

**ELECTRONIC KNOWLEDGE SYSTEM
ON AVITAMINOSIS**

INTERNET/INTRANET VERSION

USER'S GUIDE

Getting started

1.1. What is ELECTRONIC KNOWLEDGE SYSTEM?

ELECTRONIC KNOWLEDGE SYSTEM is a system assisting intellectual activity. It was developed to help to identify and to classify situations and to get advices how to solve problems.

Ideas source of Electronic Knowledge System on Avitaminosis is How to feed you in a right way. Academician Tasho Tashev. Medicina i fizkultura. Sofia. Bulgaria. 1988.

1.2. What you should know first

Before you begin using E-Knowledge System, you need to understand the fundamentals of using operating systems like MS Windows and Linux. It is assumed that you know how to create and view directories, edit files, copy and print files, run programs.

1.3. Hardware and software requirements of E-Knowledge System

Operating systems: MS Windows, Linux, Unix, Mac OS X 10.

Any graphical Internet browser like Internet Explorer, Firefox, Opera in a case of using Internet/Intranet version.

Pop-up windows should not be blocked in a browser.

1.4. User interface

E-Knowledge System user interface is mouse-driven windows-style, and there is no need to know any special commands. Usually you should use buttons, listboxes and checkboxes to control it.

1.5. Features supported

- Possibility to search for appropriate chapter of the questionnaire for a problem's description input;
- Unlimited number of propositions on your problem;
- Propositions sorted according to the Proposition Value Index (PVI), which shows how much the proposition takes into account known information;
- Possibility of getting proposition's description;
- Possibility to view any knowledge item selected from the list.

Setup

2.1. Starting Internet version of E-Knowledge System

To start E-Knowledge System:

1. Start graphical browser
2. Go to URL like: <http://host/avitamin>

Program dialogue

3.1. After start you will see a picture like the following.

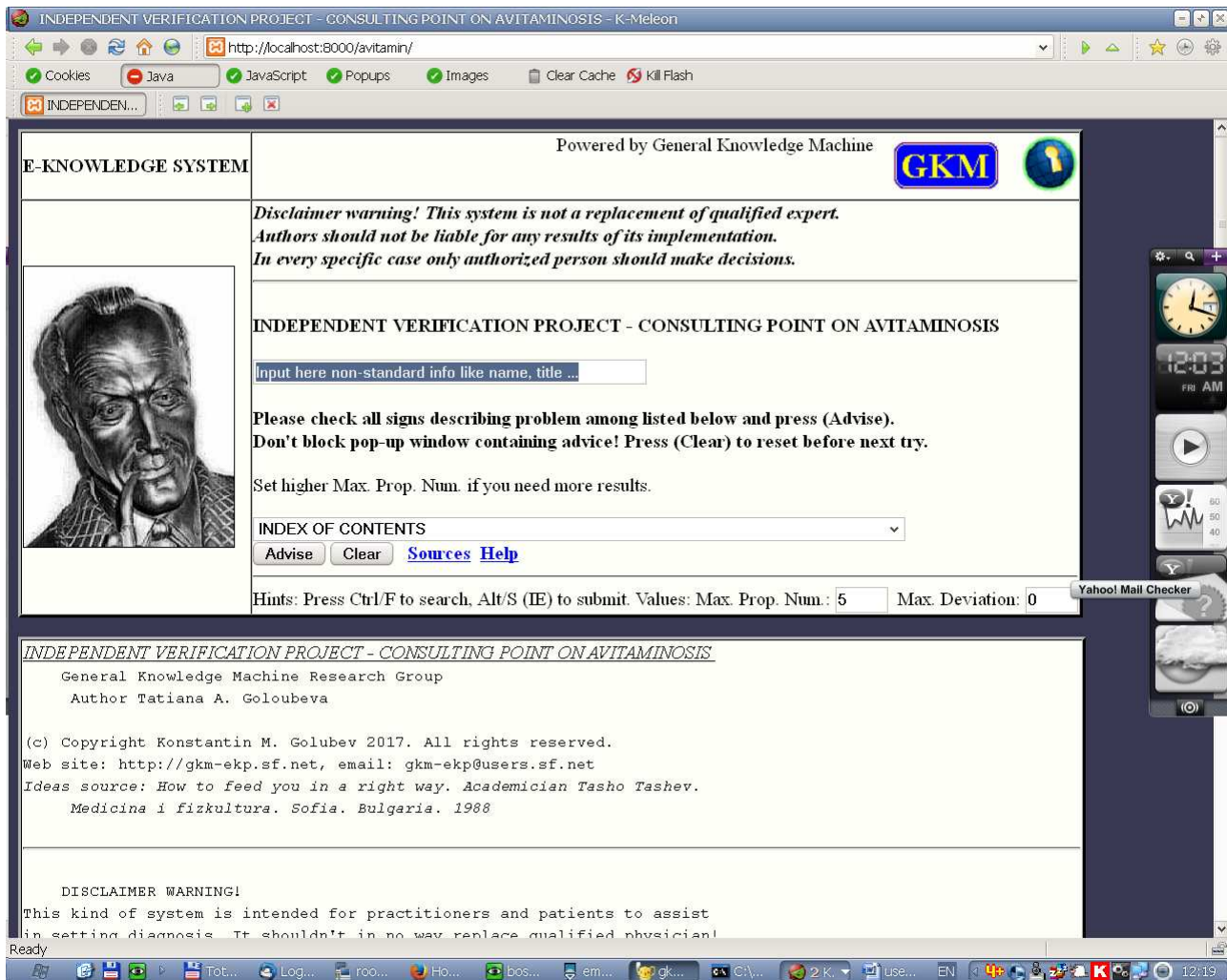


Figure 1.

Every time E-Knowledge System is ready to get a description of a problem, you will see this picture.

If you press "**INDEX OF CONTENTS**", control will be focused on the listbox of problem description questionnaire index.

If you press "**Advise**", there will be initiated propositions issuing to find possible solutions. Answer will be placed into the second browser window.

If you choose "**Clear**" you will reset the form.

If you press "**Sources**" you will get indexed list of texts of all propositions descriptions.

If you choose "**Help**" you will get this manual.

3.2. Input of description.


INDEPENDENT VERIFICATION PROJECT - CONSULTING POINT ON AVITAMINOSIS - K-Meleon

http://localhost:8000/avitamin/

Powered by General Knowledge Machine **GKM**

E-KNOWLEDGE SYSTEM

*Disclaimer warning! This system is not a replacement of qualified expert.
Authors should not be liable for any results of its implementation.
In every specific case only authorized person should make decisions.*



INDEPENDENT VERIFICATION PROJECT - CONSULTING POINT ON AVITAMINOSIS

A

Please check all signs describing problem among listed below and press (Advise).
Don't block pop-up window containing advice! Press (Clear) to reset before next try.

Set higher Max. Prop. Num. if you need more results.

INDEX OF CONTENTS

[Sources](#) [Help](#)

Hints: Press Ctrl/F to search, Alt/S (IE) to submit. Values: Max. Prop. Num.: 5 Max. Deviation: 0

INDEPENDENT VERIFICATION PROJECT - CONSULTING POINT ON AVITAMINOSIS

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Web site: <http://gkm-ekp.sf.net>, email: gkm-ekp@users.sf.net
Ideas source: How to feed you in a right way. Academician Tasho Tashev.
Medicina i fizkultura. Sofia. Bulgaria. 1988

DISCLAIMER WARNING!
This kind of system is intended for practitioners and patients to assist
in setting diagnosis. It shouldn't in no way replace qualified physician!

Ready

Figure 2.

Input name of a patient. Checking listbox **INDEX OF CONTENTS** you may choose chapter of questionnaire to look for.

Index is the following:

EYES

WOUNDS, VESSELS, EDEMAS

SKIN

HAIR

PAINS, BONES, TEETHS

LIPS, GUMS, TONGUE

NERVES, HEAD, PSYCHOLOGY

DIGESTION

GLANDS

MUSCLES

INFLAMMATIONS, HEART DESEASES

For example, you may choose '**HAIR**'.

After that you should select signs describing problem.

INDEPENDENT VERIFICATION PROJECT - CONSULTING POINT ON AVITAMINOSIS - K-Meleon

http://localhost:8000/avitamin/#W5

INDEPENDENT...

HAIR

- ☒ 9. Mat hair.
- ☒ 10. Hair falling out.
- ☒ 11. Falling out and fragility of hair and nails.
- ☐ 12. Premature going grey.

[Index](#)

PAINS, BONES, TEETHS

- ☐ 13. Pains, fragility of bones and osteomalacia.
- ☐ 14. Enamel destruction and teeth falling out.
- ☐ 39. Falling behind in skeleton evolution.
- ☐ 15. Soft nails.

[Index](#)

LIPS, GUMS, TONGUE

- ☐ 16. Cracks in a mouth corner and small wrinkles above upper lip.
- ☐ 17. Inflammations and bleeding of gums.
- ☐ 18. Pale tongue.
- ☐ 19. Painful tongue.

[Index](#)

NERVES, HEAD, PSYCHOLOGY

- ☐ 24. Getting easily tired.
- ☐ 25. Apathy.
- ☐ 26. Premature ageing.
- ☐ 27. Forgetfulness, absent-mindedness, breaking of co-ordination.
- ☐ 28. Headaches.
- ☐ 29. Mental disorders.
- ☐ 30. Depressions, nervous disorders.
- ☐ 31. Frequent neuritis, lumbagos.
- ☐ 32. Irritability.

Ready

Figure 3.

For example, on the Figure 3 you see choice of sign's number 679. You should be careful answering because quality of advices is dependent of quality of answers.

3.3. After pressing [Advise] you will see figure like Fig. 4.

Hints: Press Ctrl/F to search, Alt/S (Internet Explorer) to submit. You may enter Max. Prop. Number value from 1 to 100: lower value results in less propositions produced, higher value leads to more number of propositions.

If you finish input, after waiting of completion you will see in a second window the figure like Fig. 4.

Electronic Knowledge System powered by General Knowledge Machine - K-Meleon

http://localhost:8000/avitamin/gkminter.php

Electronic Knowledge System on Avitaminosis

GKM

Description of the problem

A

9. Mat hair.
10. Hair falling out.
11. Falling out and fragility of hair and nails.

THE BEST PROPOSITIONS

Parameters : grades deviation = 0%, min. index. = 1%, max. prop. num. = 5

Index	Proposition	(Total 3 of 12 (25. %))
33 %	10.Vitamin F deficit	
25 %	8.Vitamin D deficit	
20 %	1.Vitamin A deficit	

10 =

According to presence of the signs:

11. Falling out and fragility of hair and nails.

Proposition 1

10.Vitamin F deficit

State.

Furunculosis, eczema.
Falling out and fragility of hair and nails.
Slow healing of wounds, burns and scalds.

Recommendations.

You must pay more attention in your menu to: peanuts,
sunflower and flax oils.

Figure 4.

You will see a list of propositions, the most valuable are the first. If you want to see more detailed information on a proposition you should select appropriate item. It is like on the Figure 5. You may print it for further use.

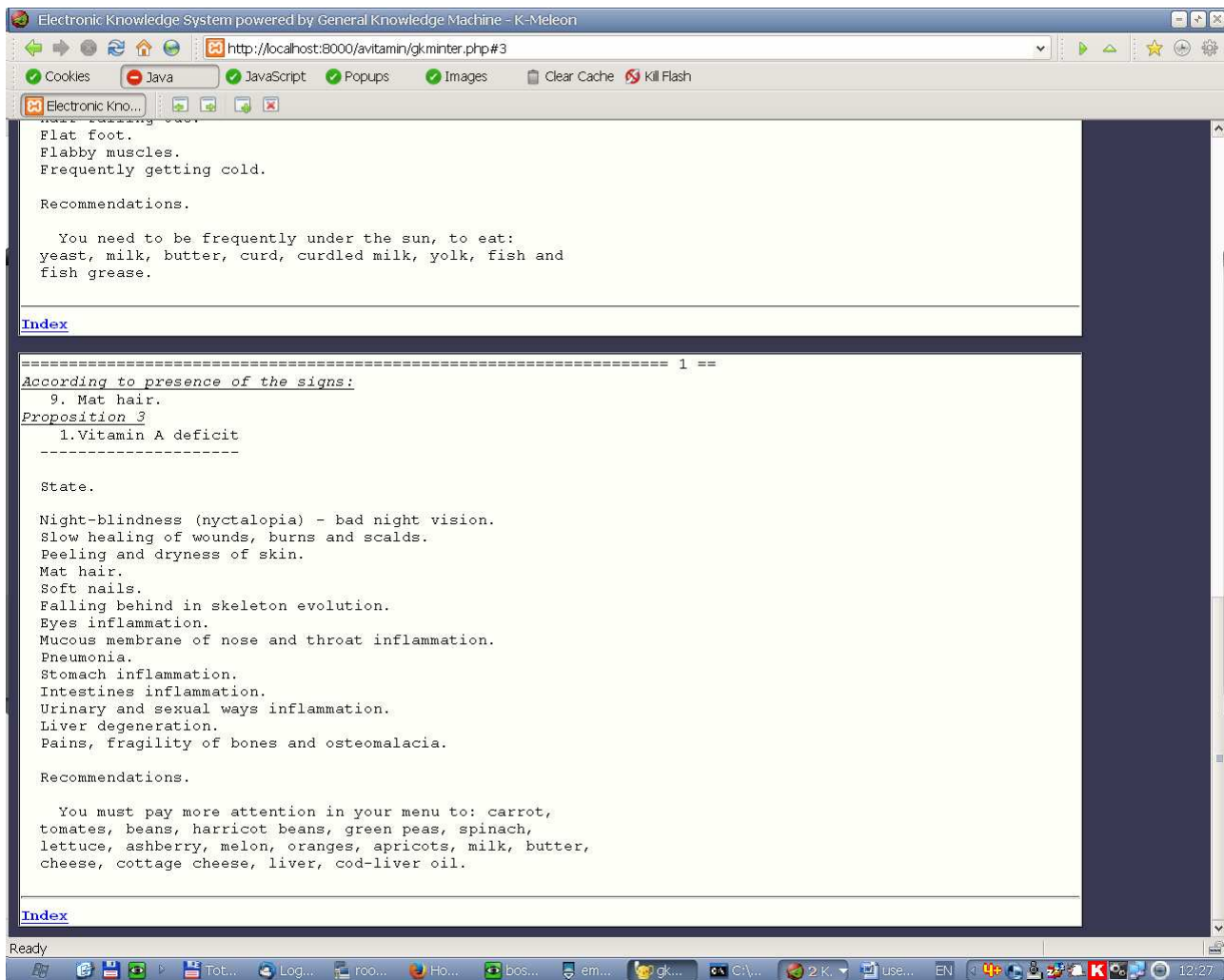


Figure 5.

If you will choose detailed description, you will see a figure like Fig. 6.

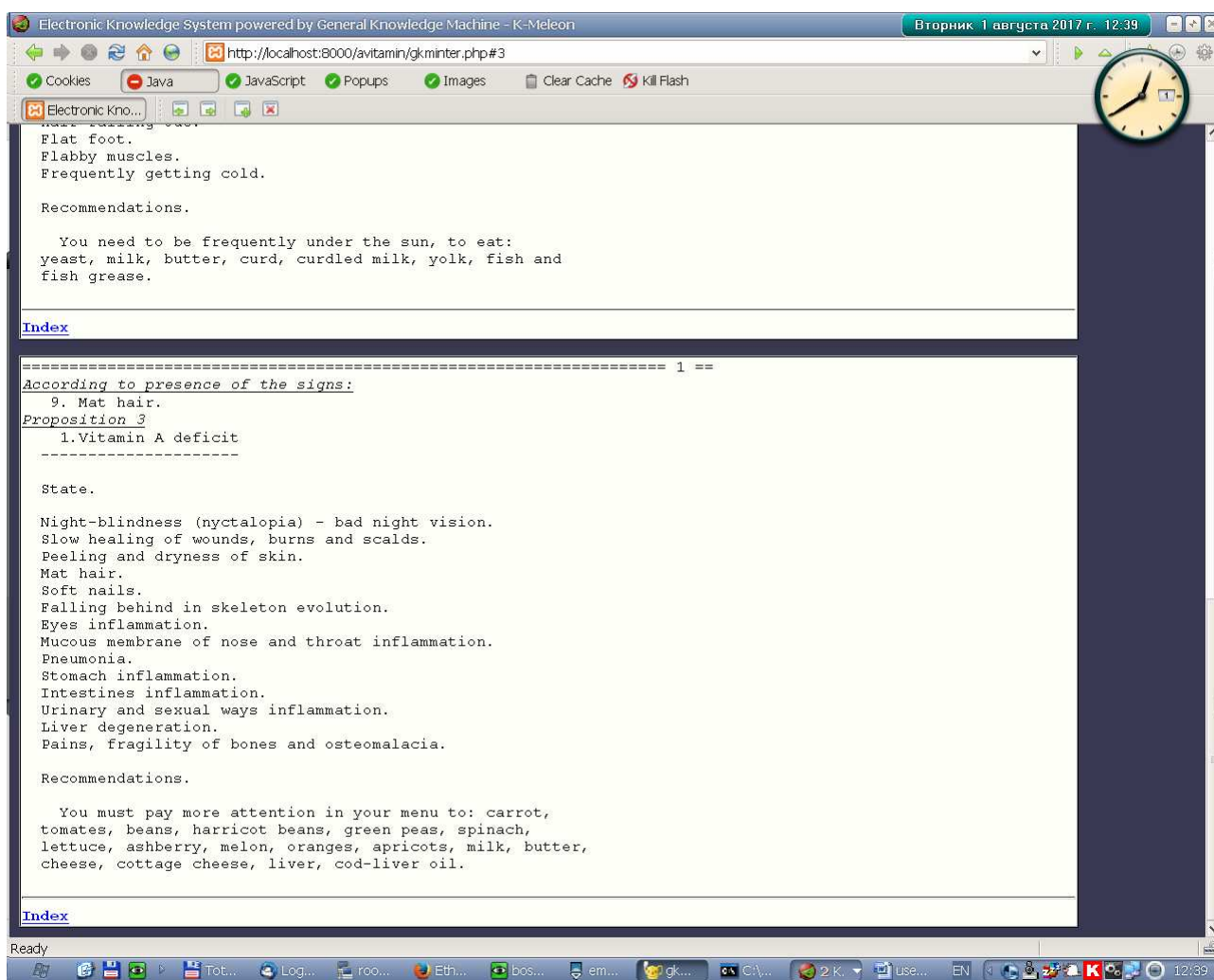


Figure 6.

3.4. If you will press [SOURCES] looking at Fig. 1 you will see a figure like Fig. 7.

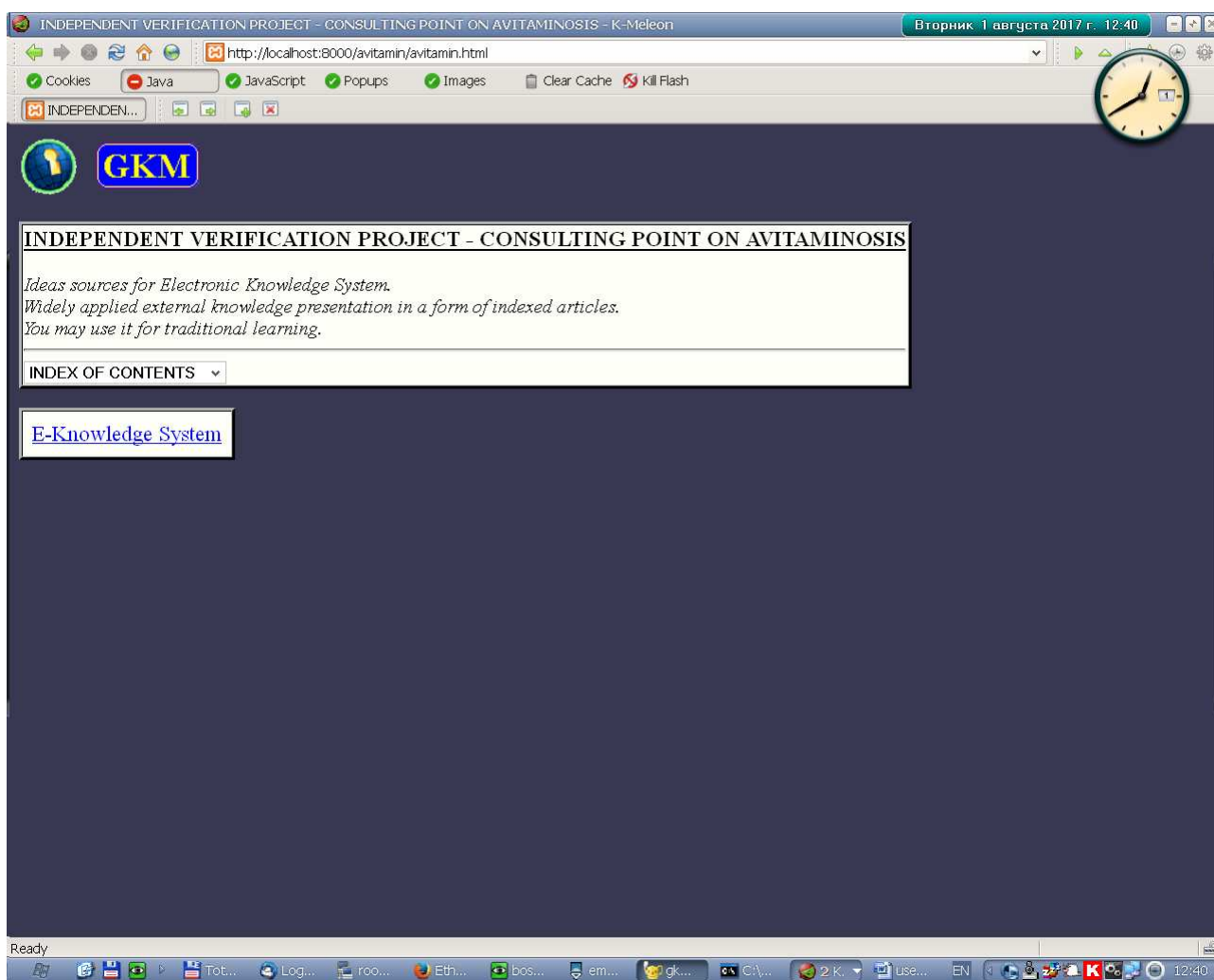


Figure 7.