bodl.MS.Copt. (P) a.1, b 9-11

 εκωλησολ[[.]] η εκολ πωρώτ περά πγικτ μμος ωλεγρωψε

 'if you dissolve it three times and you solidify it, then it will be sufficient'
- (ex. 158) Bodl.MS.Copt. (P) a.3, r° 29-30 εκωληβωζη εβοζ ης νεοπ κλεκητ νίμοη ψληρωψε 'if you dissolve it three times and you solidify it, then it will be sufficient'
- (ex. 159) Bodl.MS.Copt. (P) a.1, d 5-6

 εκψαΝτι ππαζρε εχως περακρεκ ωμεβωλ νέωμα τηρογ

 'if you add the ingredient to it and it becomes soft, then it will dissolve every body'
- (ex. 160) P.Méd.Copt.IFAO, line 192

 εκψιν*λογης* δγχρω μμος ενβιλ ετω δβογζε μεγρωτ δκεςοπ

 'if you ... [unclear], and you apply it to the eyelashes, they won't grow again'
- (ex. 161) P.Méd.Copt.IFAO, line 226

 εκψιναμηντη τεκ.χοντη

 'if you produce it and prove it'
- b) Other conditional constructions
- (ex. 162) BL Or.MS. 3669(1), f. VII^v, 6-9

 NULKΠΙΘΕ ΝΕΟΠ Ζ ΝΙΨΤ: ΕΧΟ ΟΥΤΕΡΞΙΙΙ ...: ΤΚΤΙΛΟ: ΟΥΤΕΡΕΣΧΝ Ι

 'if you decide to take 7 habba on one Dirham ... and you add one Dirham on 10'
- (ex. 163) P.Berl. P 8316, ro 14

 ΝΒΑΥΒΑΣ ΕΒΑΣ ΝΤΟΥ ΕΝΤΕ ΕΑΒΕΕΠ-Χωσε

 'if it will be dissolved and it will be found having taken the colour'
- (ex. 164) P.Ryl.Copt. 106, 60

 εκεθυωμ νουτ τλιττ>κτλ ζίωων τυ ντικούωμ ουένγιον
 τεκζίωτν ενείωτν κωφείλε ζίρος

 'thou shalt eat one mithkal-weight thereof and when (Perf. II as temporal clause) you hast eaten a jar (thereof), and thou ..., thou shalt have benefit therefrom'
- 4.6. Conjunctive as apodosis in conditional construction
- (ex. 165) BL Or.MS. 3669(1), f. II^v, 21-22

 εκψανασή ππεκ[π]το ε-βολ πτιμε αξ αφέρεαμ

 'if you do it in front of yourself, you shall recognize if it has become beautiful'

- (ex. 166) P.Ryl.Copt. 106, 60

 εκεθυμμ νους αλμα<τ>καλ ζιώων αν ντακούωμ θυενγιον
 τεκζιώμν ενειώμν κωφείλε ζαρος

 'thou shalt eat one mithkal-weight thereof and when you hast eaten
 a jar (thereof), and thou ..., thou shalt have benefit therefrom'
- 4.7. Conjunctive as "injunctive apodosis"
- (ex. 167) P.Méd.Copt.IFAO, line 48

 דבה האשבוה (בא. 167) בוואפל-נו ארן ברססץ שביף של (Burned ram horn and true oil: You shall give (it) to them (and) they will grow'
- (ex. 168) P.Méd.Copt.IFAO, line 78

 ογμοογ μπογειογ: είψε πβλιμπε ζιερω(τε) π*εζιμε* πετι εροογ

 '(Against) water and star [two eye diseases]: ram gall and milk of a woman, you shall give (it) to them'
- (ex. 169) P.Méd.Copt.IFAO, line 198
 (list of ingredients) ПГРАХОУ ПГ-ӨНООУ
 '...: You shall burn them and grind them'
- (ex. 170) (?) P.Méd.Copt.IFAO, line 384-385

 ΠζΑΣ ... ΕΚ-ΘΝΟΥ ΚΑΛΟΣ ... ΝΓΣΕΠ ΟΎΚΡΙΙΕ ΝΟΟΡΤ ΝΓΚΑΣ ΕΧΝΙΙΑ

 ΝΙΙΙ ΕΥΤΙΚΑΣ ΖΝΠΡΟΙΙΕ ΥΝΑΛΟ ΖΝΟΥΘΕΠΗ

 'The excrement, you shall grind it carefully 67 ... and soak a lump of wool and put it on every distressing place at the man, (than) it will stop immediately"
- 4.8. Causative imperative expanded by conjunctive
 - (ex. 171) P.Ryl.Copt. 106, 21-22 шаречсооч гітвите течсо [...] 'he shall drink it on ...(?) and he shall drink ...'
 - 4.9. Causative infinitive expanded by conjunctive
 - a) Causative infinitive used as verbal predicate
 - (ex. 172) P.Méd.Copt.IFAO, line 170

 סץ־פּאָרְסְּאַ בּשֶּׁבְּעְדְיְבָּהְאָבֹּאְ דְּסִיּעְסְבּוֹא אוֹכֹבּאִבְץ בּאַסְאַ בַאַחוֹסִיבּ אוֹגּסִין עֵוּא
 אואסים

 'A powder that makes the eyes become light and let them recognize small and large things in the distance'
 - (ex. 173) P.Méd.Copt.IFAO, line 97

 ΟΥΚΟΛΛ(ΥΡ)ΙΟΝ ΕΝΑΝΟΥΣ ΚΑΛωΣ ΜΑΣΤΡΕΠΟΥΘΕΙΝ ΧΑΨΤΕ

 ΝΥΡΟΥΘΕΙΝ ΚΑΛωΣ

 'A very good ointment: It will let the light go in, and that it becomes perfectly light'

⁶⁷ Cf. previous note.

- (ex. 174) P.Méd.Copt.IFAO, line 199

 ωμητρεγκιζε Νεεββογζε

 'it will make them [bald eyes] smooth and that they get lashes'
- b) Causative infinitive used as 'that' form
- (ex. 175) P.Méd.Copt.IFAO, line 353

 ΟΥΠΙΖΡΕ ΕΝΕΠΛΥΓΗ ΝΙΣ ΕΤΡΕΥΛΟ ΝΟΕΚΙΖΕ

 'A recipe for old sores, that they recede and become smooth'
- (ex. 176) P.Méd.Copt.IFAO, line 363

 ογειψ ετρεγχωωρε εβολ ει τεγογων

 '(For) a sore that it ceases or opens'
- 4.10 Conjunctive used as 'that' form and in adnominal use
- a) that form governed by verb of incomlete predication
- (ex. 177) P.Cair. 42573 fol. 1 r°, 11-12 τεκογωμ τερωμε κιμ μεστος '...you wish that everybody hates him'
- (ex. 178) P.Méd.Copt.IFAO, line 48
 [...] εκογωψ τετρωτ
 '... of which you want that it grows well'
- b) that-form goverened by a conjunction
- (ex. 179) P.Cair. 42573 fol. 2 r°, 6-7 είμωπε τεκούωμ εμε χε αγέρουζων εύζιμε
 'If it happens that you wish to know if they had it off with a woman'
- c) Adnominal: that-form
- (ex. 180) P.Méd.Copt.IFAO, line 370

 ΟΥΑ ΝΤΕΝΕΨΒΑΣ ΡΟΥΘΕΙΝ ΚΑΣΦΕ

 'One, that his eyes become perfectly light' (The interpretation suggested by Ém. Chassinat, *Un papyrus médical copte*, p. 300, n. 3: "Litt.: « un non ses yeux brillent bien », ne sont pas clairs, sont voilés. ΝΤΕ est pour ΝΤΑ ... ΑΝ" seems unlikely)
- (ex. 181) P.Méd.Copt.IFAO, line 396

 ογκολλ(γρ)ιον ετβε νβαλ ετο νζρεγμα τεγωβώ ντεγνογ

 'an ointment for rheumatic eyes, that they lessen at once'
- d) Adnominal: attributive
- (ex. 182) P.Cair. 42573 fol. 1 r^o, 11-12 σγρωμε τεκογωψ τερωμε κιμ μεςτος 'A man you wish that everybody hates him'

- (ex. 183) P.Ryl.Copt. 106,30

 ουπάζρ Νώχην Ννός έξαιε καζώς ... τεκούομη ζαφορή
 μπατεκ[ου]ομ ζαυ

 'A very good garlic recipe ... which you shall eat in the morning before you eat anything'
- 4.11. Function not recognizable for lack of context
- (ex. 184) BL Or.MS. 3669(1), fol. I', 16
 [...] NKILLE X[E] LINZLLY N[...]

 'and you know that there is nothing of ...'
- (ex. 185) BL Or.MS. 3669(1), fol. II^v, 7
 [...] Ντεεκ πλοιοε [...]
 '... and you draw the amount ...'