JAAN PUHVEL

SOME HITTITE ETYMOLOGIES

The meaning 'urine' for *šehur* was determined by Sturtevant in 1936.1 denotes a liquid (KUB IX 28 III 17 šēļur laļuwān 'urine [is] poured') occurring in combination with šakkar 'excrement', as in KUB VII 5 I 8-9 nu-wa kāš tantukešnaš DUMU-aš šaknaš šehunaš² 'this (impotent) individual (was capable only) of feces (and) urine' (as opposed to seminal emission). The same juxtaposition occurs derivationally in KBo X 37 II 24-25 arriš-(š)met [...] šēļuganiyauwanza šakki (their (?) anus dirty with urine (and) excrement', besides ibid. III 48-49 aiš-(š)mil . . . arrišš-a šēhuganiyauwanza 'their mouth . . . and anus dirty with urine'.3 The nom.-acc. sg. neuter šehur also underlies the denominative verb šehuriya- 'urinate' in KUB XXXI 71 III 10-11 šarā-ya-mu-kan UL kuiški šēhuriyat 'and no one pissed on me' (vs. šakniya- 'defecate' from šakkar). KUB XXXV 132 III 7 šēļuni anku paizzi can thus be routinely translated '(so-and-so) must absolutely go to urinate' (literally 'go for urine'). Yet a further collocational occurrence, that of šehur and kam(m)arš-'defecate', points to something other than a clear-cut binary and complementary distribution of meanings. In IBoT I 36 I 33-47 provision is made for a royal bodyguard's "nature calls": (33-34) mān-an-za-kan šēhunanza-pal4 tamāšzi 'if urination is pressing on him', word of the emergency is passed down the line and up the chain of command, until the commandant approves the trip to the pissoir (pugkalti-, with 'vessel' determinative). (43) mānza-kan gamaršuwanza-ma kuin tamašzi 'but if defecation is pressing on someone', the same routine is described in abbreviated form (araš ari lezzi 'one says to the other'), yet the word reaches the commandant in the form (44) šēhuna-war-aš paizzi 'he goes to šehur', rather than as previously (41) puckaltiya-war-aš kaltan paizzi 'he goes down to the kalli'. Once the commandant gives the go-ahead, the bodyguard who

(2) Spelled $\check{s}i$ -e-, vs. the usual $\check{s}e$ -(e-).

⁽¹⁾ E. H. Sturtevant, Language 12 (1936), 182.

⁽³⁾ Presumably a compound, šehu(r)- or the oblique case stem šehu(n)-, +ganiya-, a submerged verbal stem from a root denoting 'daub, smear' (cf. Gk. κόνις, κονία 'dust, ashes', Lat. cinis 'ashes'), with deverbative -want- as in e.g. kartimmiyawant- 'angered'. šakki[ganiyauwanza might show the alternative compositional survival of a stem šakki- besides šakkar, as in Homeric χῦδι-άνειρα besides *χῦδαρ (χῦδάνω, χῦδρός), or (under 'Caland's law') ἀργι-κέραυνος besides Vedic rirá-.

⁽⁴⁾ Animate -nt- derivative *šeḥun-ant*- as subject of a transitive verb; cf. E. Laroche, BSL 57 (1962), 29.

(45) šehuna paizzi is also checked out by His Majesty, (46) nu-ššan šēhunašš-a ultar INA É.GAL-LIM ari 'and word of šehur also gets to the palace'. Apparently šehur is here not merely 'urine' or 'urination' but can also (unlike šakkar and kam[m]arš-) serve as a more comprehensive term for the emptying of bladder and bowel, thus 'evacuation of body wastes' in general. Hence the authorization to go to the comfort station is a more serious matter in the second instance and has to be cleared all the way to the top.

Thus, while KBo XXI 20 I 25 UKÙ-aš šehur denotes 'human urine', KUB XXII 33 Vs. 9 Ámušen-ma ... šēhur tarnaš means simply 'the eagle let fall droppings' (since birds have no urine). Finally, KBo X 45 IV 37-38 yields a meaning which is incompatible with bodily wastes or emissions of any kind and points rather to 'muck, crud': karizz-a-kan GIM-an URU-az šēhur IM-an ārri 'as the deluge washes crud (and) mud off the city' (IM = wilan- or purul- 'clay, mud').

The last-mentioned sense is very probably the primary one, rather than city dirt being called 'urine'. Hence all the etymologizing starting from a base-meaning 'urine' has been semantically flawed. The connection of sehur with IE *se(y)-'throw, sow' from Sturtevant to Carruba6 is also formally implausible because the Hittite reflex of $\star s\bar{e}(y)$ - is $\check{s}ai$ - 'press, shoot'. Furthermore, the postulation of any etymology with Indo-European *s- is rendered problematic by the gloss-wedged Luwoid neuter noun du-ú-úr 'urine' in KUB XIII 4 III 67-68 apedani-ma DINGIR. MEŠ zakkar "dūr adanna akuwanna pianzi 'to him the gods will give excrement (and) urine to eat (and) drink'. The meaning 'urine' is of course secure in asyndeton combination with zakkar (= šakkar), just as in šaknaš šehunaš quoted above, and is further reinforced by the distribution of the appropriate verbs. We thus have Hittite šehur vs. Luwoid du-ú-úr, and attempts to explain the Luwian phonetics as secondary $(t/d < *s)^7$ do not convince.

A first glimmer of an alternative approach to šehur was provided in very confused fashion by Carruba (loc. cit. in fn. 6) who, while certain of Sturtevant's explanation, also mentioned the verb šah- (allegedly 'verunreinigen')8 as being possibly related to šehur. The idea was followed up by Eichner⁹ who assumed that šehur is in origin a verbal noun from the root seen in šah. In order to test this possibility, the verb šah- must be subjected to searching examination.

šah- is to be distinguished from šanh- (3 sg. pres. act. šanahzi, šanhazi) 'seek, go after, assail, look for, search for, strive for, plan' (appan šanh 'care for, care about', [anda] šanh- 'exact, avenge'), especially its alternative forms spelled šah(h)-: KBo V 9 I 19-20 [n]u tuk ... EGIR-an šahhun 'I have cared for you', besides ibid. 14 šanahhun; KUB VII 8 II 17 tuk EGIR-an šahta 'he has sought after you', as ibid. 16; KUB XVII 10 I 24-26 īl-war-ašta pargamuš HUR.SAG.AŠ.AŠ.HI.A šāh hāriyuš-kan hallu-[wam]uš šāh 'go, search the high mountains, search the deep valleys!', besides šanha (e.g. ibid. 31), šanah (KUB XXXIII 2 I 16), anda šanhi 'avenge!' (KBo XI 1 Vs. 38). The etymological connection of šanh- is equally clear: Skt. sanóti (sánitar-, sātá-) 'gain, procure', Gk. ἀνόω 'effect, achieve, reach', Old High German sinnan 'strive for' Old English sinnan 'care for'. 10

A second verb šanh-, šah(h)-, allegedly 'sweep', has sometimes been considered a semantic offshoot of 'seek', "1 while others have taken it as a separate homonym."

Yet this *sanh- does not properly mean 'sweep' (which is *war*s[iya]- cognate with Latin verro, or more mildly *an[a]*s- 'wipe'). It denotes a wet procedure distinct from *arra-verro, or more mildly *an[a]*s- 'wipe'). 'wash, rinse' (related etymologically to Toch. A yär- 'bathe'), war(a)p- 'bathe, scrub' (cf. OE sweorfan 'scrub'), hurnai- 'spray' (cf. Gk. ῥαίνω 'sprinkle'), papparš- 'sprinkle' (cf. Toch. AB pärs- 'sprinkle'), and lattarai- 'scour, scrub' (cf. Gk. τείρω 'rub'). I would propose something like 'flush (down), wash down, rinse'; the following selection of attestations seems representative for semantic purposes:

KUB XXVII 29 I 9 n-an SAL ŠU. GI šanzi (</šanhzi/) 'the old woman washes him down'.

KUB XVI 17 III 10-12 namma IŠTU[...] SAL-TUM šanhanzi nu-šši-kan[...] lāḥūwanzi 'then they flush the woman with ... and pour ... over her'.

KBo V 1 IV 31-33 mahhan-ma lukkatta n-ašta DUMU šanhanzi ^{GIŠ}PA-ahhiša-ya-šši šarā walhanzi 'but when it dawns, they they rinse the child and beat on it with sticks'.

KUB XXXVIII 32 Vs. 9-10 É.MEŠ DINGIR.MEŠ-kan šanhanzi hurnanzi DINGIR-LUM war [panzi '(they) flush (and) spray the temples (and) bathe the deity'.

KUB IX 15 III 5-7 nu-kan É DINGIR-LIM parā šanhanzi daganzipuš tattarānzi nu É DINGIR-LIM andurza arahza hurniyanzi 'they flush out the temple, scrub the floors, and spray the temple inside (and) outside'.

KUB XLVI 39 III 7 šanhanzi parkunuwanzi 'they flush (and) cleanse'.

KUB VII 49, 2-3 n-]ašta šanhanzi [n]-ašta SAḤAR.ḤI.A-uš parā išhūwānzi 'then they flush, then they shed forth the dirt'.

KBo XV 33 II 22-23 n-]ašta šanhanzi nu kiššaraš wālar ped[a]nzi 'then they flush, and bring hand-water'.

KBo XIX 128 V 32-33 LÚ.MEŠÚJ. HÚB š]anhanzi wātar papparš[a]nz[i 'the deaf men flush (and) sprinkle water'.

KUB XXVII 29 I 18 n-ašla šanhanzi papparšanzi-ya 'then they flush and sprinkle'.

⁽⁵⁾ The list of comparisons is almost too lengthy for convenient summary: Old Church Slavic syrŭ 'moist', Old Norse sūrr 'sour', saurr 'sperm', Lat. sēmen 'seed, sperm', IE *sē(y)-'throw, sow' (Sturtevant, op. cit. in fn. 1, 182-185); OCS sicati 'urinate', Skt. sic- 'sprinkle', Old High German sīgan 'drip', sīhan 'filter' (W. Petersen, JAOS 59 [1939], 187; cf. also OHG seihhen 'urinate', Lat. siat 'urinates'); Lithuanian séile 'spittle', IE *sey- 'drip' (B. Čop, Linguistica 7 [1965], 100-102); Gk. Sei, Tocharian B su- 'rain' (W. Winter in Evidence for Laryngeals [1965], 194-197), thus IE *sew-(H-) which may also lurk in OCS syrŭ (etc.), but with "laryngeal metathesis" in šehur (<*sewHr; M. Mayrhofer, Die Sprache 10 [1964], 183); *šehur* reflects a partial conflation of IE * $s\bar{e}(y)$ - 'throw, sow' with IE *sey- 'drip' and * $s\bar{e}(y)$ -'strain, filter' (Gk. ἡθέω, Lith. sijóju; H. Kronasser, Etymologie der hethitischen Sprache 1 [Wiesbaden 1966], 286). Cf. also F. O. Lindeman, Einführung in die Laryngaltheorie (Berlin 1970)

⁽⁶⁾ Carruba, Das Beschwörungsritual für die Göttin Wišurijanza (StBoT 2, 1966), 52.

⁽⁷⁾ Cop, loc. cit. in fn. 5, who also assumed Hittite -h- to be secondary, thus reconstructing IE *séu-ur.

⁽⁸⁾ For "hier.-heth. šah-" read "hier(her) heth. šah-"?

⁽⁹⁾ H. Eichner, MSS 31 (1973), 69-70, who inconvincingly also connected Luwian šahha-'dirt' (for which see under šakkar below).

⁽¹⁰⁾ Cf. T. L. Eichman, KZ 87 (1973), 269-271.

⁽¹¹⁾ E.g. H. Ehelolf, Kleinas. Forsch. 1 (1930), 146-150.

⁽¹²⁾ Thus Kronasser, op. cit. in fn. 5, 423.

SOME HITTITE ETYMOLOGIES

KUB XIII 4 I 19-20 n-al-kan šanhan hurnuwan ēšdu 'let it be flushed (and) sprayed' (similarly ibid. III 60).

KUB XXIX 1 III 39-40 DINGIR.MEŠ-wa GUNNI dāir nu-war-an [ku]nnanit hūrayir n-an AN.BAR-it šan[aḥh]ir 'the gods have placed the altar, they have "sprayed" it with copper (?), they have "flushed" it with iron'. 13

There are two occurrences of the variant form šah(h)-, both connected with the 'rinsing away' of illness:

KUB XXIX 1 I 46-48 [t]akku ilaš kardi-šmi naššu-ma "UTU-waš ištarningaiš kardi-šmi n-at-kan šarā šāḥten 'if weakness (is) in your heart, or the ailment of the sun (is) in your heart, flush it out!'.

KUB XII 58 III 2-4 kāša-kan NÍ.TE hūmanda šahhiškimi nu-šši-kan katta kišān ēšdu idalu papratar 'lo, I am flushing all (his) limbs; from him let evil uncleanness be combed down'. ¹⁴

Once the true meaning of this verb has been established, the etymology falls into place: $\check{s}anh$ - is to IE $\check{s}n\bar{a}$ - what e.g. tarh- is to IE $\check{t}r\bar{a}$ -, or pahh- is to Lat. pha- is to Goth. ha- in ha- is to Goth. ha- in ha-

The verb šaḥ- (3 sg. pres. act. šāḥi) was rendered by Laroche¹⁵ as 'corrompre, gâter, barbouiller, salir'; Friedrich¹⁶ turned that into 'verunreinigen, besudeln, schmieren'; he was followed by Kronasser¹⁷ and still by Eichner in 1973.¹⁸ A more cogent translation 'block, clog, stuff' was given by Güterbock¹⁹ in 1964 and adopted by Berman.²⁰ I would gloss šaḥ- by 'clog (with dirt), plug, stop up; stuff, cram, jam' and give the following renderings:

KUB XIII 2 II 22-23 kuiša-kan welenaza šaḥāri n-an-kan šarā šanḥandu 'whate-ver (sewer) is clogged with (waste) water, let them flush it out'.

Ibid. 2-4 namma-kan URU-ri [arlaḥḥiuš] le šaḥiškantari²¹ n-aš-kan MU-li. KAM-li šarā šanḥiškandu 'also in the town let the sewers not be clogged; let them flush them out annually'.

KBo XI I Vs. 40 našma-kan šuppa TÚL kuiški šahta 'if someone has clogged a holy well'.

KBo XVII 61 Vs. 12-13 nu-mu mān TUR-an parā pianzi [... n]-an-kan KA×U-

(13) Apparent technical terms of metal-working, assuming that hūrayir is related to hurnai-.

(15) RHA 9 (1948-9), 16.

(19) H. Güterbock, JAOS 84 (1964), 272.

(20) H. Berman, *ibid.* 92 (1972), 467: 'stop up'. Eichner also caught up in *Die Sprache* 21 (1975), 157-160: 'hineinstopfen, aufpressen, einstampfen'.

ŠU šahmi 'when they hand the baby to me ... I plug his mouth' (viz. if he turns out to be [ibid. 14] UL-ma huišwannaš 'not viable'); šahmi also ibid. 15.

KBo III 8 II 29-30 EM]E-ŠU šahdu nu sathāšauwaš p[ait nu-šši] EME-ŠU šahta 'let her plug his tongue; and the old woman went and plugged his tongue'.

KUB I 13 III 11 É $^{\text{t\'e}}$ IŠ-m]a and a šahān 'the stable (is) plugged shut'; ibid. 22 and a šah[an]zi.

KUB IX 28 I 14 pūriyaš-šaš wēlkuwan šāḥan 'grass (is) stuffed into its lips'.

KUB XXXIX 88 I $10^{-{\rm sig}}k$]išrin anda šābi '(he) crams in(to a potstand) a skein of wool'.

KBo X 47c, 14-17 (with duplicate KUB VIII 56, 1-4) "akku[šša] tarneškizzi "En[kiduš-ma-šši piran] iyattari nu k[an ŠAḤAR.ḤI.A-az] šaḥiškizzi "(Sangasu) keeps sinking pits, (but) Enkidu will go abead of him and stuff²²² (them) with dirt'.

We now also have the clue to the root-meaning of the neuter noun šaheššar 'stronghold, fortress' (KUB XXXVI 110 Rs. 8-9 nu] Labarnaš LUGAL URU Ḥatti šaheššar-šummet ēštu 'may Labarnas the king of Hatti be your fortress'); the semantic development would be from a verbal noun 'stopping up, jamming' > 'shut area' > 'stronghold'. BÀD-eššar may stand for either a deverbative šaheššar or a denominative abstract noun kutleššar ('walling', from kutt- 'wall'; cf. Gk. χυτή γαῖα 'earth-heap').²³ The denominative verb šahešnai- (BÀD-ešnai-) means 'make into a stronghold, fortify', with iterative šahešnaeški[(670/v, 5) or šahešneški (KUB XXIII 1 l.R. 1 n-an-za-aš šahešneški PAP-nuški 'keep fortifying [and] defending it'!); its derivation pattern matches that of e.g. (arha) happešnai- 'dismember' from happeššar 'limb'.²⁴

šah- is a -hi conjugation verb, unique in its stem-final h which is consistently spelled single between vowels, thus pointing to a voiced laryngeal under "Sturtevant's law". The a-vocalism represents the o-grade of the Indo-European perfect stem. The e-grade can be postulated in a verbal noun šehur (with suffix as in e.g. aniur besides aniyauwar from an[n]iya-), with a semantic development 'clog(ging)' > 'crud' > 'body wastes' > 'urine'. For the meaning shift we may compare e.g. Latin > English f(a)eces, originally 'dregs, impurities'. šehur intimates that 1 sg. pres. act. šahmi may be a cross between *šehmi (cf. e.g. wehzi) and *šah-hi (the latter with a collision of e- and a- coloring laryngeals).

An Indo-European root etymology *seA- or *saH-25 lacks plausibility, being based on the superseded meaning 'dirty, befoul'. Keeping in mind Hitt. šeħur: Luwoid du- \acute{u} - \acute{u} r, we can essay a parallel to such pairs as Hitt. šiwalt- 'day': Luwian tiwat- 'sun' (<IE *dyew-) or Hitt. šakui-: Luwian da-a-u-i-iš 'eye' (<IE *dyagh*i-).26

⁽¹⁴⁾ Cf. ibid. I 13-14 nu edani antuhši ... IŠTU uzu ÚR. HI. A-ŠU idalu papratar arha mulāi 'from the limbs of this man flush off evil uncleanness!' (unlike šanh-, mulai- has reference to the magical application of cathartic mud or urine rather than clean liquids; there is also the neuter noun mūdan 'flushing, rinsed dirt, refuse, offal' as food for dogs and pigs in KBo X 37 II 16). Cf. J. Puhvel, AJPh 97 (1976), 166.

⁽¹⁶⁾ J. Friedrich, Heth. Wb., 175.

⁽¹⁷⁾ Op. cit. in fn. 5, 423-424, 549.

⁽¹⁸⁾ Loc. cit. in fn. 9.

⁽²¹⁾ With duplicate KUB XXXI 89 II 19 šāķeškantari and parallel XXXI 86 II 31 šāķiš-kattari (with -tt- <-nt-; or 3 sg.?).

⁽²²⁾ Corresponding to umtalli 'he would keep filling' in the Akkadian $Gilgame\S$ from Ninive.

⁽²³⁾ A. Kammenhuber's rejection of any tie between šaķeššar and šaķ- (MIO 2 [1954], 442; OLZ 54 [1959], 30) was based on the erroneous meaning 'dirty, smear'; but the connection could be defended even then with reference to e.g. Skt. dih- 'smear': Gk. τεῖχος 'wall' (cf. Eichner, op. cit. in fn. 9, 95).

⁽²⁴⁾ Cf. C. Kühne and H. Otten, Der Šaušgamuwa-Vertrag (StBoT 16, 1971), 48.

⁽²⁵⁾ R. Schmitt-Brandt, Die Entwicklung des indogermanischen Vokalsystems (Heidelberg 1967), 102-103.

⁽²⁶⁾ Cf. Puhvel, California Stud. in Class. Ant. 6 (1973), 229; JAOS 94 (1974), 294-295; Incontri linguistici 2 (1975), 129-134.

By this token we can posit a proto-form ${}^*d(h)y\acute{e}E\text{-}wr > \text{Proto-Anatolian} {}^*dyehur > \text{Hitt.}$ /zehur/, whereas Luwian underwent loss of intervocalic h, contraction of hiatic vowels, and monophthongation of the resulting diphthong. The Luwian loss of intervocalic laryngeal may be comparable to that seen in the Luwoid 3 sg. preterit active pawaritta (KUB XIV 20, 11) 'bivouacked', if it means literally 'made fire' (pawariya- < *pahuwariya-; cf. Hitt. pahhu[wa]r 'fire').27

Trying to find extra-Anatolian cognates, we can extrapolate from *dhyéE- to a root dhéy-E- and see it reflected in Latin fimus 'ordure' (<*dhi-mó-), faex 'dregs, sediment, impurities' (*dhoy-k-, with Italic a-coloration as in e.g. salvus besides sollus, or perhaps *dhoyE-s, with "hardening" of the laryngeal into a guttural stop before the s, as in senex <*seneA-s), 28 and foeleō 'be ordurous, stink' (*dhoy-t-ē). The Hittite verb šah-, with a verbal noun šaheššar, then goes back to *dhyoE- with a basic meaning 'clog with dirt, form crud', besides *dhyeE- in *šehmi with its more ancient and subsequently isolated verbal noun *dhyeE-wr > Hitt. šehur. 29 Thus we may be on the traces of a significant Anatolian-Italic lexical isogloss, with the verbal root still in use in Hittite but only scattered derivatives extant in Latin.

In the context of *šehur* reference was made earlier to the marked terms for 'excrement' and 'defecate', *šakkar* and *kam(m)arš*. Some further consideration of their derivational and etymological circumstances is likewise in order.

Nom.-acc. sg. šakkar or zakkar, gen. sg. šaknaš, the denominative verb šakniya-, and the possible compositional stem šakni- were all touched upon above. zakkar occurs not only in asyndetic juxtaposition to the Luwoid dūr 'urine' but also in a vocabulary list (KBo I 45 Vs. 9) matching Akkadian zū 'excrement'. šakkar can have the literal meaning (e.g. KUB XVII 28 I 4-5 nu-kan] hattešni anda ... šakkar dahhi 'in the hole I put excrement' [of animals]; KBo XXI 107 II 9 UTÚL šaknāš tianzi 'they place a bowl of feces'; KBo XXII 2 Vs. 2 tuppuš šakanda³o šunnaš 'she filled containers with excrement'), but also a more abstract sense of 'befoulment, impurity', as in KUB X 60, 1 LÚ.MEŠ GIŠBANŠUR šaknaš 'men of the table of impurity'. On top of šakkar and zakkar, the form zašgar- is attested compositionally in zašgaraiš 'anus', literally 'excrement-mouth' (KBo XVII 61 Rs. 14 zašgaraiš-kan zašgarišši 'anus on anus').³1

Of further derivatives we need to distinguish šaknumar and šaknumant. šaknumar is a neuter abstract noun 'befoulment, feces' (KBo XXI 20 I 17 SAL-aš šaknumar 'a woman's feces'), apparently a derivative from a denominative verb *šakn-nu-'make shitty, befoul', comparable to e.g. ešhar-nu- 'to bloody', aimpa-nu- 'to burden'. šaknuwant-, i.e. /šakn-want-/, is a well attested denominative adjective which can mean literally 'full of feces' (KUB XXXIII 62 III 10-13 šumeš ezzašten nu-za išpitlen ekuttenma nu-za nikten nu-šmaš ŠÀ-KUNU šaknuan ēštu ZI-KUNU-ma-šmaš [waršiy]anza ēštu 'eat and be sated, drink and be filled; may your innards be full of excrement,

and may your spirit be soothed'); but more often it has the sense of 'possessed of impurity, befouled, (ritually) unclean', as in KUB XIII 4 III 80, where someone is šaknuanza because (ibid. 79) warapzi-ma-za nāwi 'he has not yet bathed'; it is often antonymous to parkui- or šuppi- 'clean'.

Luwian šahha- 'dirt, filth' (acc. pl. in Hittite context 509/d, 5 kuiš šahhanza iššāi 'who commits impurities') is an animate noun created by the dropping of final -r, as in wida- 'water' (acc. pl. widanza) vs. Hitt. watar (pl. widār), or happiša- 'limb' vs. Hitt. happeššar; the oblique case stem in -n- is still visible in the denominative verb šah(h)aniya- 'befoul' (KUB XXXV 45 II 21, XXXV 48 II 14) besides Hitt. šakniya-; -hh- < -kk- is comparable to Luwian nahhuwa- 'consider important, take to heart' vs. Hitt. nakkiyahh-.32

šakkar has long been connected with Gk. σκῶρ (gen. σκατός) 'excrement, dung'.³³ The initial spelling variations šakkar, zakkar, zakkar, zakkar point to /(t)skar/.³⁴ Yet oblique cases (šaknaš) and derivational forms (šakn-uwant-, šak[n]-numar, šakn-iya-) require rather /sakn-/ and thus a proto-form *sókr (like e.g. *nómr > Hitt. lammar, oblique stem lamn-).³⁵ Possibly the two interpretations are not mutually exclusive, with šakkar representing *sókr and zakkar, zašgar- being attempts at expressing an allomorphic *(t)skór, perhaps with some divergent nuance such as a "collective". In any event šakkar is an old radical heteroclitic noun which shows either šakki-or zašgar- as its compositional form, whereas the deverbative abstract noun šehur appears as either šehu(r)- or šehu(n)- (see fn. 3).

kam(m)arš- was definitely determined as 'defecate' by Güterbock.³⁶ The attestations, in addition to the already mentioned gamaršuwant- 'defecation', are not numerous and include no finite form of the basic Hittite verb:

KUB XXXI 100 Rs. 8-10 nu k]amaršuwaš uddanī mekki naḥḫ[anteš ēšten] [nam]ma-kan "R"Hattuši šer ḥaššuš le [...] [n-]ašta [haš]šuš kalta šaltai huššili-pat [...] 'in the matter of defecation be very concerned; furthermore up in Hattusas the king shall not ..., rather the king ... down to the great (= royal) latrine'.

KUB XVIII 41 Rs. 8 kamaršieškanzi.

KUB XVII 27 III 12-15 n-al-kan ANŠU-aš ešharreškiddu [n-al-]kan GUD-uš kammaršieškiddu DUMU.LÚ.ULÙ.LU-ma-šan [kuiš] šer arha iyatlari nu-uš-šan šer [all]appahhiškiddu 'let the ass bloody them, let the ox shit (upon) them, let the man who walks over them spit upon them!'.

There is also the hapax attestation of a Luwoid *kalmaršilli* in line 6 of KUB XXX 31 I 1-8:

kuitman-kan pUTU-uš nawi ūpzi nu LUGAL SAL.LUGAL uruḤattuši šakniyanzi n-at-za arḥayan ešandari maḥḥan-ma-kan pUTU-uš ūpzi ape-ma INA uruKizzuwatna INA É pIM éšinapšiya katmaršitti maḥḥan-ma-kan ANA UD-MI 2 1/2 kipeššar

⁽²⁷⁾ Cf. e.g. Luwian er(hu)wa-, manna(hu)wanni-, and see N. Oettinger, MSS 34 (1976), 102-103. KUB XIV 20, 13 (two lines later) mentions the army's (camp)fire (pahhur).

⁽²⁸⁾ Cf. e.g. Lindeman, op. cit. in fn. 5, 85-86.

⁽²⁹⁾ Armenian šer 'urine' is conceivably a loanword from Hittite.

⁽³⁰⁾ This Old Hittite instr. sg., for more expectable *šaknit, with intervocalic -k- rather than the normal -kk-, probably represents /šaknda/. Cf. also Otten, Eine althethitische Erzählung um die Stadt Zalpa (StBoT 17, 1973), 17-18.

⁽³¹⁾ Cf. Berman, op. cit. in fn. 20, 468; Puhvel, ibid. 95 (1975), 263-264.

⁽³²⁾ See Laroche, Dictionnaire de la langue louvite (1959), 135; pace Eichner, loc. cit. in fn. 9.

⁽³³⁾ Cf. E. Benveniste, Origines de la formation des noms en indo-européen (1935), 9; Sturtevant, op. cit. in fn. 1, 183.

⁽³⁴⁾ Cf. Benveniste, BSL 50 (1954), 35-36; Berman, loc. cit. in fn. 31.

⁽³⁵⁾ Cf. H. Frisk, Indogermanica (1938), 25-26; J. Schindler, BSL 70 (1975), 5.

⁽³⁶⁾ Oriens 10 (1957), 353. Kronasser, op. cit. in fn. 5, 403, still managed to hedge unhelpfully and incline towards 'urinate'.

5 wakšur paizzi nu-za LUGAL SAL.LUGAL warpanzi namma apedani UD-ti UL kuitki ienzi 'while the sun is not yet up, king (and) queen make excrement in Hattusas, and they seat themselves apart; but when the sun goes up, they defecate in Kizzuwatna in the šinapši of the temple of the storm-god; but when of the day (something like half an hour) goes by, king (and) queen bathe and on that day do not do anything more'.

Of doubtful appurtenance is kammarašniya- with 3 sg. pret. midd.]kammarašniyattat (1041/c IV 2; cf. ibid. 1 ešhantet 'blood'; thus 'befoul, stain'?) and 3 pl. pret. midd. kamm]arašniyanlat (KUB XXXIV 63, 9; similarly ibid. 10).37

kalmaršitti is perhaps a Luwian 3 pl. pres. act. *katmaršinti for *katmaršiyanti, rather than a contextually and syntactically erroneous 3 sg. of the type kalutitti. It may be that kam(m)arš- in Hittite is the Luwian-borrowed term for 'defecate', vs. Hittite proper šakniya-; typically, with their ritualized bowel habits, the royal couple šakniyanzi in "Hattusas" but katmaršitti in "Kizzuwatna", i.e. in Luwian context, in what may be a symbolic microcosmic circuit of the "stations" of the empire.

⁽³⁷⁾ Cf. E. Neu, Interpretation der hethitischen mediopassiven Verbalformen (StBoT 5, 1968), 79.

⁽³⁸⁾ Attempts to etymologize such a kalmarš- have been pitiful: Čop $(op.\ cit.$ in fn. 5, 104-105) postulated a prefix *ka- and a verbal root akin to Gothic $smarn\bar{o}s$, Lat. merda 'excrement', unacceptably assuming Luwian t/d < *s. II. Wittmann's comparison ($Die\ Sprache\ 19$ [1973], 39) of kamarš- (as *kam + arš- 'let clods flow') with Russian kom 'ball, lump' displayed no awareness of the form kalmarš-.