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The Gynaecological Papyrus Kahun

Helena Trindade Lopes and Ronaldo G. Gurgel Pereira

Abstract

The Papyrus Kahun is oldest known Egyptian medical document addressing issues of midwifery, dating back to the second Millennium BC. Here it follows a study of the papyrus, featuring hieroglyphic text and its transliteration and translation versions. This work also features commentaries regarding the papyrus' medical substances and some linguistic evidences on the intimacy between spiritual and physical spheres in the Egyptian therapeutics. After the papyrus text, there is an Egyptian-English glossary.

Keywords: History of Medicine, Papyrology, Kahun, Ancient Egypt, Gynaecology

1. Introduction

The Gynaecological Papyrus Kahun¹, the oldest known medical papyrus, was discovered by W. M. Flinders Petrie in 1889, in a place near the modern city of Lahun, in Fayum [1]². The papyrus was in a very bad state of preservation, therefore it had to be carefully restored, in 1890, by Francis Griffith so he could, finally, be able to make the first hieroglyphic transcription of the hieratic text and its publication³ still in 1898 [2]. Nowadays it is conserved in the Petrie Museum of Egyptian Archaeology, University College London (UC 32057), in London, United Kingdom.

The papyrus Kahun, dated from the kingdom of Amenemhat III, circa 1825 BCE⁴ (Middle Kingdom, dynasty XII), is one of the biggest papyri of that period, with about 1 m long for 32 cm high, and features the oldest known treaty of gynaecology and obstetrics, which addresses issues such as fertility, pregnancy, contraception, and gynaecological diseases.

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¹ The term Kahun was the name given by Petrie to the site of the city of Lahun, which, under the reign of Amenemhat III and his successors, would have been a very prosperous city.

² Nunn, 1996, p. 34.

³ The texts were published in facsimile, with hieroglyphic transcription and translation into English by Griffith. CF. Griffith, F. Ll. (1898). *The Petrie Papyri: Hieratic Papyri from Kahun and Gurob*. London: Bernard Quaritch, p. 5–11 and pl. V-VI.

⁴ A note on the reverse of the gynaecological papyrus is dated to the year 29 of Amenemhat III, *Ibidem*.

The work comprises three pages, is divided into 34 horizontal columns, oriented from the right to the left, that have a common format: begin with a brief report of the symptoms; then, the doctor is advised on how to approach the patient to present his diagnosis and, finally, treatment is suggested. However, no mention is made of the likely prognosis. This process of symptoms, diagnosis, report and treatment described makes up the various sections. Naturally, as in other medical works, Papyrus Kahun refers to an enchantment⁵.

The suggested treatments are diverse and include fumigations, massages, and medications introduced into the body as pessaries or as a liquid to be drunk or rubbed on the skin. Donkey milk and perfumed oils are part of the medical material to be used in these procedures.

The text does not refer to any proposed surgery. The final paragraphs of the text are dedicated to pregnancy, presenting teachings related to conception which include the use of incense, fresh oil, dates, and beer, to contraception, suggesting the use of crocodile manure and also honey and natron and, again, gynaecological treatments.

After the publication of the Papyrus Kahun by Griffith [2] at the end of the XIX century, only in the second half of the XX century, the text is again the subject of study and publication within the scope of the most important investigation of medical papyri coordinated by H. Grapow [4], between 1954 and 1973. A hieroglyphic transcription of the papyrus Kahun is done in volume V and the translation and commentary of the text is presented in Volume IV.

In 1975, J. Stevens [5], presented an English translation of the text, and in 1995, Th. Bardinet, also presented his translation of the papyrus [6] and some comments on the text.

In 2002 Stephen Quirke published his transliteration and translation of the text online [7] and shared that translation again in the work he produces with M. Collier [8] in 2004.

Finally, in 2017, Didier Fournier introduced us to [9], where he performs the hieroglyphic transcription, transliteration, and translation of the papyrus as well as medical comments and lexical, syntactic and semantic considerations to the text. The work also reproduces the text in hieratic from facsimiles proposed by Griffith in 1898.

In addition to the publication and translation of the papyrus, the studies dedicated to the gynecological treatise presented in Papyrus Kahun are also very small. In 1952, C. D. Leake makes the first references in [10]. In 1992, C. Reeves in a small essay [11] also dedicates two pages to it. Four years later, J. F. Nunn in [1] introduces the papyrus and makes some comments on the text. Finally, in 2011, Lesley Smith published the latest article on the gynaecological papyrus Kahun [12]. Other references, in general works, although very reduced, happen in Strouhal, E., Vachala; B., Vymazalová [13], dated from 2014.

⁵ In paragraph 30. The works on medicine in Ancient Egypt refer to the belief in a holistic dimension of life, in which the disease is understood, naturally, as a disturbance of an inner order that is reflected, a posteriori, physically [3]. Hence, the use of magical practices that could help harmonizes the patient.

There are multiple semantic definitions and explanations for cure. Some of them are also based on mythical systems. In fact, this work assumes that cure is a double-folded concept. On one hand, the semantic meaning of cure manages to assert a cultural identity and a gender delimitation: Healthy vs. Diseased; Favoured by the gods vs. Abandoned by the gods, etc.

This approach of the Papyrus focuses on the so-called supernatural elements that, by any means are being mentioned in the therapeutics. We understand the separation between magic and medicine was unknown in Ancient Egypt, as they are the product of modern Egyptology problematization. The Egyptian medicine coordinates natural and supernatural elements in their therapeutics. Thus, we shall investigate the ontological specificities of the ancient Egyptian cure process. From the diagnosis to the therapeutics.



2. Commentaries

2.1 On the papyrus

The papyrus was composed in Hieratic, using a simple and direct language. It was probably compiled from some personal notes or a *vade mecum*.

There are 34 cases, along 3 columns of horizontal text, written from right to the left. Its first column (**Figure 1**) has 33.5 cm of height and starts the gynaecological tractate. This section has 29 short lines of text in good conditions.

The second column (**Figures 1** and **2**) has 38.5 cm of height and presents heavy damage on the central area of the page, between lines 26 and 59. So, only 7 lines out of its original 30 are complete. The second column also presents longer lines of text than the first one.

The third column (**Figure 2**) measures 33 cm of height and is also heavily damaged. Its 28 lines of text are the longest of the tractate. However, only one line is complete, from the beginning to the end. This column is divided into fragments A and B. Fragment B is just a small scrap with 4 incomplete illegible lines. Therefore, this work will deal with column 3 - fragment B only.

Another point of interest concerning column 3 is the transition to a totally different style of heading and organization of the treatments. That suggests column 1 and 2 have the same origin, while column 3 was copied from a different source.

For didactical matters, we decided to revert the text direction when we established the hieroglyphic matrix of this version. We also decided to present the

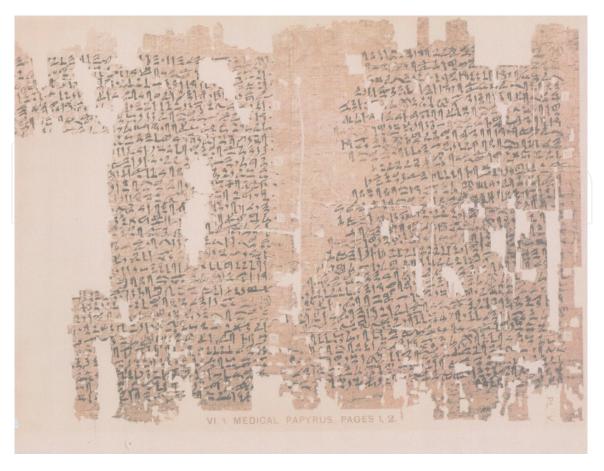


Figure 1.
Plate VI.1 (columns 1-2).

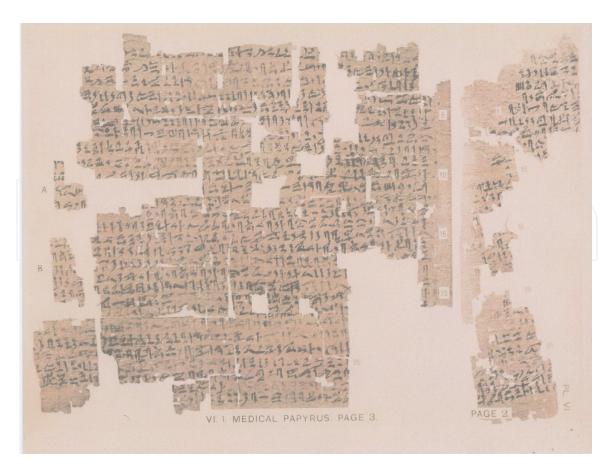


Figure 2. Plate VI.2: (columns 2-3).

source in a format case-by-case for reasons of practicality. The present version of the text was originally built in Portuguese [14], and then, translated into English.

2.2 On the therapeutics

The 34 cases described in the papyrus are normally divided into mini-sections with the support of red ink. First, the disease is described. After making the diagnosis directly to the patient, a treatment is given.

The treatment presents the ingredients and, occasionally, the precise dosage of each element. Interestingly, this papyrus gives preference to generic measures, such as "spoon" or "jar". Then, the method of preparing the ingredients is concluded by the way the medicine must be applied to the patient.

Medicines are always taken orally, inserted into the vagina, or applied on the skin using massages or bandages. Fumigation seems to be the most common therapy, always incorporating various ointments with incense. There is great concern about therapy with the patient's uterus. Virtually all the diseases described are somehow linked to an origin in the uterus, and it is through the uterus that they seek to treat them [15].

The translation of this document took care to compare hieroglyphic versions established by British authors with Griffith's (1898) slides of hieratic text. It is interesting to note that all the translations previously cited reproduce the text in hieratic from facsimiles proposed by Griffith.

Hence, we found that the present version promoted "corrections" in the vocabulary proposed by previous works. The reader will find two diagnoses of incurable diseases (cases V and XIII), that are normally left aside by English translations. There is a short discussion on the spiritual dimension on Egyptian medicine (2.4). Further contributions are the identification of ingredients in the *materia prima* section (2.5), and of the procedure of verifying the patient's arterial pulse mnj3 (cases XXIX and XXXII).

2.3 P.Kahun as an educational text

From its 34 cases, there are 18 occurrences (1–17 & 25) where the papyrus actually can be used as a didactic textbook. In those texts, there is an approach aiming to guide the reader across each step of the therapeutic process. Such texts adopt the sequential s d m d r = f ("then, he should listen") providing the reader with the "what follow next" for each section. It is possible to summarize this pattern as the following:

- A heading to identify each new case (e.g. "A treatment for a woman who suffers A, B, C, etc."). A diagnostic is proposed to the reader. Then, the text concludes the first section with the recommendation: "then you should say to her" and announce the treatment.
- The diagnosis is described via a nominal identification sentence: "Disease-D" pw (this is a disease-D);
- Finally, the papyrus proceeds with the next step with the sayings: "then you must prepare for her" (here translated as "(then,) you should treat her), followed by the prescription of ingredients for each case and the right way of its application.

The didactic structure of this papyrus fits with the features of typology 4a, as proposed by [15], from which the table below is based on (**Table 1**).

I.	Heading	šs3w s.t ḥr mn A, B, C etc.	"Treatment/Experiences on a woman who suffers from A, B, C, etc."
II.	Investigation	not present in typology 4a	
III.	Outcome		
a	introduction	dd.hr = k r = s	"Then/consequently, you should say to her (on this regard)":
b = d	diagnosis = causa	"D" pw	"This is a D-disease!"
с	reasoning	not present in typology 4a	
IV.	Treatment	jrj.hr = k r = s	"Then/consequently, you should do for her (or even: 'then, you should do against it')"

Table 1.
Text structure of typology 4a.

2.4 Regarding incurable diseases and spiritual influences

The Egyptian believed that both physical and the spiritual spheres of being were closely linked. The whole physical existence was understood as part of an eternal struggle between the cosmic forces of chaos and order. Simply put, a disease was nothing more than the physical manifestation of spiritual causes.

That said, a disease that was known to be intractable had its existence ascribed to some harmful spiritual force. These forces had several names, which traditionally Egyptologists translate as "demon", although that word does not have a direct equivalent in the Egyptian language.

In this papyrus we find only two therapies mentioning irreversible conditions. The term used to describe them is "btw" $\lim_{\square} \lim_{\square} \mathbb{I}_{\mathbb{Q}} \mathbb{I}_{\mathbb{Q}}$, that is, a malefactor, according to lemma 10241 in [16]. The determinative $\mathbb{I}_{\mathbb{Q}}(I 14)$ suggests a spiritual origin for that evildoer, meaning "demon".

That hieroglyph also is used as determinative of several minor spiritual powers [17], like – for instance - \$\int\tilde{\text{L}}\text{\text{M}}\text{\text{m}}\text{offin Texts (II, 112e – Spell 105, S1C). However, it must be remarked the word b\text{\text{M}}\text{\text{M}}\text{\text{is also synonymous with "incurable disease".}

Due to a strong tendency to hide or diminish the importance of the spiritual in Egyptian medicine, the anglophone authors consulted translate btw as "worm" [7, 8] and "colic" [2], which is simply impossible, given the importance of the term at the conclusion of those cases.

Another connection between the physical and spiritual spheres in the Egyptian therapeutics is the usage of the verb dr. The word means equally "to expel" (case VIII: residuals from the body), "to drive away" (cases XXVIII and XXXIII: "pain") and is synonym with "to exorcize" (demons and disease demons) in the dictionary, lemna 39117 [16].

Generally speaking [3, 17, 18], a disease whose origin is ascribed to a spiritual origin sometimes can also/only be treated through magic formulas and prayers. Those incantations, or "heka" are normally dedicated to gods or minor spiritual entities, which would also be translated as "demons", but which are not necessarily evil forces. In this document, there is only a single case of enchantment, in the form of a prayer to Horus (case XXX), but the text is too damaged to let one understand exactly the possible usage of that magic formula.

2.5 On the medical *materia prima*⁶

The prescriptions of this papyrus normally combine ingredients of vegetal, animal and mineral origin in their different estates (solid, liquid, etc). Ingredients of mineral origin occur in less variety and those of animal origin are even rarer. There are multiple ways of preparation: fumigation, ingestion, etc.

⁶ The term *materia medica* was first used by Dioscorides in De *Materia Medica* (1st century CE) and used ever since. However, since the Kahun papyrus predates Dioscorides, this work was encouraged to present another term for describing pharmaceutics, standing for the therapeutic features of any material used for treatment.

It is possible to divide the medical *materia prima* in two greater groups, by distinguishing ingredients of anthropic nature (it needs to be manipulated and transformed by man) *versus* ingredients that can be found in its natural milieu [18]. Thus, the Egyptian pharmacopeia is composed by hundreds of products collected and/or transformed from local flora and fauna.

In fact, Egyptian vegetal ingredients are mostly related to endemic specimens, However, out lack of knowledge about the Egyptian vegetal world posits a great obstacle to connect Egyptian names to actual plants. Therefore, traditional works by Egyptologists keep the Egyptian names untranslated [1, 18, 19].

A small lexicon follows, which complements the glossary at the end of this work. Vegetal

- Vitex (*vitex agnus castus*). Case XIII Its leaves, flowers, seeds and roots can be consumed with food or as an elixir. There is clinical evidence that it works to treat premenstrual tension [20].
- White Mullbery (*Morus alba*). Cases X, XII e XVI Its extract has several medicinal properties. Here we highlight its effect with antibacterial, and in the treatment of hyperuricemia [21].
- Onion. Case XXVIII
- Beer. Case VI (to avoid it)
- Sweet beer. Cases XX e XXIV
- Fermented/ardent beer. Case X Normally that term is translated as "djadjat-beer". It is a beer, fermented in some specific way. As the term djadjat is synonymous with "ardent", it can be a particularly strong beer.
- Cowpea (Vigna unguiculata). Case XXXIII
- Ripe figs. Case XVI
- Fruit (any). Cases III e XVII
- Fruit of the Onenu-tree. Case XX Thus far an unidentified tree.
- Fruit of Egyptian balm (*Balanites aegyptiaca*). Case XVI It was necessary to resort to the Hieratic text to propose the replacement of the unknown term \(\)
- Fat/oil/unguent. Cases V e XVI
- Incense. Cases I, V, XX

- Watery porridge. Case VI
- Vegetal mucus of fermented mucilage. Case XIV
- Vegetal mucus of mixed mucilage. Case XIV
- Fermented vegetal mucus. Cases XX, XXI e XXIII
- Pulp of date (for syrups). Case XXIV
- Dregs of sweet beer. Cases XVII e XXVII
- Myrrh resin. Case XII
- Chufa (Cyperus esculentus). Cases III, X, XIII
- Oil/unguent (new). Cases I, IV e XX
- Grapes. Case XVI
- Date syrup. Cases XVII, XX e XXVII

Animal

- Cow milk. Cases III e XV
- Donkey/ass liver (fresh). Case I
- Honey. Case XXII
- Lard/fat of goose's leg. Case I
- Milk. Case XVIII

Mineral

- Donkey/ass urine. Case V
- Fermented beer. Case X
- Malachite powder. Case XV This is a magical ingredient [18]. The mineral was used as a pigment for the green colour. In Egyptian, the same word can be used for naming "vigor", "vitality" and "freshness". Thus, by consuming the green pigment, one also acquired the properties that the magic pun (*rebus*) [24] provided in via "sympatheia".
- Mud. Case VII
- Natron. Case XXIII
- Spring water. Case XXV

Unidentified origin

- Emetic. Case XI (Its ingredients are not described)
- Fresh fat rancid oil. Case XII (It is not clear whether the fat is animal or vegetal).

```
2.6 Index of cases
   COLUMN 1:
   I-Pain in the eyes and throat; vision problems (lines 1–5);
   II – Pain in the uterus (lines 5–8);
   III – Pain in the lower limbs (lines 8–12);
   IV – Abdominal and genital pain (lines 12–15);
   V – Pain in the teeth and neck (lines 15–20);
   VI – Pain in the limbs and eye sockets (lines 20–22);
   VII – Pain in the feet and legs when walking (lines 23–25);
   VIII – Pain in the throat, ears and groin; hearing problems (lines 25–27);
   IX – Pain in the limbs, vulva and entire body (lines 27–29);
   COLUMN 2:
   X – Urinary problems (lines 30–34);
   XI – A woman who cannot get out of her bed (lines 34–36);
   XII – Pain in the legs (lines 36–40);
   XIII – Pain in the legs and on the side of (a) ... (lines 40–47);
   XIV - Thirsty for ... (lines 47–49);
   XV – Swelling in the groin (lines 49–50);
   XVI – Pain in the limbs and in the eye sockets (lines 51–54);
   XVII – Hemorrhage ... (lines 54–59);
   COLUMN 3:
   XVIII - Sexual stimulant (line 1);
   XIX – Pregnancy diagnosis (lines 2–3);
   XX – Intoxication due to pregnancy medication (lines 3–6);
   XXI - Prevention of ... (line 6);
   XXII - Contraceptive (line 7);
   XXIII – Treatment for ... (lines 7–8);
   XXIV – Muscle cramp (trismus) of the uterus (lines 8–9);
   XXV - Fever (lines 9–11);
   XXVI – Pregnancy diagnosis (lines 12–14);
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XXVII – Pregnancy diagnosis (lines 15–17); XXVIII – Pregnancy diagnosis (lines 17–19); XXIX – Pregnancy diagnosis (lines 19–20); XXX – Pregnancy diagnosis (lines 20–23); XXXI – Pregnancy diagnosis (lines 23–24);

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XXXII - Pregnancy diagnosis (lines 24-26);

XXXIII – Prevent trismus during childbirth (lines 25–26);

XXXIV - Urinary problem (lines 27-28).



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3. Hieroglyphic text, transliteration and translation

COLUMN 1

No. I

¹ šs3w s.t jr.tj=sj mr n(j) m33.n=s ḥr mn nḥb.t=s [...]

² dd.hr=k r=s h3°w pw n jd.t m jr.tj=sj jr(j).hr=k r=s [...]

³ k3p sj ḥr sntr ḥr mrḥ.t-m3w.t k3p

⁴ k3.t=s ḥr=s k3p jr.tj=sj ḥr jns.wt n.t gnnw

⁵ rdj.hr=k wnm=s mjs.t n.t ^c3 w3d

Translation

¹ Treatment of a woman whose eyes are aching till she cannot see, on top of aches in her neck: ² you should say to her: " it is discharges of the womb in your eyes!".

You should treat her: ³ fumigate her with incense and fresh oil, fumigating ⁴ her vulva with it, and fumigating her eyes with goose leg fat. ⁵ Then, you should give her to eat a fresh donkey liver.

No. II

 5 šs $_{3}$ w s.t mr n(j) 6 jd.t=s m $_{6}$ p(j) $_{6}$ dd. $_{6}$ r=k r=s ptr ssn.t(= $_{6}$ t)

jr $\underline{d}d=s$ n=k $\underline{j}w=\underline{j}^{7}$ $\underline{h}r$ ssn.t $\underline{3}$ $\underline{s}r$ $\underline{d}d.\underline{h}r=k$ r=s nmsw

pw n jd.t jr(j).hr=k r=s 8 k3p sj hr ssn.t=s nb.t m 3šr

Translation

 5 Treatment of a woman in pain. Her 6 womb does not deliver (its period). You should say to her: "What do you smell?". If she says to you: "I 7 smell some roasting."

Then you should say to her: "This is some effusion of the womb!". You should treat her: 8 fumigate her with anything it smells like roast.

No. III

⁸ šs₃w s.t ḥr ⁹ mn pḥ(.wj)=sj kns=s w₃bw n mn.tj=sj dd.hr=k r=s 10 h3cw pw n jd.t jr(j).hr=k r=s wch š3š3 qd ¹¹ jrt.t hnw 1 pf srf sqbb jr(j) m htjw w^c.t ¹² swrj

1111004 + m dw3.t 4

Translation

⁸ Treatment of a woman ⁹ aching in her hear, groin and perineum. You should say to her: 10 "These are discharges of the womb!".

Then, you should treat her: 1 qd of chufa (cyperus esculentus), 1 qd of fruit, 1 hin of ¹¹ cow milk. Boil, let it cool down, ¹² drink on 4 mornings.

No. IV

šs3w s.t hr kns=s k3.t=s ¹³ d3d3.t n.t k3.t=s jmj.tj hpd.w(j)=s(j) $dd.hr=k r=s s^3 wr^{14} n ms(j).t jr(j).hr=k r=s mrh.t m3w.t$ hnw 1 jwh 15 k3[.t=s] m [...].t=s

Translation

¹² Examination of a woman: regarding her groin, vulva and ¹³ the circuit of her vulva, between her buttocks. You should say to her: "Big dilatation 14 of birth!".

Then, you should treat her: 1 hin of fresh oil. Pour on her ¹⁵ vulva and her [...].

No. V 15 šs $_3$ w s.t hr mn jbh.w=s nh.t=s n(j) 16 rh[.t] ns(q) $r(3)=s \text{ dd.hr}=k \text{ r=s ti}3w \text{ pw n jd.t jr(j).hr}=k \text{ r=s}^{17} \text{ k[3]p.jn}=k \text{ sj}$ ḥr mrḥ.t sntౖr m dȝdȝw jwḥ m 18 [...]=s mwy.t n.t $^{\circ}$ 3 qm3y snw=f hrw 1 n wš=f sj 19 [...] j[r]

mn=s [kn]s=s r mn [m] h3[b]w=s r mn m hpd.w=s

¹⁵ Treatment of a woman aching in her teeth and throat to the point that she ¹⁶ cannot bite or [...] her mouth. You should say to her: "It is a trismus of the womb!".

Then, you should treat her ¹⁷: after fumigating her with incense in a djadjaw-pot, pour on her ¹⁸ [...] the urine of a donkey that has "created its second" the day after it was feed. ¹⁹ If her pain is situated from the bellybutton to her buttocks, it is a demon (untreatable).

No. VI

Translation

²⁰ Treatment of a woman aching her limbs and ²¹ eye-sockets. You should say to her: "It is some deprivation of the womb! No beer-drinking ²² shall grant a healthy birth!".

Then, you should treat her: 1 hsb of watery porridge. Drink it on 1 [+ x] mornings.

Translation

 23 Treatment of a woman aching in her feet and legs after a walk. You should say to her: "It is a 24 discharge of the womb!".

Then, you should treat her: rub her feet and legs 25 with mud until she is well.

No. VIII

Translation

²⁵ Treatment of a woman aching her throat, groin and (so much) ²⁶ her ears that she does not hear what it is said. You should say to her: "This is a tremor of the womb!".

Then, you should treat her with 27 the same prescription for expelling residuals from the womb [...].

No. IX

27 Šis syw s.t hr mn
28
 k3.t=s nb.t mjtt hw(j).t dd.hr=k r=s [...]

Pw n jd.t jr(j).hr=k r=s 29 wnm mr[h].t=s [r] snb.t=s

Translation

²⁷ Treatment of a woman aching in her ²⁸ vulva and all her limbs, as if she had been beaten. Then, you should say to her: "It is [...] of the womb".

Then, you should treat her: ²⁹ eating fat (a fat diet) until she is well.

COLUMN 2

No. X

³⁰ šs3w s.t [ḥr] mn mwy.t mj [...] mwy.t <u>d</u>3dy.t $dd.hr=k r=s^{31}hgw [pw n jd.t] jr(j).hr=k r=s jwry.t pr[.t]-šnj$ mw.t n.t gyw ³² nd sn["]w hr hnq.t n d3d3.t hn[w] 1 ps swrj dw3.t 4 33 wrš[=s] sdr.t hqr.t * **D**ololo | **D**ololo dw3(.t)=s r swrj [hn]w 1 n-mjtt jrj wrš=s 34 hgr.t r

Translation

jw(j).t nw s3 - jcw-r(3)

³⁰ Treatment of a woman aching when urinating, as if [...] burning/fermented. You should say to her: "This is 31 discharges of the womb!".

Then, you should treat her: beans of white mulberry (morus alba) and chufa (cyperus esculentus). 32 Grind it and dilute in 1 hin of fermented beer. Boil and drink on 4 mornings. May she 33 spend the day fasting on her bed after drinking 1 hin of the same. May she spend the day ³⁵ fasting until the moment of washing her mouth.

No. XI

34 1 2 3 5 6 3 1 35 6 5 1 ³⁴ šs₃w s.t hr mr.t n(j) dwn=s n(j) jw=s ³⁵ hr [sd]₃.t=f dd.hr=k r=s 3mmw pw n [jd.t] jr(j).hr=k r=s rdj.t swrj=s hnw 2 n ³⁶ h3wj rdj q3°=s st hr-°.wj

Translation

³⁴ Treatment of a woman bed-bound, without standing or ³⁵ moving. You should say to her: "This is a weakness of the womb!".

Then, you should treat her: let her drink 2 hin of ³⁶ emetic and have her to throw it up at once!

No. XII

Translation

 36 Treatment of a woman aching in her legs. You should give to her 37 bandages soaked in resin of myrrh [...] it [...]. [If ...] 38 sweet, after she has done all that, it means health. If what leaves is [...] "This is [...] of the womb!".

Then, you should treat her: 39 fresh rancid oil. Pour over her [...]. Place resin of myrrh on her [...] after doing this.

No. XIII

⁴⁰ Treatment of a woman [...] her legs and on ⁴¹ one side of her [...]. You should say to her: "(This is a) bulge [...]".

[Then you should treat her:] beans of white ⁴² mulberry (*morus alba*), chaste-tree (*vitex agnus castus*), and chufa (*cyperus esculentus*) [...] on the side she ⁴³ aches, and let her lay down on her side. If [...] circulates [...] 2, ⁴⁴ divided in her [...]. ⁴⁵ If she itches [...] it means she did all things [...] a swollen, ⁴⁶ then you should place your finger on it until you find it firm [...] on the womb, it is a demon (untreatable).

Translation

 47 Treatment of a woman thirsting [...].

Then, you should treat her: 48 vegetal mucus of a mixed mucilage and vegetal mucus of a fermented mucilage [...] 49 completely.

No. XV

Translation

 49 Treatment of a woman with a swollen groin [...].

Then, you should treat her: 50 (1) qd of malachite powder. Grind, refine and boil in 1 jar of cow milk [...] 3 [+ x].

No. XVI

Translation

- ⁵¹ Treatment of a woman aching all her limbs and eye-sockets [...] her a disease. Then you should say to her: "This is a disease of the womb!".
- ⁵² Then, you should treat her: oil, fruit of Egyptian balm (*balanites aegyptiaca*), grapes, ripe figs and beans of white mulberry (*morus alba*) [...]. Grind, refine and boil. Drink for 3 days.

No. XVII

Translation

 54 Treatment of a woman bleeding [...] mother of persons, 55 aching in her head, mouth and wrists. You should say to her: [...].

Then, you should treat her: ⁵⁶ prepare for her a spot on the ground and place on it the dregs of sweet beer. [...]. If nothing leak out from her, ⁵⁷ you should place date syrup over the top of that as a nest [...]. Let her seat on it [...]. ⁵⁸ If nothing leak out from her, you should cook [...] let it cool. Make her drink it. ⁵⁹ If, however, blood or residuals leak from her, [....].

COLUMN 3

No. XVIII

¹ k.t r sḥ3j s.t m h3j gs n b3d.t n.t jrt.t [ms ...]

b3d.t [...] ² smn jwḥ m k3.t=s

Translation

¹ Another one, for unveiling a woman while copulating. Half of a scoop of milk [...] scoop [...] ² let it stabilize. Pour it in her womb.

No. XIX

² sj3 ms.tj=sj m jd.t n.t s.t jr 'nn 3bd 'q [...] ³ [...] nw

sbn.t [...]

Translation

² Noticing a child inside the womb of a woman. If month ends and month starts [...] of nursing [...] ³ [...].

No. XX

 3 jr ḥw(j).t m phr.t n.t sjwj hr-s3 fdq ^nnw.t [p $\ ...\]$

 4 n
d sn
" s[h3k]w m [h]bsw hr hs3-'wy.t

jw
h m h3yw [...] $^5\,\mathrm{sntr}$ mrḥ.t [bnj]w

ḥnq.t ndm.t rdj m-hnw šdj m tk3w k3p.hr[=k ...]

6 m ndm-r(3)

Translation

³ If a woman was stricken by some prescription for pregnancy. After severing the fruit of an Onnw-tree, [...] ⁴ Grind and refine, by filtering with a clothing with fermented vegetal mucus. Bath with waves [...]. ⁵ Incense, new oil, date syrup and sweet beer. Give it to a burning vessel. Then, you should burn [...] ⁶ as a sweetener of the mouth.

No. XXI

Translation

⁶ For preventing [...]. Crocodile dung. Pound it with fermented vegetal mucus, immersed (in) [...].

No. XXII

Translation

⁷ Another prescription: (1) hin of honey. Pour it into her vulva. This is to be done together with a natron contraceptive.

No. XXIII

Translation

Another one [...]. 8 with fermented vegetal mucus. Sprinkle inside her vulva.

Translation

⁸ This is for removing muscular pains of the womb. Date palm pulp with [...]. ⁹ Crush it and reduce it in sweet beer. Let her sit on it with her legs apart.

No. XXV

⁹ Treatment of a woman burning (with fever) [...], ¹⁰ her eyes are harmed. Wild carrot. Spread on the left side of the "msta" (birth brick?) with spring water. Sprinkle and sever [...]. ¹¹ 4 mornings. Then, you should let her siting on the water of [...] spring water. Give [...].

No. XXVI

Translation

¹² Determining a woman who shall conceive from one who shall not. You should prepare: new fat and [...]. ¹³ Then, you should [...]. If the muscles of her breasts are showing some bulging, you should say to her: "This is pregnancy!". ¹⁴ If you find it in a normal state, you should say that she will give birth late. However, if you find her something like [...].

No. XXVII

¹⁵ Another time. You should let her siting on the ground prepared with dregs of sweet beer. Put some fruit [...] date syrup [...]. ¹⁶ vomits, she will give birth. Indeed, every time some vomit leaves her mouth it means a birth. ¹⁷ However, if there is no vomit at all she will never give birth.

No. XXVIII

Translation

 17 Another time. You should give an onion bulb on the mouth (entrance) of her belly [...] it [...] there. 18 [...]. (If) you find in it, then you should say to her that she will give birth. If you do not find [...] her face [...] 19 she will never give birth.

No. XXIX

Translation

¹⁹ Another time. You should press her hand with the tip of your finger on her point of pressure. [...]. Pain [...]. ²⁰ If [...] there is no pain, she will never give birth.

No. XXX

²⁰ Another time. Oh that calf of Horus! [...] ²¹ that I am with [...] Horus and vice-versa. Go down to the place which you [...]. The formula to be said is: [...] ²² [...]. If it comes down from her nostril, she will give birth. However, if it comes down from her vulva, so [...] ²³ [...] she will never (give birth).

No. XXXI

Translation

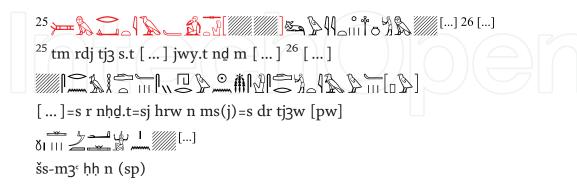
 23 Another time. If you see her face fresh with brilliance, but find something on her like $[\dots]^{24}$ $[\dots]$. If you find anything on her eyes, she will never give birth

No. XXXII

Translation

 24 Determining the one who will conceive [...] 25 [...] like that of the finger on the pressure point.

No. XXXIII



Translation

²⁵ Preventing contractions in the chewing muscles of a woman. [...]. Cowpea (*vigna unguiculata*). Grind it with [...] ²⁶ [...] for her teeth the day she gives birth will drive away the pain on her chewing muscles. This is something really good, (tested) a million (times).

No. XXXIV

27 [...] s.t mwy.t m s.t qsn.t jr jw(j).t mwy(.t) j[...] ²⁸ [...].hr

27 [...] s.t mwy.t m s.t qsn.t jr jw(j).t mwy(.t) j[...] ²⁸ [...].hr

si3=s sj wnn=s m mtt r nḥḥ

Translation

 27 [...] a woman with local difficulty while urinating. If the urine comes out [...] 28 [...] she observes it, she will be that way for ever.



4. Some final remarks

The ancient Egyptian medical papyri are an important source to understand the Egyptian approach to health treatment. Ancient Egyptian therapeutics were as equally familiar with pharmacy as they were with medicine and incantations. Thanks to the medical papyri, we know details about many of their treatments and prescriptions for diseases. They call for the treatment of many disorders and the use of a variety of substances, plant, animal and mineral.

However, the essential nature of Egyptian healing is deep-seated on religious notions. Hence, magical practices are wholly integrated with empiric-rational approaches to form an integrated but multi-faceted medical therapy.

Traditionally, Egyptology reproduces ideological prejudices regarding the ancient Egyptian medicine empiricism. All supernatural elements are normally treated as mere superstition or, in the best cases, a tool for some placebo effect. On the other hand, though a neurolinguistic approach it becomes clear how intimate was the relation between physical health and spiritual order (in opposition to the cosmic forces of chaos).

One of the main problems on dealing with medical papyri is that they usually do not check or advance with the study of the provided vocabulary. An interesting point for the benefit of Egyptology would be the review of all medical papyri in search of better information about their technical vocabulary, pharmacopoeia, medical substances, and the like.

Such study also considers the proposition of an ontology and semantic analysis. Per definition, ontology, describes the concepts of medical terminologies, practices, and the relation between them, thus, enabling the sharing of medical knowledge. Ontology-based analyses are associated with a tool to represent medical knowledge, thus relying more on the computer science-based understanding of medical terms. This approach is useful for a data entry system, in which the users merely need to browse the hierarchy and select relevant terms.

The language (logos) is the key for a culture's mentality (nous). Thus, it is impossible to deal with language without analysing the thought it's portraying. A Semantic approach aims for the real-world scenario of dealing with grammatically complex terms, which are documented in the ancient Egyptian native language.

The essential nature of Egyptian healing links religious notions and so-called magical practices wholly integrated with empiric-rational approaches to form an integrated but multi-faceted therapeutic.

There are three points to be debated by our source' analysis. Firstly, the usage of a noun, usually translated as "demon", as a synonym for incurable diseases. In case the word is taken literally, then the treatment would be incomplete. Since a "demon" could have been identified and/or exorcized, the therapeutics rather closed the case and move on. Thus, it is most likely the term is here employed as a "harmless" technical term for an untreatable condition.

Secondly, there is a verb, which is synonym with "exorcizing" (evil spirits), although it is here employed in the technical sense of dismissing pain and the expelling of any material residuals from the patient's uterus. By the second time,

the term assumes a non-magical usage as a technical jargon. Then, the *materia prima* identifies a magical ingredient: malachite powder. This ingredient would act via the principle of *sympatheia*, as it would restore one's health, thanks to a magical pun (*rebus*) relating malachite, the green colour, and the Egyptian word for "vigor" and "freshness".

Finally, another case shows a fragment of a prayer to Horus in its therapeutics; listed as part of the recommended treatment.

During the preparation of this conclusion, our first impulse was to reduce the words "demon" and "to exorcize" as metaphors, embedded by something as an Ancient Egyptian medical terminology. Then, oppose them to the hymn to Horus and the malachite powder as "magical" elements. However, that would just replicate our prejudice against Egyptian medicine, as we would reproduce the labels of "natural" and "supernatural" as necessary and antagonist categories.

The lack of exorcisms, indexes of demons and magical ingredients (such as amulets) does not "purge" the papyrus from its divine, mythical and magical aspects. The concept of cure is different from the semantic field of the word cure. The cure also performs a transcendent effect, for it changes the patient's destiny. Such effect presupposes some previous formal divine consent.

Therefore, the therapeutics consists of attempts to change the individual destiny. Thus, the transcendent world was unequivocally behind the success or failure of any medical treatment.

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Glossary

Numerals

hḥ - a million

Fractions

11114

Measures

Generic measurements

$$\iint_{\square} \sum_{\square} \nabla dx = b \cdot dx - spoon$$

$$\iiint_{\square} mh[r] - jar$$

3 -

J –

j3b − left hand/side

j3b − left hand/side

j3r.t − grape

j(j) − to wash; to clean

j(j) ← jijjw − to leave

jw − Subordination marker

jw(j).t − to come

jwh − to hydrate, to wet

```
نَامِ اللهِ jwr(j) – to conceive, to be impregned
 Sq (Vigna unguiculata)
jwhw – fruit
 jbḥ.w – teeth
IJ♣ jb.t – to be thirsty
 ≬ jm – there
 dipid → jmj – together with
\frac{1}{2} \frac{1}{N} jmj.tj – in between (of two referential objects)

        | .jn − sequential verbal affix: "after x"

 jns.t – tight
 \int jr – if, when, in case of
 irj – on that regard, about that, that
  jr(j) – to do, to deal, to treat
 homogenize)

  jr.tj – eyes (dual)

 rac{1}{2} rac{1} rac{1} rac{1}{2} rac{1} rac{1} rac{1} rac{1} rac{1} rac{1} rac{
 🏂 🎢 👸 jšd – Egyptian balm (balanites aegyptiaca)
 ບາ jd.t - womb
 3 - donkey, ass
 ·.wt – arms, members, limbs
 🌉 🏂 🖺 ʻwy.t – fermented mucilage
 'm'm – to lubricate, to rub
 \sum_{\alpha} \sum_{\alpha} \sum_{\alpha} \sum_{\alpha} m^{\alpha} t - mud
 °nn – to leave
  \bigcap_{i=1}^{n} \langle i \rangle 'nnw.t – fruit of the Onenu-tree
       📆 🔊 ʻntjw – resin of myrrh
 \bigwedge_{\Lambda} q - \text{to enter}
 W –
 **Market Specific Spe
 \{ \sum_{n=1}^{\infty} | w_3.t - lateral; side \} 
 אַל , אָל w<u>ad</u> - green, fresh, vigor, vitality, freshness
 w'r.tj – legs
 w'h - chufa (cyperus esculentus)
```

```
₩ 🎘 🗙 wpw – to separate
🕂 🖏 wnm – to eat, to consume
≦ wnn − to exist
wrš – to spend the day
№ ___ o wš – to scratch
wš' - to chew
🖔 🔽 wš·w - to feed, to devour (for animals)
🏂 🔼 wgp – to smash, to triturate
↓ 🏂 w₫ - pulp of dates
🔌 🦳 wdf – to hesitate, to be late
В –
J \stackrel{\circ}{\sim} D[J] \stackrel{\circ}{\sim} D \stackrel{\circ}{\sim} D_{ii}, J \stackrel{\circ}{\sim} D \stackrel{\circ}{\sim} D \stackrel{\circ}{\sim} D_{ii} b3b3.w – cavities
∬ bw – local
J O Din, J O Dinjw – date syrup

bḥs - calf
J[≒]} m, J≒≯m b<u>t</u>w – evil doer (demon); untreatable disease
P –
pw – demonstrative pronoun: this (is); copula particle
_{\sqcap} \mathbb{N} \mathbb{N} pwy – demonstrative pronoun: this (is) vocative
\stackrel{\square}{\rightleftharpoons} pf – that
\bigcap_{\triangle} pr(j).t – (to) exit
Ŋpḥ(.wj) − tail, back, back side
phr – circular
phr.t – prescription, medication
ps – to heat, to boil, to cook
psš – to divide
\bigcap_{i=1}^{n} \left\{ \bigotimes_{i=1}^{n} \operatorname{ptr} - \operatorname{what} (is) \right\}
F –
= =f – suffix pronoun: he, his
fdq – to sever
M -
m - in, with, as, like, from
M⊕_∧ m-ḫ.t – after
```

```
m-hnw – inside
‰_| © m-gs-ḥr(j) – upside
₩ m33 -to see
m3w.t – new, recent
∬mj – like, as
 njtt, mtt – the same way, similar, likewise, just like that, the same
 ∭ mjs.t – liver
 mw – water
mwy.t – urine, to urinate
mwy.t m s.t qsn.t - to urinate with local pain or
 difficulty
 mw.t – mother
  🎧 🖟 🎞 🖟 mw.t-rmt - mother of persons (twins?)
 mw.t – tuberculum
mn – pain, aching, suffering
mn – to situate
mnj3 - point of pulse
mr – pain
mr.t - to be in love with a bed (to be bedridden)
₩ mrḥ.t-m3w.t – new oil
 🏿 🖺 mhwj – rancid oil
 mn.t(j) – upper tights
msḥ - crocodile
m_{s} = m_{s
m_{\text{one}} = m_{\text{one}} m_{\text{on
ms(j)-t3 - birth-earth (?)
\mathbb{N}^{-}) \mathbb{N}^{\circ} mtjw – tendon, muscle
mdw.t - what is said
 N –
 m – of (masculine or common); .n - verbal affix (indirect conjugation)
 n-mjtt – according to, the same as, like
 - n(j) – negative particle
n.t – of (feminine)
 ŌI nw − of (plural)
nw – time, moment
```

```
─ nb – substantive: lord, owner; adjective: all, entire, each, any
nb.t – substantive: lady, owner; adjective: all, entire, each, any
→ nn – this, those, these
nn – negative particle
nrw – tremor; convulsion
nhq – pain
nḥb.t - throat, neck
nḥḍ.t – tooth
nq<sup>c</sup>.wt – ripe figs
\ on \ ndm-r(3) – sweetener of the mouth (breath candy)
\bigcap_{n \in \mathbb{N}} \operatorname{ntj} - \operatorname{which}, \text{ that, who (masculine)}
ntt - which, that, who (feminine)
nd - to grind
ndm – sweet
🖫 🖔 ndr – to press, to force
R –
r - for, to, than
r-nḥḥ - forever, eternally (in negative sentences, never)
حاً r-s3 - after
\simI r(3) – mouth
SI□ Sim da coluna 2
ົ້ງ ກາໜ່າ rwd(.t) – rigid; firm; hard
rdj – to give, to allow, to apply (medicine)
rd.wj – feet
H –
\square \searrow \searrow \searrow \searrow h3(j) – to go down, to move, to come
□ 🏂 🖔 h3w – to go out
□ 🎉 📢 📡 🚞 h3yw – waves
hrw – day (24 hours)
H -
\hbar \psi h h hw(j).t – to be beaten
```

```
[[h] bsw – tissue
  💆 🞢 ḥms - to sit
å å ḥnq.t − beer
\begin{picture}(20,0) \put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){100
↑ ḥn.t-end, extremity, edge
hn.t-db - finger point
 Hr – Horus
🎙 🛁 🖔 w ḥr-ʿ.wj – immediately
rac{1}{2} rac{1} rac{1} rac{1}{2} rac{1} rac{1} rac{1} rac{1} rac{1} rac{1} rac{
 r-s3 - after ∲r-s3 - after
å ♣ ḥqr.t – fasting
 ∭ ḥs – excrement
hsmn – natron
  H -
1 h3wj – emetic
⊜ bp(j) – to deliver, to menstruate
  ₩ hpr – to manifest
 hpr-wr – wild carrot (daucus carota)
⊕ 👼 ∿ hpd.w(j) – buttocks
 ⊜ .ḫr – verbal sequential affix: "and then x"
 \bigoplus_{\square} \emptyset.t – something, thing.
 ⊜ † htjw - mass
 H -
<u>h</u>3 - to pulverize
```

♠ h.t – belly, body

```
S-
\| =s – suffix pronoun: she, her
\int_{W} -sj - suffix pronoun: she, her (dual)
\int_{0}^{\infty} st – it, this, that
≩ Sw – he, him
Ş № s3tw – ground, floor
sj3 - to distinguish, to notice
sjwj – pregnancy
Swrj – to drink
ൂ № swt – in fact, really, after, then
s<sup>3</sup> - to dilatate
| [ ] | s 3m – vitex (vitex agnus castus)
sbn.t – to nurse, breastfeeding
sn[~]w – to reduce, to dilute
snb – health
snb.t – to be healthy
∫ smnh - to reduce
snf - blood
¬↓ ○ ° sn<u>t</u>r - incense
\int \int \int dt \, dt \, dt srf – to heat, to warm
顺弧、軍 sḥ3j – to reveal, to expose
sḥm – contraceptive
[s] \sim s[h_3k]w – to filter
shr – to clean, to prepare
ssn.t – to cause an odor
sš – nest
s.t - woman
∫ s.t - local
P□ L T III stpw - bandage
[sd] [sd] 3.t – to move
```

OO sdm.wj - ears

```
sdm – to hear, to listen
∬ sdr.t – to be laying down
Š-
s – fountain
my my my š3š3 - fruit
____J J ŏ š bb – mixed mucilage
šm.t – to walk, to stroll
šr.t – nostrill, 81 III z šs-m3° - something really good (effective)
🖔 🦫 🚃 šs3w – treatment, diagnostic, examine
šsp – palm of hand
šdj – vessel, container
Q -
q3° - vomit
₁ ¶ q3b.t – breast
_{\triangle} qjs (= q3s) – to vomit, to puke
△ 🏿 🔊 ///// q ·ḥw – arching
△ 🏂 📢 qm3y – to engender, to create
△ △ × qnqn – to triturate
qsn.t – ill-feeling; difficulty (symptomatic)
\sqrt[4]{ \bigcirc } qd – to assure; to grant
K –
k3p − to fumigate
لِي k3.t – vulva
km.t - illness, disease
knkn – normality, normal estate
kns – groin
∭ ky - (an)other (masculine)
 \sqrt[3]{ \sqrt[3]{_{\square}} }  ky-sp - another time
k.t – (an)other (feminine)
G –
\square {{} } \square { gyw – chufa (cyperus esculentus)
```

```
rggm(j) – to find
□ (() gnnw – fat from the leg of a goose
\bigcirc grt – in fact, really
Т-
\frac{1}{1} t3 - land
ລມີ ໂລ∐ t3ḥ.t – residual, dregs
tf3 - that
tm – negative verb (to prevent, not to do)
thb – wet, soggy
T -
🗽 <u>t</u>3 - bulb
D -
\star \searrow \odot dw3.t – early morning
dwn – to stand
்து dr – to keep away, to exorcise, to expel
<u>___</u> dq3 (= dqr) – fruit
d.t – hand
\iiint_{\mathbf{Q}} \mathbf{d3y}(.t) - wound
₫3dy.t – fermented/burning beer
∬ ∭ ∰ d3d3w – special pot to prepare medicines
], , db° - finger
ì dd - to say, to tell
```



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