3 Wellcomensis MS.MSL.14 as a therapeutic handbook

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At first sight, MS.MSL.14 seems rather inconspicuous.¹ It is a very small pocket-sized book which has obviously been handled and perused extensively. A number of pages at the end of the volume were added at a later time. The book was also exposed to water, which deleted text around the edges, but, in most cases, only over an area of just about one square centimetre. Many of the pages are torn, and sometimes held together by rough, thick thread, or simply missing. But it is precisely this fact that makes the book of particular interest. It is not a scholarly copy that was preserved in a pristine state in an ivory tower such as a major national library. Rather, it was a book that had been used in medical practice.

The book was all but forgotten in the centuries that followed, but over recent years been the subject of several studies. It was catalogued by Petros Bouras-Vallianatos² and its provenance has been described by Vivian Nutton and myself.³ Later on, I also analysed its thematic structure and edited some annotations in invisible ink.⁴ The manuscript was also a key witness for my first edition of John Archiatros' *Iatrosophion*.⁵ Yet, there is a middle section of the book that still needs further scholarly attention, which is the topic of this paper.

Here is a very rough summary of the contents of the main part of MS.MSL.14, omitting the sheets of paper that were added later at the end of the book (i.e. pp. 272–317):⁶

1. Ps.-Hippocrates, *Letter to King Ptolemy On the Nature of Man*, p. 1, l. 1–p. 12, l. 12.

1 Some of the material used for this paper was compiled during my postdoctoral fellowship at the Wellcome Trust Centre at UCL (072287).

2 Bouras-Vallianatos (2015: 283–6).

3 Nutton and Zipser (2010).

4 Zipser (2013)

5 Zipser (2009).

6 For further bibliography, see Nutton and Zipser (2010) and Bouras-Vallianatos (2015: 286).

2. Ps.-Hippocrates, *On the Human Body and Conception*, p. 12, l. 12–p. 14, l. 19.
3. Brief text on bloodletting, p. 14, l. 19–p. 16, l. 19.
4. Brief text on conception, p. 17, l. 1–p. 18, l. 16.
5. Collection of remedies, p. 18, l. 17–p. 34, l. 17.
6. Ps.-Hippocrates, *Sayings about Life and Death*, p. 34, l. 17–p. 44, l. 4.⁷
7. Ps.-Esdras, *On Illuminating Days*, p. 44, l. 4–p. 46, l. 5.
8. Compilation of recipes, p. 46, l. 6–p. 76, l. 14.
9. A therapeutic text, in part consistent with John Archiatrios, *Iatrosophion*, p. 76, l. 14–p. 81.
10. Collection of remedies, pp. 84–107.
11. John Archiatrios, *Iatrosophion*, pp. 122–3, 120–1, 126–7, 124–5, 128–271, 82–3.

The manuscript has a clearly defined structure, with items one to seven on the first 46 pages presenting introductory material, including a substantial proportion of Pseudo-Hippocratic content. This section was probably copied in its entirety from another source.⁸ It is followed by 225 pages of therapeutic content with a substantial part of the content consisting of recipes. Such a structure would make sense, as it creates a book that contains all the basics, albeit very briefly, and then concentrates on the subject of treating patients.

However, the internal structure of the first, introductory part and the second, therapeutic one could not be more different, as the latter is rather poorly structured: some text appears twice and at least one block of text does not seem to have a coherent structure. Moreover, item number 11 on the list is written in the Greek vernacular, which is not commonly used in writing.

At first sight, it seems somewhat puzzling that a scribe would go through the very considerable effort of including the same content twice while aiming to produce a book that is intent on being concise and comprehensive at the same time. After all, there is no logical reason why someone would produce a codex this small, which is very inconvenient to read, other than portability. Or to put it another way, if someone wanted to compile a book that a physician or a traveller could carry with them with ease, in order to include all the relevant content one might need, would he not ensure that the available space was managed more efficiently?

The obvious answer would be that this duplication was a mistake – i.e. a scribe not noticing that he was essentially copying the same text twice. This would also make sense given that the shorter item, i.e. item nine, comes first. By the time the scribe reached the longer version of the text in their model, they would already have copied the shorter one, and there

⁷ This item also includes a brief collection of remedies, pp. 41–4.

⁸ Nutton and Zipser (2010).

would be no way to undo this. Moreover, it would be useful to include all the additional content that could be found in the longer one.

But perhaps the answer is even more straightforward than that. It is actually quite common for manuscripts to contain two or more texts covering very similar content. An example from Wellcome Collection would be MS. MSL.60, which preserves a number of texts on urine diagnosis.⁹ There is also a whole genre of medical manuscripts attributed to Byzantine *xenons*, in which one can find similar developments.¹⁰

Thus, even though room was scarce and book production expensive, there was a genre of literature that was thematic, in the same way as other volumes might contain works by a specific author. Having several texts on the same topic was apparently seen as better than having just one.

This appears to be the more likely explanation, even though MS.MSL.14 is just a small handbook. Here, literary convention was more important than practical use. The person who produced this handbook did not reinvent the way it was structured; he applied existing standards and just shrank everything to size. The advantage of such a practice would, of course, have been that the general structure of the volume would have made sense to anyone who might use it.

The next question to be addressed is whether the second, therapeutic half of the book appears in other witnesses. It is not recorded anywhere, but, given the current state of cataloguing, it is certainly possible that a previously unknown manuscript might emerge at some later date. However, some content from item nine appears independently in a number of other manuscripts, as it is very closely related to one of the so-called *xenonika*.¹¹ This could be a possible link, since the transmission of item 11 also seems to be somehow associated with the transmission of the *xenonika*.¹²

Here is a slightly standardised edition of the text.¹³ Where the text has been edited by me, the manuscript reading can be found in brackets with the sigla L (=MS.MSL.14).

[p. 76] εἰς ζέσιν κεφαλῆς.¹⁴ ῥοδέλαιον (το δέλαιον L) βάλε καὶ ὀξείδιν (ὀξύδην L) καὶ χλίανέ τα. εἴτα ἄλειψε τὴν κεφαλὴν τοῦ ὄλγν.

On an overheated head. Take rose oil and vinegar and make it smooth. Then rub it on his entire head.

9 Bouras-Vallianatos (2015: 293).

10 See, for example, Bennett (2003: 243).

11 Bennett (2003: 406ff).

12 See n. 10.

13 As far as the spelling is concerned, I have followed the same principles as in my edition of John Archiatros. See Zipser (2009: 20ff).

14 Almost identical to John Archiatros, *Iatrosophion*, ω, 3, ed. Zipser (2009) 177.8–9. *Xenonika*, Rx4, ed. Bennett (2003) 409, contains the standard Greek version of the text.

ὅταν κνίθονται οἱ ὀφθαλμοί.¹⁵ ἔπαρον φλούδιν ῥοδίνου ὀξύνου καὶ φρύξε το εἰς τὸν ἥλιον καὶ κοπάνισον καὶ βάλε καὶ κρασὶν καὶ τάρ [p. 77] ἀξέτο καὶ θές το.

When the eyes itch. Take the peel of a sour pomegranate and dry it in the sun and grind it up and also add wine and mix and apply it.

ὅταν ῥέει αἷμα ἀπὸ τὴν μύτην (μίτην L).¹⁶ αὐγοῦ (ζυγοῦ L) φλοῖον καῦσας καὶ τρίψας καλῶς βάλε το εἰς καλάμην καὶ φύσα το. σινάπιν (συνάπην L) καὶ καρύδια (καρίδια L) ὀλίγα κοπάνισον μερέαν καὶ μερέαν καὶ αὐγοῦ ἄσπρον καὶ θές τὸ εἰς τὸν μέτωπον.

When blood flows from the nose. Burn the shell of an egg and grind it nicely and put it into a reed and blow it <into the nostril>. Grind mustard seeds and some walnuts one after the other and egg white and put it on the forehead.

ὅπον πτύει αἷμα.¹⁷ κοπάνισον ἡδύοσμον καὶ τὸν ζωμὸν του σμίξον με τὸ ὀξείδιν (ὀξύδην L) ὀλίγον καὶ ἄς τὸ πίνει.

When <someone> spits blood. Grind up mint and mix its juice with a little bit of vinegar and let him drink it.

πρὸς πόνον γλώσσης.¹⁸ ἐλαίας φύλλα (φύλα L) μασσοῦ καὶ κράτει τὰ πολλὴν (πολὺν L) ὥραν εἰς τὴν γλώσσαν.

For pain in the tongue. Chew olive-tree leaves and hold them on the tongue for a long time.

εἰς ἔμφραξιν ὠτίων.¹⁹ βάλε ἔψημα εἰς φλούδην αὐγοῦ καὶ θές τὸ εἰς τὸ καρβούνιν (καρβούνην L) καὶ ἄς χλινθῇ. εἶτα βάλλε εἰς τὸ ὠτίον. τρίψον κινάμωμον εἶτα ἔπαρον στυπτεῖαν καὶ βάλον κρόκον ὡοῦ, καὶ ἐπάνω τοῦ ὡοῦ τὸ κινάμωμον τριμμένον καὶ θές το.

For blocked ears. Put broth in an egg shell and put it on coals and let it get warm. Then put it into the ear. Grind cinnamon then take an astringent substance and add egg yolk, and also <add> ground cinnamon on top of the egg and apply it.

15 Coincides with parts of John Archiatrios, *Iatrosophion*, ω, 5, ed. Zipser (2009) 178.10–11. It is a rephrased version of *Xenonika*, Rx9, ed. Bennett (2003) 411.

16 Coincides with parts of John Archiatrios, *Iatrosophion*, ω, 7, ed. Zipser (2009) 179.5–9. *Xenonika*, Rx11, ed. Bennett (2003) 412, contains a similar text.

17 Mostly identical with John Archiatrios, *Iatrosophion*, ω, 8, ed. Zipser (2009) 179.12–13. *Xenonika*, Rx14, ed. Bennett (2003) 413, is quite similar.

18 Mostly identical with John Archiatrios, *Iatrosophion*, ω, 9, ed. Zipser (2009) 179.14–15. Very similar to *Xenonika*, Rx17, ed. Bennett (2003) 414.

19 Very similar to John Archiatrios, *Iatrosophion*, ω, 15, ed. Zipser (2009) 182.3–8.

ὅταν ῥέουσιν αἷμα.²⁰ πράσου ζωμὸν ἔνσταζε εἰς τὸ ὠτίον. τρυγέαν (τριγέαν L) οἶνου τρίψον σμίξον με τὸ κρασὶν τὸ χλίον καὶ στα ... [p. 78] εἰς τὸ ὠτίον.

When blood flows <from the ears>. Put drops of leek juice into the ear. Grind up the sediment of wine, mix it with warm wine and <drip it> into the ear.

πρὸς αἷμα ὅταν ῥέει ἀπὸ τῆς οὐλῆς.²¹ τὰ φύλλα (φύλα L) τῆς ἐλαίας βράσας με τὸ νερὸν καὶ τὸν ζωμὸν ἐκείνων κράτει εἰς τὸ στόμα πολλὴν (πολὺν L) ὥραν. τῆς μυρσίνης (μυρσύνης L) τὰς κρουφὰς καὶ τριανταφύλλων (τριανταφύλων L) ἄνθος βάλων καὶ ὄξος καὶ κρασὶν ἃς βράσουν. καὶ τὸν ζωμὸν κράτει εἰς τὸ στόμα.

For bleeding gums. Boil the leaves of an olive tree with water and keep the decoction of it in the mouth for a long time. Put the shoots of myrtle and rose flowers in vinegar and wine and let it boil, and keep the decoction in the mouth.

πρὸς σαπημένα οὐλῆ.²² κηκίδιν (κηκίδην L) καὶ σμύρναν ποιήσας οἶον τὸ ἀλεύριν καὶ πάσας τὰ οὐλῆ. κρόκον καὶ τριανταφύλλων (τριανταφύλων L) ἄνθος ποιήσον οἶον τὸ ἀλεύριν καὶ πάσσε (πάσσαι L) τὰ οὐλῆ. κρόκον κοπανίσας καὶ ἄλας ποιήσον ὅμοιον ἀλεύρου. με τὸ μέλι σμίξας ἄλειφε.

For rotting gums. Make oak-gall and myrrh like flour and apply on the gums. Make saffron and rose flowers like flour and apply to the gums. Grind up saffron and salt and make it like flour. Mix with honey and apply.

ὅταν βρωμῇ τὸ στόμα.²³ στάχος βράσον με τὸ κρασὶν καὶ κράτει εἰς τὸ στόμα. στάχος μασοῦ τὸ πρωί. ρόδα ξηρὰ καύσας καὶ ποιήσας οἶον ἀλεύριν τρίβε τοὺς ὀδόντας.

When the mouth has a bad odour. Boil base horehound with wine and apply to the mouth. Chew base horehound in the morning. Burn dried roses and make them like flour and rub on the teeth.

ὅπου πτύει αἷμα.²⁴ φλεβο[p. 79]τόμει αὐτὸν καὶ τοὺς πόδας καὶ τὰς χεῖρας καὶ ἄλειφε ἔλαιον παλαιόν. μαλία ἅπλητα βρέξε τα εἰς τὸ ὀξείδιν (ὀξύδην L) τὸ χλίον καὶ τὸ ροδέλαιον καὶ πυρίαζε τὸ στήθος. βάτου φύλλα κοπάνισον καὶ τὸν ζωμὸν σμίξε με τὸν βῶλον (βόλον L) τὸν τριμμένον (τριμένον L) καὶ πότισον αὐτόν. θές τὸ ἐμπλαστρον τὸ λεγόμενον δι' ἰτέων εἰς τὸ στήθος.

20 Very similar to John Archiatrios, *Iatrosophion*, ω, 23, ed. Zipser (2009) 185.16–18.

21 Coincides with John Archiatrios, *Iatrosophion*, ω, 30, ed. Zipser (2009) 189.16–19.

22 Coincides in part with John Archiatrios, *Iatrosophion*, ω, 31, ed. Zipser (2009) 190.4–9.

23 Coincides with John Archiatrios, *Iatrosophion*, ω, 34, ed. Zipser (2009) 191.10–15, but with some words transposed.

24 Coincides in part with John Archiatrios, *Iatrosophion*, ω, 36, ed. Zipser (2009) 192.18–193.9.

Figure 3.1 Londiniensis Wellcomensis MS.MSL.14, pp. 77–8.

Photograph by Petros Bouras-Vallianatos.

When <the patient> spits blood. Bleed them from the feet and hands and anoint with old olive oil. Soak unwashed hair in warm vinegar and rose oil and apply as a vapour bath to the chest. Grind bramble leaves and mix the juice with ground earth and let him drink. Put the plaster that is called ‘from willows’ on <the patient’s> chest.

ὅπου ξεῖρ᾽ εἴ τι φάγη.²⁵ ἁλῶν (λῶν L) μαστίχην στύρακαν λάδανον λίβανον ἄψινθέας σπόρον κοπάνισον ἔψησον ὀλίγον πολλά ὀλίγον. ἀλεύριν καθαροῦ σίτου καὶ οἰνάνθην καὶ οἶνου ὀλίγου ποίησον ἔμπλαστρον καὶ θές τὸ εἰς τὸ στήθος τοῦ.

When someone vomits whatever he eats. Grind aloe, mastic, storax, ladanum, frankincense, wormwood and boil it a little <by which I mean> very little. Make a plaster from clean bread flour and vine flower and a little wine and put it on his chest.

25 Coincides largely with John Archiatros, *Iatrosophion*, ω, 38, ed. Zipser (2009) 193.21–4.

περί δυσεντερίας.²⁶ λημναίαν (λυμνέαν L) σφραγίδα ἃς τὴν πίνειν τριμμένην (τριμένην L) με τὸ νερόν τὸ χλίον. ποιήσας ἔμπλαστρον καὶ βάλε ἀλώην στγ β' λίβανον στγ β' καὶ ἔψημαν.

On dysentery. Let him drink Lemnian earth, ground up with warm water. Make a plaster and add two *stagia* of aloe, two *stagia* of frankincense, and broth.

ὅπου κατουροῦσι αἷμα.²⁷ φλεβοτόμει τούτους (τούτοις L) ἀπ' ἀγκῶνος καθόλου φλέβα (φλε.... L) [p. 80]σπόρον πότισον μετ' ὀξειδιν (ὀξύδην L) καὶ μέλι ὀλίγον. λαγωῦ πυτίαν πότισον μετὰ ὀξειδιν (ὀξύδην L) καὶ μέλι ὀλίγον.

When they are urinating blood. Bleed them from the main vein on the elbow ... seed let him drink with vinegar and a little honey. Drink hare's rennet with vinegar and a little honey.

πρὸς στραγγουρίαν.²⁸ στραγγουρία (ραγγουρία L) δὲ ἐνὶ ὅταν κατουρεῖ καὶ στάζει ὀλιγούτικον μετὰ πόνου καὶ ἀνάγκης καὶ βίας. φλεβοτόμει δὲ τὴν καθόλου φλέβα. ἔπαρον τοῦ ἐχίνου τὸ δέρμα ἦτοι τὸ λεγόμενον σκανζόχοιρον καὶ θές τὸ εἰς τὰ καρβούνια τὰ ζωντανά. καὶ κάπνιζε τον εἰς τὰ αἰδοῖα, ὅπου οὐ δύναται κατουρήσιν. ἡ δὲ τροφή αὐτοῦ ἃς ἐνὶ εὐχυμος ἦτοι κουβίδια λιθρινάρια ἀστακοὶ (στακοὶ L) καλαμάρια καβούρους ποταμίους καὶ πέστρουβας. θρύμβον παλαιὸν ἔψησον με τὸ κρασὶν τὸ παλαιόν. ἐξ αὐτοῦ δὲ πότισον κοχλιάρια δ'. ρεπάνια κοπάνισε χωρὶς τὰ φύλλα (φύλα L) τους. εἶτα βάλε τὸν ζωμόν τους εἰς ζουκάλιον καὶ κρασὶν καὶ ἃς βράσουν. εἶτα σακέλλισον αὐτὰ [p. 81] δυνατὰ καὶ πότισον αὐτὸν ἡμέρας γ' καὶ κολοκύνθην (..οκίνθη L) ξηρὰν κοπάνισον οἶον τὸ ἀλεύριν ἴσα ἕνα κοχλιάριον καὶ πότιζε μετὰ κρύου (ίου L) νεροῦ. δένδρוליβανον ἃς βράσῃ (βράσει L) με τὸ κρασὶν καὶ πότισον αὐτὸν καθ' ἐκάστην ἡμέραν χλίον ἕως ἡμέρας ι'.

On strangury. Strangury is when someone urinates and only drips a tiny amount with pain, urgency, and much effort. Bleed him from the main vein. Take the skin of a hedgehog, that is the so-called *skanzoxoiros* and put it on hot coals. And apply the vapour to the groin, where he cannot urinate. Let his diet be balanced, that is bullhead fish, common pandora, lobster, squid, freshwater crabs and trout. Boil old summer savoury with old wine. Let him drink four spoonfuls of it. Grind radishes without their leaves. Then pour the juice into a pot with wine and let it boil. Then pound them forcibly and let him drink it for three days. And grind one spoonful of dry pumpkin like flour and let him drink it with cold water. Boil rosemary with wine and let him drink it warm every day for ten days.

26 Coincides with John Archiatrios, *Iatrosophion*, ω, 39, ed. Zipser (2009) 194.5–6, 195.3–4.

27 Coincides with John Archiatrios, *Iatrosophion*, ω, 46, ed. Zipser (2009) 199.3–6.

28 Coincides largely with John Archiatrios, *Iatrosophion*, ω, 47, ed. Zipser (2009) 199.7–200.4.

ὅπου κατουρεῖ τὰ ροῦχα.²⁹ πετεινοῦ γούργουρον καύσε τον καὶ ποιήσον οἶον τὸ ἀλεύριν καὶ πότισον αὐτὸν τὸ πρωὶ νῆστιν μετὰ κρύου (κρίου L) ὕδατος. λαγωῦ ὀρχίδια ξύσε τα με τὸ μαχαίριν (μαχέριν L) καὶ τὸ ψιλότερον πότισον με τὸν οἶνον τὸν χλίον. χοίρου φούσκαν ὅπου ἔχει τὸ κατούρημαν ταύτην καῦσε (καύσαι L) εἴτα κόψε αὐτὴν ὡς ἄλευριν καὶ πότισον με τὸ κρασὶν τὸ χλίον κατὰ πρωί.

When someone urinates in his clothes. Burn the throat of a cock and make it like flour and let him drink it with cold water in the morning having fasted. Scrape the testicles of a hare with a knife and let him drink the fine particles with warm wine. Burn the bladder of a pig – where it keeps the urine – and then pound it like flour and let him drink it with warm wine.

πρὸς φλεγμονὴν ἥπατος τὸ λεγόμενον συκότην (συκότην L).³⁰ οὕτως (...τος) δὲ θέλεις νοήσῃν

On inflammation of the liver, the so-called *sykotin*. You may recognise it like this.

As can easily be seen from the references in the footnotes, this text coincides in part with the vernacular version of John Archiatros, but it is much shorter. It does not contain any significant content that would not have been included in John's text. Some paragraphs also occur in a text associated with the *xenons*, as edited by David Bennett, however, the wording is not always exactly the same. Overall, it appears that the situation is comparable to that of the synoptic gospels: we know that there once was a common source which is today lost and then several intermediate stages of the transmission, but we do not have the evidence to reconstruct the exact dependencies.

For the second part of my paper, I would like to take a closer look at item ten on my list, which has not previously received any scholarly attention at all. The text starts and ends abruptly with pages missing or misplaced, so that we cannot be sure that this was indeed its original position in the codex.

These are the headings within the text in transcription:

ἕτερον πρὸς τὸ ἐξουρίσαι λίθον (another recipe on passing a kidney stone), p. 84;

περὶ τοῦ γνῶναι θάνατον (signs of <imminent> death), p. 84;

περὶ φθειρας (on lice), p. 85;

περὶ ψύλλ.ς (on fleas), p. 85;

πρὸς φεύγοντα (on a fugitive), p. 85;

29 Coincides largely with John Archiatros, *Iatrosophion*, ω, 48, ed. Zipser (2009) 200.5–11.

30 Coincides with John Archiatros, *Iatrosophion*, ω, 49, ed. Zipser (2009) 200.12–13.

γυνή εἰς τὸ ποιῆσαι παιδὶν (for a woman to produce a child), p. 85;
 εἰς μεθύοντα (for someone who is drunk), p. 85;
 εἰς γενῆσαι (on conceiving), p. 85;
 ὑπνωτικόν (sleeping draught), p. 86;
 ἀντιφάρμακον τῶν ἐρπετῶν πάντων (antidote for all snake <bites>), p. 86;
 περὶ πόνον πλευροῦ (pain in the ribs), p. 86;
 περὶ τοῦ καυσομένου ὑπὸ δίψης (on excessive thirst), p. 87;
 εἰς τὸ μὴ ἀποβάλλειν καρπὸν δένδρου (that fruit does not fall from a tree), p. 87;
 περὶ ἀρρενος ἢ θύλεως (on how to recognise whether <a child will be> male or female), p. 87;
 περὶ τριχοφυΐας (on how to grow more hair), p. 87;
 τοῦ γινῶναι κλέπτην (how to recognise a thief), p. 88;
 περὶ τοῦ μὴ ... πινᾶν (if someone does not...), p. 88;
 blank line, heading missing, p. 89;
 περὶ ἐξωχάδων (on external haemorrhoids), p. 89;
 περὶ ἐσωχάδων (on internal haemorrhoids), p. 89;
 περὶ στενώσεως καὶ φλεγμάτων ἐν τῷ στίθει (on tightness and phlegm in the chest), p. 89;
 περὶ τοῦ γινῶναι εἴτε ἄρρεν εἴστιν τὸ παιδίον εἴτε θήλυ (on how to recognise whether a child is male or female), p. 90;
 περὶ πόνον ἥπατος καὶ νεφρῶν (on pain in the liver and kidneys), p. 90;
 περὶ τοῦ στίσαι αἷμα ρινὸς (on how to stop a nose bleed), p. 90;
 ἐὰν πίνει ἄνθρωπος ἐβδέλανας (if someone swallows leeches), p. 91;
 πρὸς πόνον λυγμοῦ (on a sore throat), p. 92;
 ἐὰν καταπεί τις ὀστοῦν (if someone swallows a bone), p. 92;
 εὐχή ... πόνον ὀδόντων (prayer for toothache), p. 93;
 εἰς πόνον ὀδόντων (on toothache), p. 94;
 εὐχή ὅποτε κρατηθῇ τὸ ἄλογον διὰ φλεγμὸν οὔρου (prayer if a horse has phlegm in the urine), p. 94;
 περὶ κορίδας (on bugs), p. 95;
 περὶ ψίλους (on fleas), p. 95;
 περὶ κοιμω..να (?), p. 95;
 περὶ τοῦ μὴ ἀποθάνη βρέφος ἐν τῇ μήτρᾳ (so that a foetus does not die inside the womb), p. 95;
 περὶ τοῖς ποσὶν (on feet), p. 95.

From this point onward, there are fewer clearly defined headings, as the focus shifts towards medication.

Even a brief look at the above list reveals that it is entirely chaotic. Only in four instances are paragraphs arranged in a thematic sequence: right at the start of the fragment, where ‘another’ remedy for kidney stones is mentioned, then the passages on external and internal haemorrhoids and finally two paragraphs on insects near the beginning and the end. Moreover, three chapters have no medical content: on a fugitive, on how to recognise a thief

and a treatment for fruit trees. One chapter deals with veterinary medicine, which is not usually covered in standard medical collections. The content of the chapters is sometimes similar in scope and vocabulary to John Archiatros' text or the text of the collection described above. However, a significant proportion is completely different, in that it is largely related to magic. On the whole, it is quite similar to the sheets of paper that were subsequently added to the codex, and also to some *iatrosophia* of the more disorganised type.³¹

As mentioned above, because of the damage to the codex we cannot be sure where these pages originally belonged. Generally speaking, there appears to have been a tendency for rough drafts or badly organised collections such as this to be added to the end of a therapeutic text.³² Indeed this may have been the case here, as the end of John Archiatros' text is likewise missing from the codex.

To illustrate the content, style and scope of the text, see, for instance, this extract from page 85 of the codex:

περὶ φθείρας. πήγανον κοπανίσας μετὰ ἐλαίου ἄλειψε.

On lice. Grind rue with oil and apply.

περὶ ψύλλης (ψίλλ.ς L). αἷμα μαυροῦ τράγου χρίσον τὸ φιλοκάλιν καὶ θές τοῦτο μέσον τοῦ οἴκου καὶ συνάγονται ὁμοῦ. καὶ τὸ πρῶι μὴ φονεύσεις ἀλλὰ ῥίψον αὐτοὺς κατ' ἰδίαν.

On fleas. Apply the blood of a black he-goat on a broom and put it in the middle of the house and they will congregate there. And in the morning you should not kill them but throw them out individually.

πρὸς φεύγοντα. γράψων οὕτως. γεννηθήτω ἡ ὁδὸς αὐτοῦ σκότος καὶ ὀλίσθημα (λίσθημα L). καὶ ἄγγελος κυρίου ἐκδιώκων αὐτὸν μιχαὴλ δίνη σε ῥαφαὴλ διώκει σε ἰσαὰκ δεσμεῖ σε (σ. L) ταχὺ ταχὺ ταχὺ.

On a fugitive. Write thus: Let his way be darkness and stumbling and may the angel of the Lord pursue him. May Michael strike you, Raphael hound you <and> Isaac bind you quickly, quickly, quickly.

The first paragraph contains a simple pharmaceutical treatment for a condition that is often mentioned in medical texts. It is rather brief, which makes it appear slightly out of place in a work by a late antique encyclopaedist

31 See Zipser (2019) for an in-depth discussion of the matter. See also Ieraci Bio (1982); Tselikas (1995); Garzya (2003); Touwaide (2007); Marchetti (2011); and Oberhelman (2015).

32 See, for instance, the original version of John Archiatros, *Iatrosophion*, 8, 184ff, ed. Zipser (2009) 156ff or in the transmission of Alexander of Tralles' *Therapeutics* in Florentinus Laurentianus gr. plut. 74.10 (fourteenth century), ff. 330r–344v. The same phenomenon can also be observed in other texts.

such as Paul of Aegina, but it would be perfectly consistent with the work of John Archiatros. That said, John's text does not mention this specific recipe for the treatment of head lice.

The next paragraph also covers a medical topic, describing a trap for fleas which uses blood as a bait and which seems quite sensible. However, the instruction to use blood from a black he-goat is clearly rooted in magic, and there is no mention of any more complex pharmacological treatment. The third paragraph is entirely of a magical nature, as it describes an amulet, including a curse. Moreover, it is clearly not a medical matter.

The remainder of the text is of a very similar nature, and one is left wondering how and why it was included in the codex at all. Given the length of the collection of paragraphs, it does not appear likely that these were originally notes made by previous owners that were added on some blank space in the manuscript and then copied by mistake. Someone must have made a conscious decision to copy the text and include it in a book. It is, however, quite possible that the text was originally noted down by a user on a quire of spare pages, which were then inserted into a volume that was subsequently used as a master copy, just as the final pages were later on inserted into MS.MSL.14.

But, in any case, the professional scribe who would later go on to produce MS.MSL.14, or the person who commissioned the book, decided to keep the collection as it stood, despite its obvious shortcomings. On the whole, this created a corpus of therapeutic texts of rather diverse scope. Of these, text eight would be by far the most sophisticated and polished. It contains recipes such as this one on p. 49 (in a slightly edited form, with the original manuscript readings in brackets):

Σκευασία (Σ..... L) διὰ καλαμίνθης. πεπéρεως κοινοῦ οὐγγίας ζ' καλαμίνθης οὐγγίαν α' γλήχωνος (γλίχωνος L) οὐγγίαν α s'' πετροσελίνου οὐγγίαν α s'' σελίνου σπέρματος στγ γ' λιβιστικοῦ οὐγγίας β' σισέλεως μασαλεωιτικῆς οὐγγίαν α s'' θύμου στγ γ' μέλιτος τὸ (τοῦ L) ἄρκουιν.

Recipe <for medication made> from mint: common pepper six ounces, mint one ounce, pennyroyal one and a half ounces, parsley one and a half ounces, celery seed three *stagia*, lovage two ounces, Massilian hartwort one and a half ounces, thyme three *stagia*, <and> a sufficient quantity of honey.

At the opposite end of the spectrum, text ten is clearly the least accomplished. Texts nine and eleven would be somewhere in between but closer to text eight in scope and content.

Overall, the therapeutic section of this manuscript caters for diverse audiences, ranging from those who would not necessarily have any medical training (see, for instance, the amulets and the content relating to magic) to skilled doctors, or pharmacists for that matter. Throughout the volume, the *materia medica* described is generally of a simpler nature than for instance in Galen or

Paul of Aegina, but still quite varied; the samples translated above are representative in that respect. What is most striking is that only very few imported goods such as cinnamon are mentioned. All of this gives a very coherent picture of the intended audience of the volume. The fact that the book had suffered serious wear and tear is entirely consistent with these findings.

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