A Middle Assyrian Hippology Fragment in the British Museum

Jacob Jan de Ridder – Friedrich-Schiller-University, Germany jacob.jan.de.ridder@uni-jena.de

[The British Museum holds a fragment describing horse training, which can be related to similar tablets from the reconstructed Middle Assyrian library (M 2). As the presence of coughing can be demonstrated in one fragment in the Assyrian hippology corpus, it implies that this corpus deals to some extent with horse healthcare, contrary to the Hittite Instructions of Kikkuli (CTH 284).]

Keywords: Middle Assyrian, hippology, Aššur, Kikkuli, Mittani.

In this short article a new fragment (BM 120122) of the Middle Assyrian horse training text is presented. This is a fragment of a larger tablet which measures 116 x 86 x 30 mm and was purchased in 1928 from Maj. V.E. Mocatta. Similar fragments stored in the Pergamon Museum Berlin and the Archaeological Museum of Istanbul were studied and published by E. Ebeling in Bruchstücke einer mittelassyrischen Vorschriftensammlung für die Akklimatisierung und Trainierung von Wagenpferden (1951, henceforth BVW). To date, this remains the only edition of the Middle Assyrian hippology text. The fragments included within the BVW were identified with the letters A-U; following this method, the fragment published here could be labelled "W." All of these fragments likely belong to the same tablet (rather than to multiple copies of the text) which can provenanced to the reconstructed M 2 temple archive (Pedersén 1985, 38ff; an overview in de Ridder 2018, 22) at Aššur. When Ebeling (1951, 46–47) studied the material, it was impossible for him to offer a composite text. Individual lines could be reconstructed due to the repetitious character of the tablet; however, it was this same repetition that caused difficulties in reconstructing the correct order of the instructions. Unfortunately, the tablet offered here will not solve the puzzle entirely, and I was not able to make a physical join with any other fragment. Nevertheless, it seems possible that other pieces in Istanbul and Berlin awaiting publication will someday allow us to obtain a full composite text. An overview of the different fragments:

^{1.} While the tablets excavated during the German excavations in Aššur (modern Qal'at Sherqat) between 1903–1914 were officially divided between the Vorderasiatisches Museum (Berlin) and the Archaeological Museum (Istanbul), several pieces ended up in different collections (see Grayson 1983; Pedersén 1985, 19–20; 1986, 161, 176).

	Museum no.	Excavation no.	Pedersén 1985
BVW A	VAT 10450	Ass. 285	M 2 3
BVW Ab	A 698	Ass. 7745	M 2 39
BVW Ac	A 608	Ass 19007	M 2 46
BVW B	VAT 8711	Ass. 7112	M 2 34
BVW C	VAT 9645	Ass. 3108	M 2 6
BVW D	VAT 1041	Ass. 171	M 2 1
BVW E	VAT 9561	Ass. 6555	M 2 24
BVW F	VAT 9542	Ass. 19259	M 2 56
BVW G	VAT 9751	Ass. 2108	M 2 5
BVW H	VAT 14425	Ass. 10199	M 2 42
BVW I	A 670	Ass. 8842	M 2 37
BVW K	A 710	Ass. 7294	M 2 37
BVW L	_	Ass. 5867	M 2 44
BVW M	A 93	Ass 19172a	M 2 53
BVW N	A 112	Ass 19172b	M 2 53
BVW O	_	Ass. 19255	M 2 55
BVW P	A 2489	Ass. 19207	M 2 54
BVW Q	A 610	Ass 19162	M 2 52
BVW R	A 692	Ass 19060	M 2 48
BVW S	A 691	Ass 5867	M 2 45
BVW T	_	Ass 13361	M 2 43
BVW U	A 640	Ass 6731a	M 2 26
BVW W	BM 120122	_	_
BVW Ko	VAT 9426	-	-

The content of BVW in general can be summarized as following: it describes when and how much to feed horses, when and how far to let them run for practice and how to let them rest afterwards. In this regard, BVW is very different from the hippiatric texts from Ugarit, which concentrate on the treatment of sick horses (see Cohen/Sivan 1983, 2).² The Hittite text called "Instructions of Kikkuli" (CTH 284) is more useful for comparison, since it deals with similar horse-training topics.³ If the length of this Hittite text is anything to go by (it is 1080 lines long, following Starke 1995, 3) we may understand why no composite texts can be reconstructed for BVW; only 290 very damaged lines were provided by Ebeling, who did not have access to fragment W.4 The Instructions of Kikkuli and BVW are certainly not different versions of the same text; Kikkuli was the name of the eponymous horse trainer from Mittani and this text is written in the 3rd person, describing what Kikkuli did to take care of horses. BVW is written in the second person and in Assyrian dialect, much like the perfume texts (Ebeling 1948ff) and does not exhibit any influences from the Hurrian/Mittanian substrate. A Hurrian PN was reconstructed for the scribe by Ebeling (1951, 58): [Ki-ik]-ki-ni su-sa-nu DUMU [....] BVW A r. 5 (see also Richter 2016, 156b). However, as correctly pointed out by Jakob (2003, 221) it is equally possible to read the two preserved signs as the Assyrian element kēnu (Saporetti 1970, 120). The occurrence of the Hurrian

^{2.} For a general edition of these texts, see Cohen/Sivan 1983; Cohen 1996; Loretz 2011.

^{3.} The prime edition is Kammenhuber 1961.

^{4.} See also Stol in Loretz 2011, 373.

loanword *taḥapšu* 'felt' is not significant for a possible Hurrian origin, as this word is common in the Middle Assyrian corpus (Jakob 2003, 221).

Transliteration

- Obv. [...] ŠE^{-um?} [ma²-la² 1²]-^{\$u} hu-la
 [i+na țu-be-ka ... K]ASKAL⁻ⁿⁱ ma-la si-ip-sa-te
 [te²-pa²-aš² (...) ta-hap]-še tu-¬pa¬-ta
 [... t]a-pa-ṭar ¬A¬^{meš} ta-ša-qi
 5 [... ½²t]^{a.àm} i+na up-ni ŠE^{-am}
 [i-šap-pa-ka-šu-nu e-ku-lu (?)] ¬Ú²¬^{meš} tu-ma-ša-ad
 [... tu-ma]-ša-ad ka-na-ma-ri
 [...] a-¬di ta¬-hap-še
 [ta-ra-kas (?) ma-la s]i-¬ip-sa¬-te

 10. [ta-la-bi (?) ta-kal-la i+na hu-l]i tu-ka-šad
- Rev. [...] $\lceil x \rceil \check{S}E^{-um??}$ [... ta]- $\lceil pa-tar \rceil$ [i]- $\lceil na \rceil$ - $pu-\check{s}u$ [...] $2^{-\check{s}u}$ \acute{u} ra-si-ni $te-pa-\acute{a}[\check{s}]$ [... ma-la] hu-la i+na tu-be-ka $3^{-\check{s}u}$
- [... ma-la] nu-la 1+na lu-be-ka 3 **

 5'. [...] i+na-pu-šu ta!-ra-kas

 [... ta-pa-t]ar tu-uš-ga-ra-a-ar

 [tu-ṣa-raḥ tu-ṣa-ap (...) A]^{meš} ta-ša-qi ma-la su-ʾa-li

 8'. [...(2) 2)^{ta-àm} i-na un ni ŠE-^{am} ta šá na ka šu nu a ku
- 8'. [... (?) $2^{\tilde{\gamma}_{a-\tilde{a}m}} i+na\ up-ni$] Š $E^{-am}\ ta-\tilde{s}a-pa-ka-\tilde{s}u-nu\ e-ku-lu$

Obv.

- 1–2) [...] barley [when?] you (prepare?) the path [well?] for the [first?] time
- 2–3) [... you take] the road in accordance with the poles.
- 3) [...] (then) you will open up the [felt-cove]rs.
- 4) [... you] will release and give them water to drink,
- 5-6) [... half'] a palm of barley each [you will pour out for them, (and) they will eat].
- 6–7) You will rub grass(?), [...] you will rub.
- 7–9) In the early morning [... you will tie] with felt.
- 9–10) [you will make rounds in accordance with the p]oles and you will rein the horses (and) make the journey.

Rev.

- 1') [...] barley.
- 2') [...] you will unyoke (the horses) and they will breath.
- 3') [...] a second time and you will do *rasīnu*.
- 4') [... when] you (prepare?) the path well.
- 4'-5') A third time [...] they will breathe, and you will harness (them).
- 6'-7) [...] you will unyoke (them) and allow (them) to roll on the ground, [keep (them) warm, rub (them) down] and give (them) water to drink.
- 7'-8') Once phlegm [... two? palm of barley each] you will pour out for them and they will eat.

Commentary

- 2) The noun *sipsātu* is a case of the Assyrian propensity to swap <s> and <š>. As such it is attested in NA as *šipšātu*, see de Ridder 2018, 147 § 223. The meaning of the noun remains uncertain. It is usually believed to be an architectural feature in NA sources, see CAD Š₃, 85b; AHw, 1246–47. Parpola (1987, 156, 202) suggests that it may be a beam, also written logographically as ^{giš}ŠÚ.A in Assyrian.⁵ Ebeling (1951, 51) believed the *sipsātu* to be wooden poles fencing the training area and compared it with Hittite *yašanna* found in the *Kikkuli* text.⁶
- 3) The phrase tahapše tupatta occurs one or two times in BVW, however always with the final sign missing. Ebeling reconstructed a verbal form of pašāru 'to release' (tu-pa-[šar] B:4; [tu-pašar] I r. 6). The CAD T (p. 40b) is more careful and leaves the form at tu-pa-[x]. Fragment W makes it clear that the verbal form derives from $pet\hat{u}$ 'to open', with the same interpretation as we find for no. 1. The interpretation remains more or less unchanged; the horses are running while covered with tahapšu. The textile tahapšu has been demonstrated by Postgate (2000; 2014, 406–7) to be felt, used mainly in the Nuzi documentation for horse-armour but which also saw varied application in the production of boots, hats, coats and furniture in Middle Assyrian sources. For its status as a Hurrian loanword, see Richter 2012, 425–26. The use of tahapšu in BVW fits well with the Nuzi material, e.g., a-di ta-hap-še ta-ra-kas 'you will bind (the horses) with felt' BVW F:6 or adi ta-hap-še il-lu-ku 'they will run (saddled) with felt' BVW G:9. Compare the Kikkuli text: 1 DANNA ua-aš-ša-an-te-eš ú-u[a-]an[-zi] 'one mile they will run covered' CTH 284 II ii 3.' See also Stark 1995, 41-42 n98; uešš- 'to cover (horses)' Kloekhorst 2008, 1004-7. The objection given by Stark that there is no direct parallel is based in part on his outdated translation of tahapšu as "Riemen, Gurt." Livingstone (1989, 151b) translates tahapšu as 'saddle', which implies that one would be able to ride the horse while sitting on the felt. When the horses transpired too much, the tahapšu-covers/saddles needed to be opened up or loosened in order for the horses to cool down a bit.
- 6) The verb $ma \bar{s} \bar{a} du$ 'to strike' is attested for the first time in BVW with the meaning 'to rub' in the D-stem, see also CAD M_1 , 351–52. The word preceding it remains unclear and the restoration U for 'grass' or 'plants' is tentative. Equally possibly is U 'oil' perhaps even $[pa]^{-\lceil ni \rceil}$ 'faces.'
- 7) For *kannamāre* 'in the early morning' from **kal-namāre* (with NA *kallamāre*) see Streck 2017, 598; de Ridder 2018, 332–33 § 491, *contra* PI *na-ma-re* in Ebeling 1951, 43. Cf. Freydank 2010, 665–66 and see also Jakob 2009, 41.
- 10) This line is reconstructed in analogy with *BVW* F r. 13–14. The translation of the verb *kalû* as 'to hold back > rein in horses' follows CAD K, 101a. For *kašādu* 'to reach' > D-stem 'to make a journey,' is a use of the verb otherwise only attested in OA, see CAD K, 281a; Kouwenberg 1997, 213.
- r. 3') The noun $ras\bar{\imath}nu$ appears to be an oblique plural. Following CAD (R, 182a) its meaning is unknown and occurs only in BVW. Von Soden offers the unexpected interpretation "etwa Teigklümpchen" as well as certain attestations from beyond BVW which undoubtedly need to be read differently. The noun always has a genitive case ending despite being the object of the verb $ep\bar{e}su$ 'to do'. This suggests that $ras\bar{\imath}nu$ is a foreign word. A translation 'to sponge down (a horse)'

^{5.} A similar meaning "Holzbalken" was previously suggested by Deller 1987, 249.

^{6.} See also Starke 1995, 90–92; Rauwler 2006, 67a, 72 n85. Usually *uašanna* is translated as track, going back to Indic *vāzhana- 'driving (course).' It only occurs in the *Kikkuli* text, Kloekhorst 2008, 981–82 (with further references).

^{7.} For instance, *ra-si-ni*^{sic.}> RA-*si* Ì BAM 3 240:61' (Scurlock 2014, 612).

for the idiom *rasīni epēšu* is offered in CAD E, 216b. While it is important to add this new attestation, its identical context does not allow for a better understanding.

- r. 6'-7') Reconstructed in analogy with *BVW* A:5, I:10. The verbal form *tuṣarraḥ* in 1 7' (*tuṣa-raḥ BVW* A:5, G:12, H:4, I r. 2, O r. 6, S:7, r. 5) is derived from the verb *ṣarāḥu* 'D: to keep warm' CAD S, 99a. We may compare this reading with the hapax noun *taṣraḥu*, an 'occupation of warming horses' in EA 143:27 (AHw, 1337; Moran 1992, 229–30 n5).⁸
- r. 7') The noun $su'\bar{a}lu$ 'cough, phlegm' can also be reconstructed on $BVW \to r$. 6. This reading is incompatible with Ebelings original edition: ⁶⁾ [qa-l]i-a-te ma-la su-'a-? (read -l[i]) ⁷⁾ [tu-ra-da-su-nu e-ku-lu] '[Rö]stkorn, soviel wie ... [wirst du ihnen hinzufügen, sie werden fressen]' (Ebeling 1951, 19–20). It remains unclear what else can be reconstructed in l. 7 as there are no comparable phrases preserved on the other fragments. Phlegm ($su'\bar{a}lu$) is in fact usually regarded as (a symptom) of disease or associated with its curing (AHw, 1052-53; CAD S, 340; on the verb $sal\bar{a}'u$ see Stol 2009, 29). In fact, in a contemporary Middle Babylonian letter (PBS 1/2 72) of the physician Šumu-libši, coughing up phlegm was the result of having medically treated the cough itself ($gan\bar{a}hu$), using potions (Sibbing Plantholt 2014, 179a). The verb g-f-r 'to reproach, rebuke' (del Olmo Lete Sanmartín 2015, 287) used in the Ugaritic hippiatric text (ygfr 1. 2), has in the past been translated as 'coughing' (Pardee 1985, 42–46), though explained as 'roaring' (Cohen 1996, 113–14). Regardless, both 'coughing' and 'roaring' can be regarded as sounds made with the throat, indicate of breathing issues. While the Ugaritic texts continues with a description of a remedy, this does not seem to be the case in the Middle Assyrian hippology text.
 - r. 8') Reconstructed in analogy with BVW A:6.

Bibliographical references

Aro, J.

"Review of Ebeling 1951", *Bibliotheca Orientalis* 12, 132.

Cohen, C. – Sivan, D.

1983 The Ugaritic Hippiatric Texts: A Critical Edition, American Oriental Series 8, New Haven.

Cohen, C.

"The Ugaritic Hippiatric Texts. Revised Composite Text, Translation and Commentary", *Ugarit-Forschungen* 28, 105–53.

Deller, K.

1965 "Review of Salonen (1961): Die Türen des alten Mesopotamien", *Orientalistische Literaturzeitung* 60, 248–50.

Ebeling, E.

1948, 1949, 1950"Mittelassyrische Rezepte zur Bereitung von wohlriechenden Salben", *Orientalia* 17, 129–45, 299–313, *Orientalia* 18, 404–18, *Orientalia* 19, 265–78.

Ebeling, E.

1983 Bruchstücke einer mittelassyrischen Vorschriftensammlung für die Akklimatisierung und Trainierung von Wagenpferden, Deutsche Akademie der Wissenschaften zu Berlin Institut für Orientforschung: Veröffentlichung 7, Berlin.

^{8.} Another attestation of this noun is perhaps found in the following passage: ANŠE.KUR.RA ša us-¬bu¬-ni ¬Ki-pá-ia ù ¹útu-uṣ-ra-ḥu-šu [text breaks off] 'the horse(s) that stay (here), Kipaya and his tuṣraḥu-man' BM 103203:4–6 (Freydank 2016, 96). This is an unusual Middle Assyrian letter, written in Nuzi-style (edition in Fincke 2014, 23–27).

Fincke, J.

2014 "Three Nuzi Texts from the British Museum and a Middle Assyrian Letter from the Aftermath of the Conquest of the Kingdom of Arraphe", *Altorientalische Forschungen* 41, 15–29.

Freydank, H.

2010 "Anmerkungen zu mittelassyrischen Texten. 6", *Orientalistische Literaturzeitung* 105, 663–70.

2016 "Anmerkungen zu mittelassyrischen Texten. 10", Studia Mesopotamica 3, 95–108.

Grayson, K.

"Antiquities from Ashur: A Brief Description of Their Fate with Special Reference to the Royal Inscriptions", *Annual Review of the Royal Inscriptions of Mesopotamia Project* 1, 15–18

Jakob, S.

2003 Mittelassyrische Verwaltung und Sozialstruktur, Cuneiform Monographs 29, Leiden – Boston.

2009 Die mittelassyrischen Texte aus Tell Chuera in Nordost-Syrien mit einem Beitrag von Daniela I. Janisch-Jakob, Vorderasiatische Forschungen der Max Freiherr von Oppenheim Stiftung 2, Wiesbaden.

Kammenhuber, A.

1961 Hippologia Hethitica, Wiesbaden.

Kloekhorst, A.

2008 Etymological Dictionary of the Hittite Inherited Lexicon, Leiden Indo-European Etymological Dictionary Series 5, Leiden – Boston.

Kouwenberg, N. J. C.

2008 Gemination in the Akkadian Verb, Studia Semitica Neerlandica 33, Groningen.

Livingstone, A.

1989 Court Poetry and Literary Miscellanea, State Archives of Assyria 3, Helsinki.

Loretz, O.

2011 Hippologia Ugaritica. Das Pferd in Kultur, Wirtschaft, Kriegführung und Hippiatrie Ugarits. Pferd, Esel und Kamel in biblischen Texten, Alter Orient und Altes Testament 386, Münster.

Moran, W.

1992 The Amarna Letters. London.

del Omlo Lete, G. -Sanmartín, J.

2015 A Dictionary of the Ugaritic Language in the Alphabetic Tradition, Third Revised Edition, Handbook of Oriental Studies 112, Leiden – Boston.

Pardee, D.

1985 Les textes hippiatriques, Ras Shamra-Ougarit II, Paris.

Parpola, S.

1987 The Correspondence of Sargon II, Part 1, State Archives of Assyria 1, Helsinki.

Pedersén, O.

1985 Archives and Libraries in the City of Assur. A Survey of the Material from the German Excavations, Part I, Studia Semitica Upsaliensia 6, Uppsala.

1986 Archives and Libraries in the City of Assur. A Survey of the Material from the German Excavations, Part II, Studia Semitica Upsaliensia 6, Uppsala.

Sibbing Plantholt, I.

"A New Look at the Kassite Medical Letters, and an Edition of Sumu-libši Letter N 969", Zeitschrift für Assyriologie und Vorderasiatische Archäologie 104, 171–81.

Postgate, J. N.

2000 "Assyrian felt", in P. Negri Scafa – P. Gentili (eds.), *Donum Natalicium: Studi in onore di Claudio Saporetti in occasione del suo 60° compleanno*, Roma, 13–17.

"Wool, Hair and Textiles in Assyria", in C. Breniquet – C. Michel (eds.), Wool Economy in the Ancient Near East and the Aegean: From the Beginnings of Sheep Husbandry to Institutional Textile Industry, Ancient Textiles 17, Oxford – Philadelphia, 401–427.

Rauwler, P.

"The Kikkuli Text (CTH 284). Some Interdisciplinary Remarks on Hittite Training Texts for Chariot Horses in the Second Half of the 2nd Millennium B.C.", in A. Gardeisen (ed.), Les Équidés dans le monde méditerranéen antique. Actes du colloque organisé par l'École française d'Athènes, le Centre Camille Jullian, et l'UMR 5140 du CNRS, Athènes, 26-28 Novembre 2003, Lattes, 61–75.

Richter, T.

2012 Bibliographisches Glossar des Hurritischen, Wiesbaden.

Vorarbeiten zu einem hurritischen Namenbuch. Erster Teil: Personennamen altbabylonischer Überlieferung vom Mittleren Euphrat und aus dem nördlichen Mesopotamien, Wiesbaden.

de Ridder, J. J.

2018 *Descriptive Middle Assyrian Grammar*, Leipziger Altorientalische Studien 8, Wiesbaden. Saporetti, C.

1970 Onomastica Medio-Assira, Volume II: Studi, Vocabolari ed Elenchi, Studia Pohl 6, Rome.

Scurlock, J.

2014 Sourcebook for Ancient Mesopotamia Medicine, Writings from the Ancient World, Society of Biblical Literature 36, Atlanta.

Starke, F.

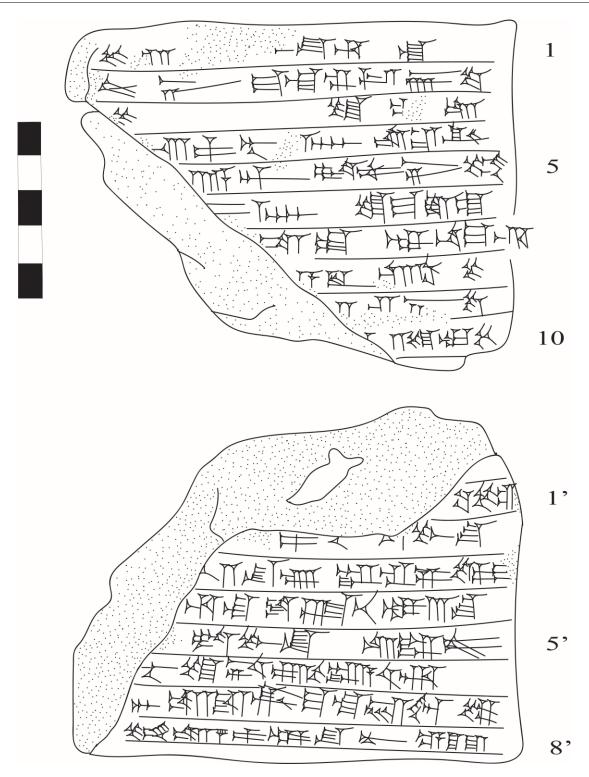
1995 Ausbildung und Training von Streitwagenpferden. Eine hippologisch orientierte Interpretation des Kikkuli-Textes, Studien zu den Bogazköy-Texten 41, Wiesbaden.

Stol, M.

2009 ""To be ill" in Akkadian: The Verb *Salā'u* and the Substantive *Sili'tu*", in A. Attia – G. Buisson (eds.), *Advances in Mesopotamian Medicine from Hammurabi to Hippocrates*, Cuneiform Monographs 37, Leiden – Boston, 29–46.

Streck, M. P.

2017 "The Terminology for Times of the Day in Akkadian", in: Y. Heffron et al. (eds.), At the Dawn of History Ancient Near Eastern Studies in Honour of J. N. Postgate, Volume 1, Winona Lake, 583–609.



Aula Orientalis 39/2 (2021) 293-300 (ISSN: 0212-5730)