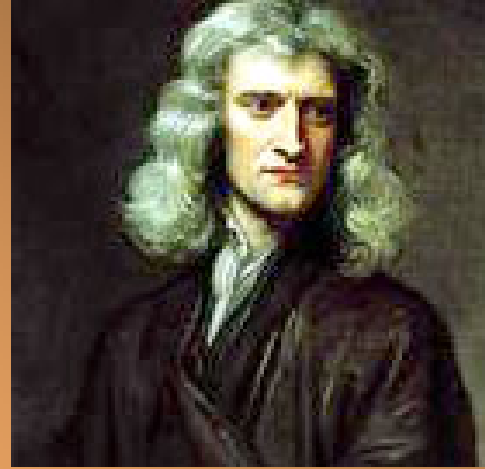


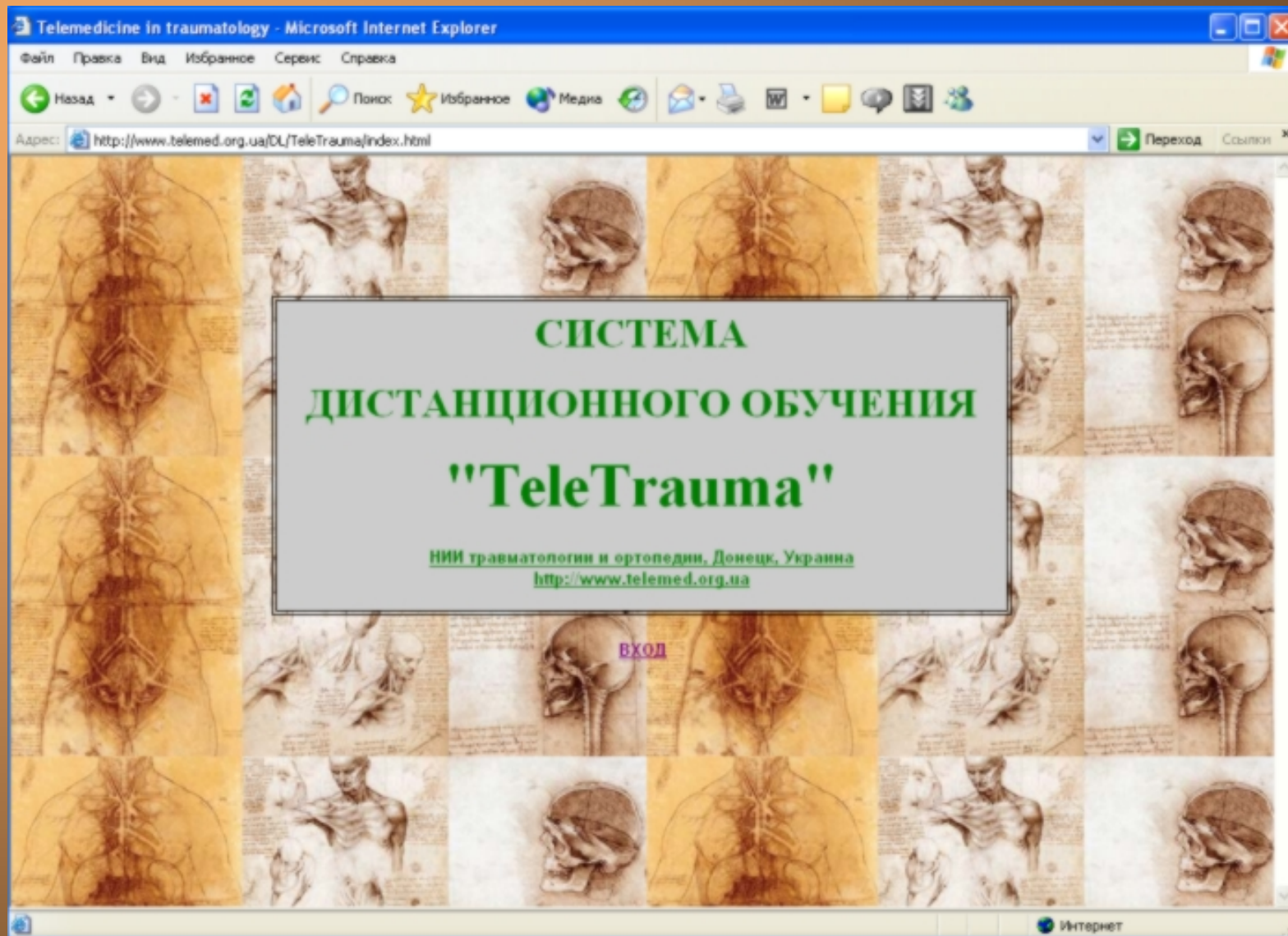
*Department of Informatics and Telemedicine
Donetsk R&D Institute of Traumatology and Orthopedics
Donetsk, Ukraine*

"TELETRAUMA" – INTERNET SYSTEM FOR DISTANT EDUCATION

Vladimir Klymovytskyy, M.D., Professor
Anton Vladzymyrsky, M.D.



*...When studying sciences examples it
is more useful than rules...*
I. Newton



**“TeleTrauma” - Internet System for Distant
Education
The Titul Window**

“TeleTrauma”

- simple technology** (hypertext, html)
- well-known interface** (“looks like Internet”)
- two ways for use** (on-line via WWW, off-line via CD)

“TeleTrauma”



CD

face-to-face education



WWW

distant education



Link

<http://www.telemed.org.ua>

Direct Link

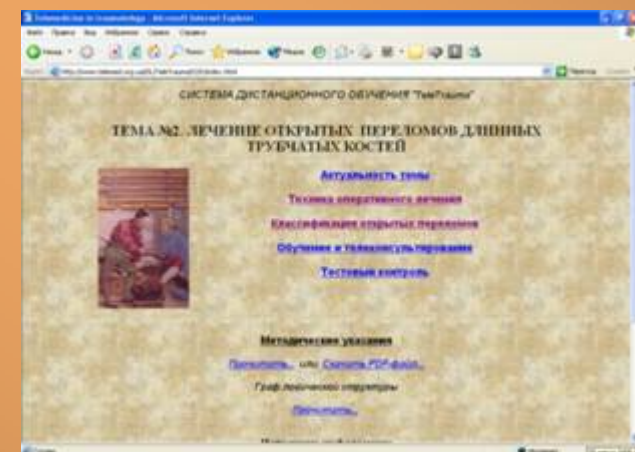
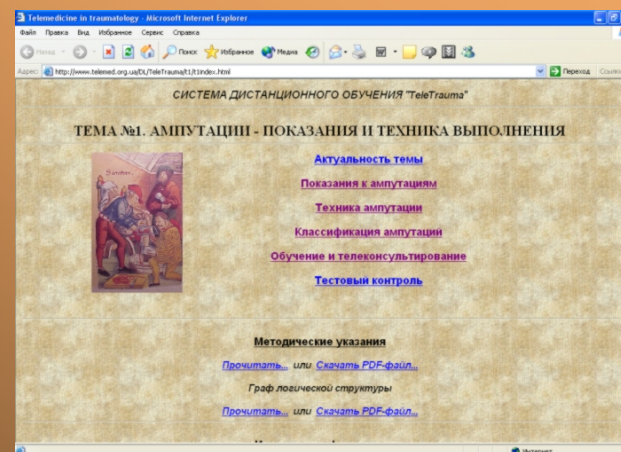
<http://www.telemed.org.ua/DL/index.html>

"TeleTrauma"

Environment/shell



Educational blocks



Basic sections of each block:

- **methodical instructions**
- **educational information** (multimedia books and atlases, additional illustrative material, course of diagnostic and medical procedures as the illustrated html-document and presentations, the list of thematic resources the Internet)
- **teleconsultation and dialogue with the teacher** by e-mail
- **test control** (educational tests with the explanatory of correctness of answers, control tests)
- **References** and additional Internet **links**

We have developed 2 blocks

Amputations – indications
and surgery



Treatment of the open
fractures of the long bones



Also 2 blocks in progress...

Plate osteosynthesis
Posttraumatic osteomyelitis

“TeleTrauma” – Block’s Main Window (upper part)

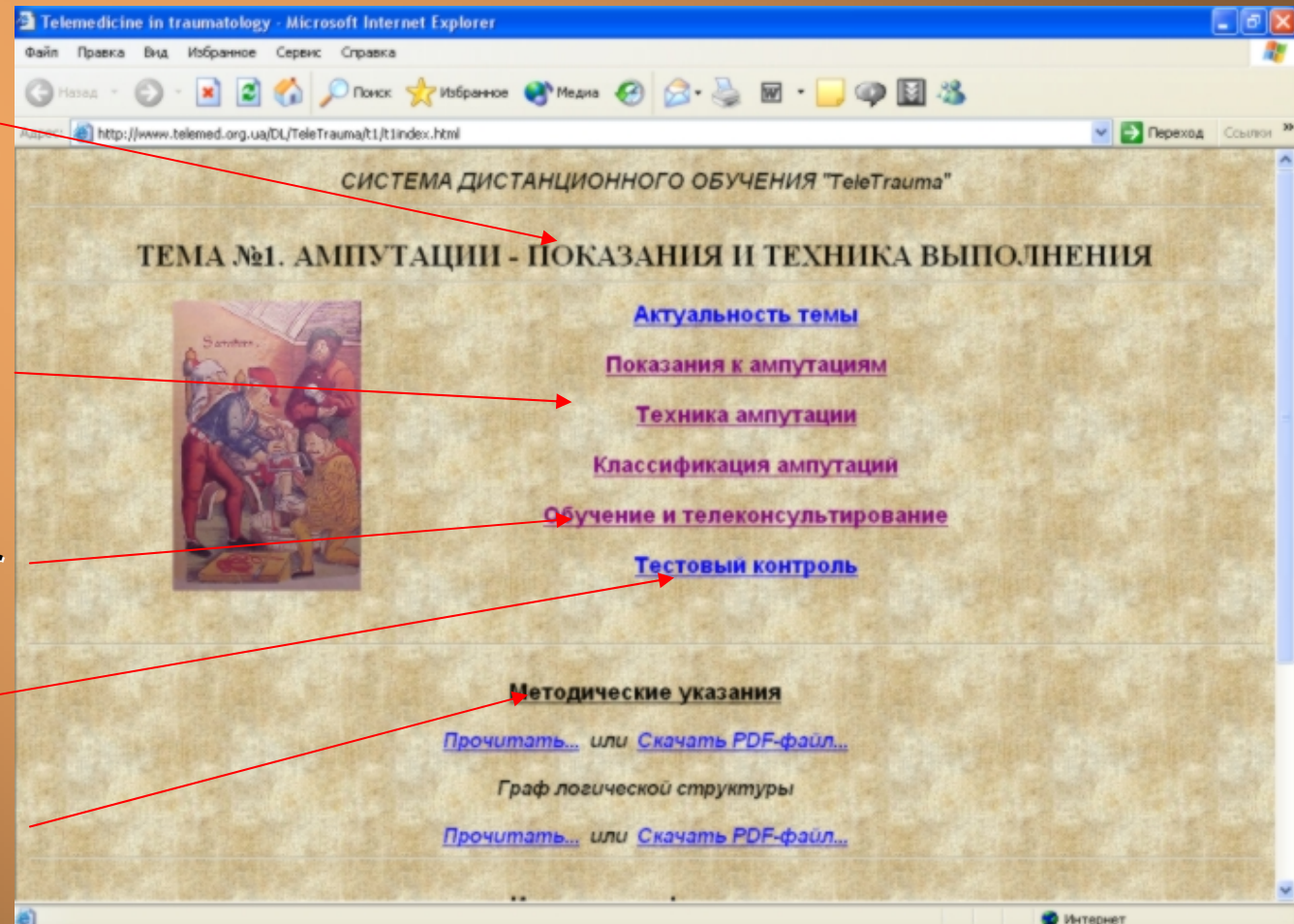
**Titul “AMPUTATIONS –
Indications and Surgery”**

Educational information
(introduction, indications,
classification, surgery)

**Teleconsultation and
dialogue with the teacher
by e-mail**

Test control

Methodical instructions

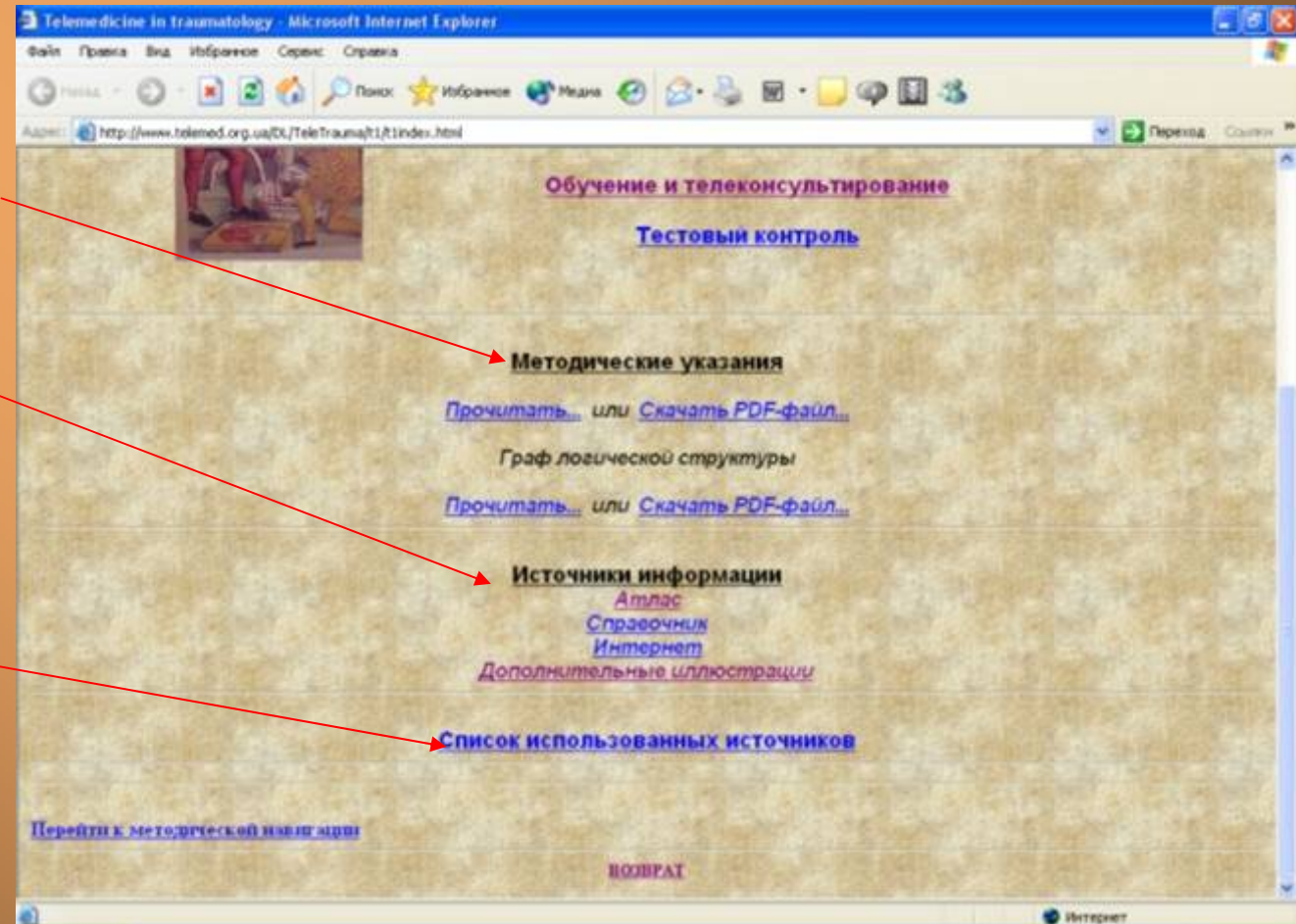


“TeleTrauma” – Block’s Main Window (lower part)

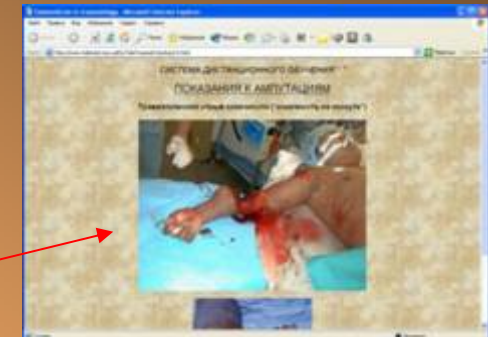
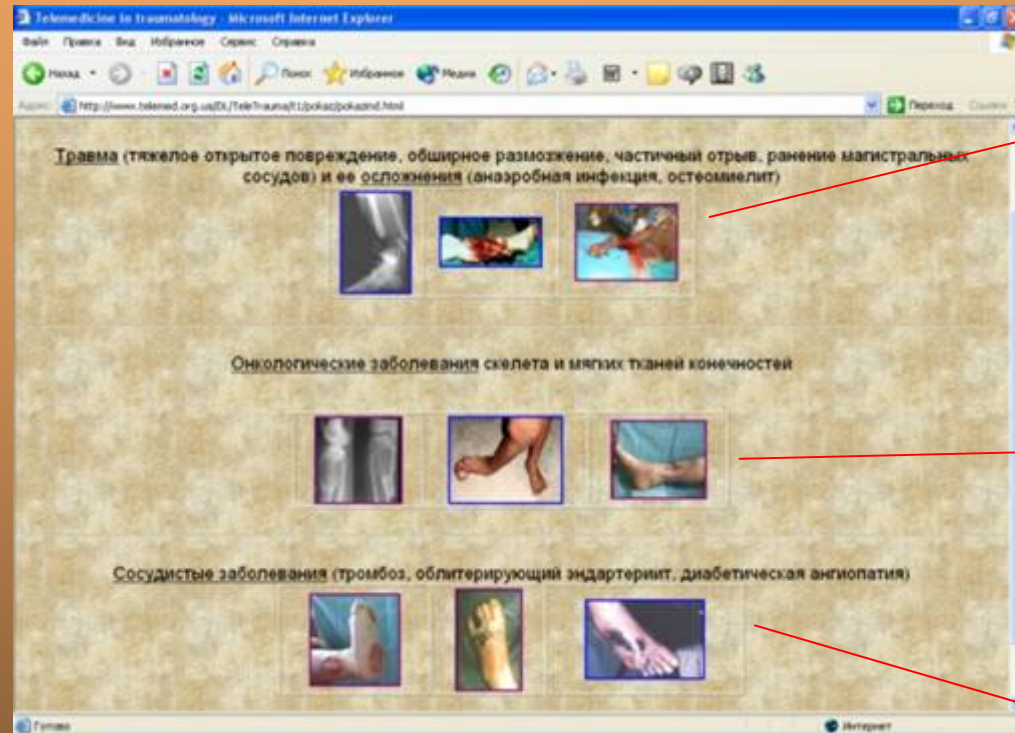
Methodical instructions

Additional information
(multimedia books and
atlases, additional
pictures, Internet links)

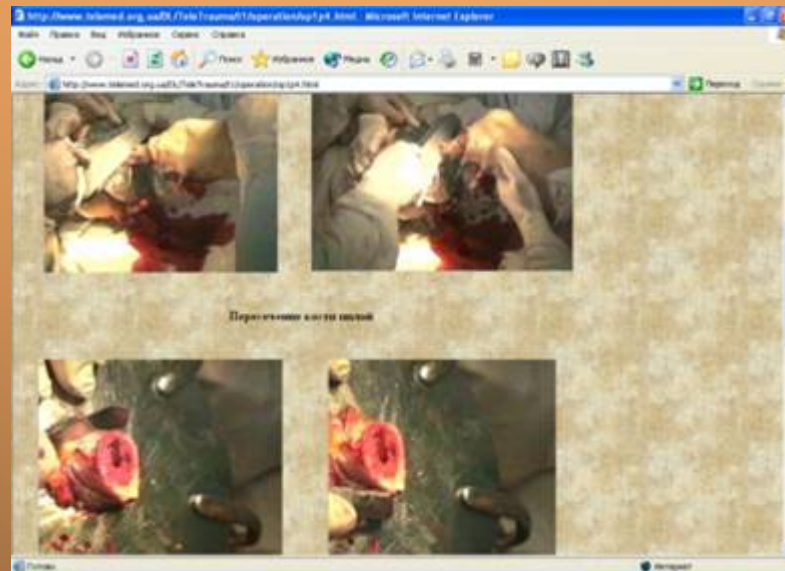
References



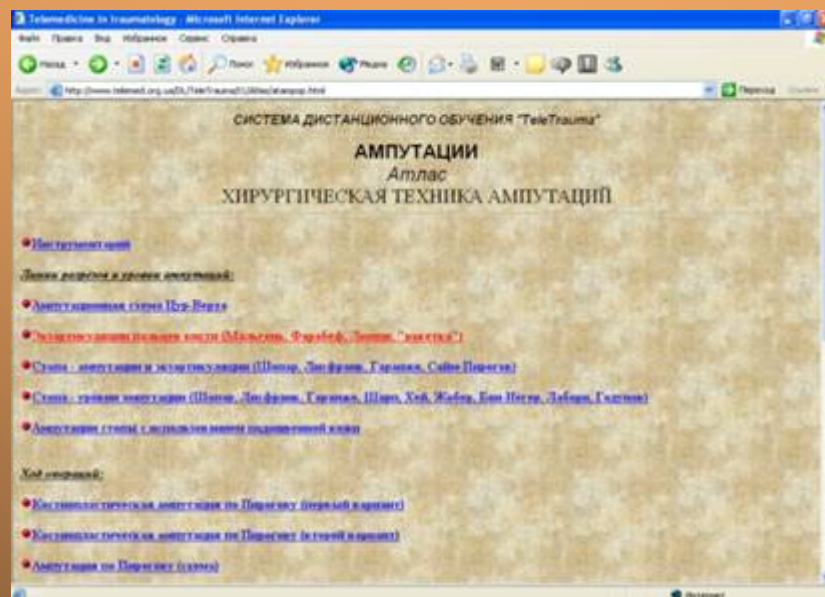
“TeleTrauma” – Indications for Amputations



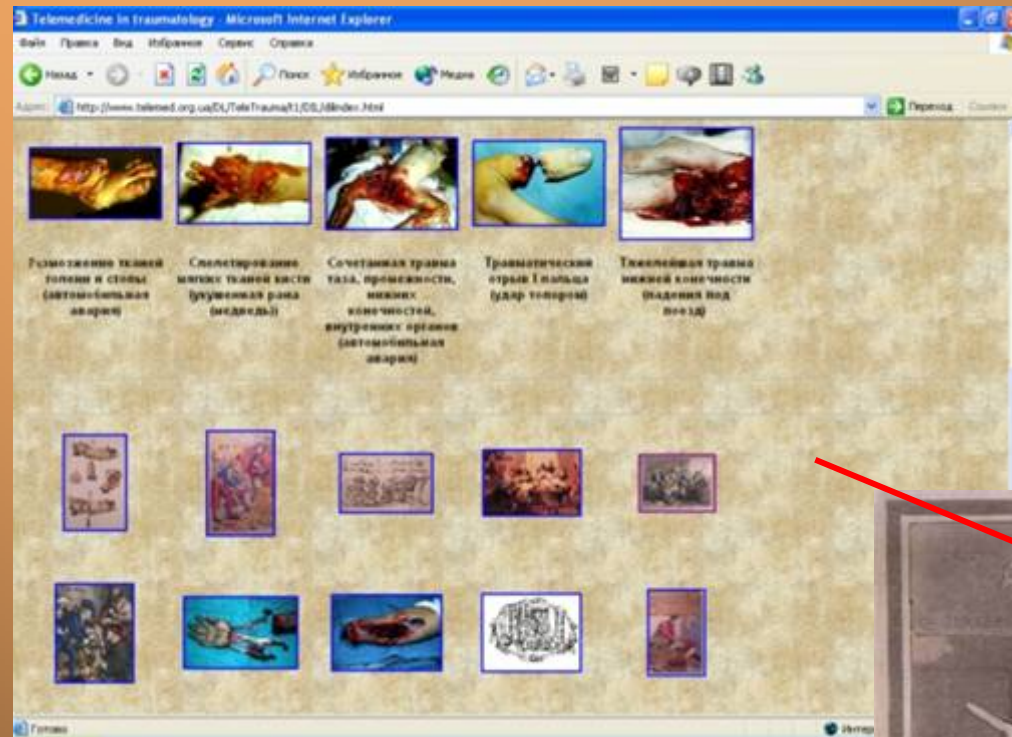
“TeleTrauma” – Surgery for Amputations



“TeleTrauma” – Additional Atlas for Amputations

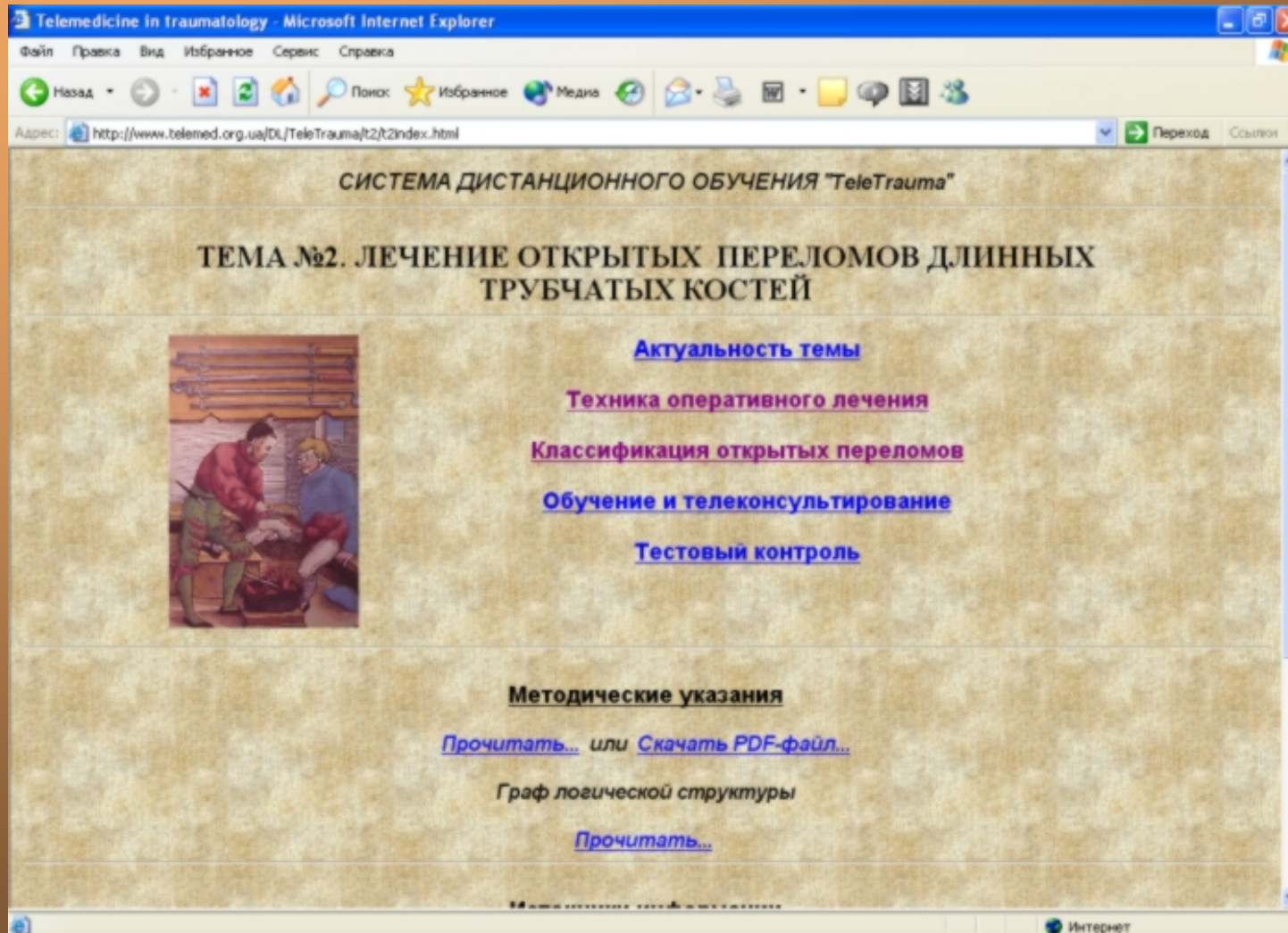


“TeleTrauma” – Additional Pictures for Amputations



“TeleTrauma” – Block’s Main Window

Titul: “TREATMENT OF OPEN FRACTURES OF THE LONG BONES”



“TeleTrauma” – Classification for Open Fractures

Telemedicine in traumatology - Microsoft Internet Explorer

Адрес: http://www.telamed.org.ua/DL/TeleTrauma/2/Classif/Classif.html

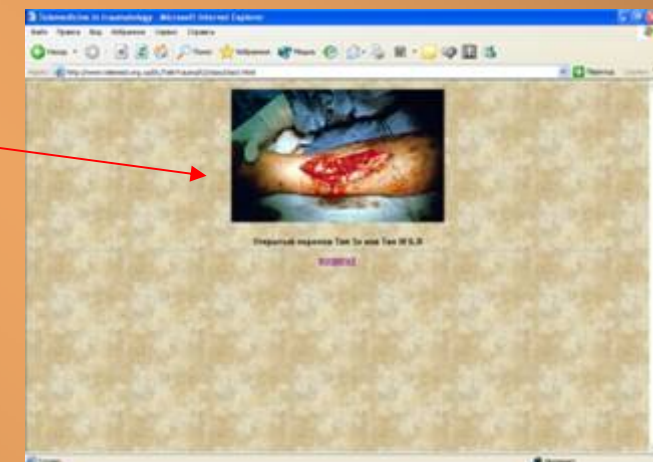
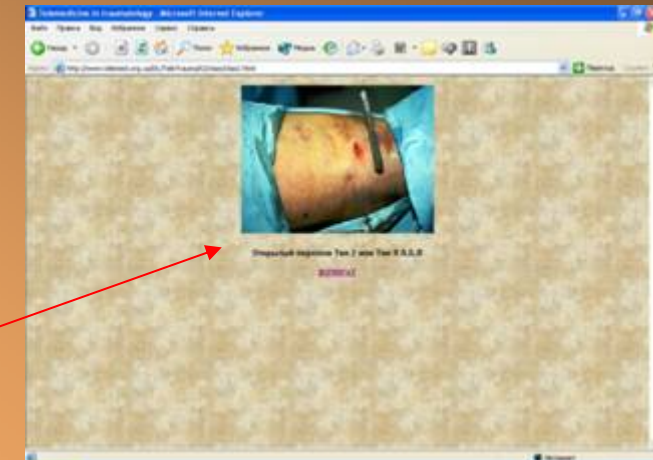
КЛАССИФИКАЦИЯ ОТКРЫТЫХ (НЕОГНЕСТРЕЛЬНЫХ) ДИАФИЗАРНЫХ И МЕТАФИЗАРНЫХ ПЕРЕЛОМОВ ДЛИННЫХ ТРУБЧАТЫХ КОСТЕЙ КАПЛАНА-МАРКОВОЙ

(ПО КН. КАПЛАН А.В. "ПОВРЕЖДЕНИЯ КОСТЕЙ И СУСТАВОВ", М. МЕДИЦИНА, 1979)

Локализация перелома	Верхний или нижний метафиз. Верхняя, средняя или нижняя треть диафиза.		
Вид перелома	Поперечный, косой, винтообразный, крупнооскольчатый, мелкооскольчатый, двойной и др. (без смещения и со смещением отломков)		
Характер повреждения (вид) раны кожи и подлежащих тканей *	Размер раны		
	I Точечные	II Средние	III Большие
	до 1,5 см	2-9 см	10 см и более
A	IA	IIA	IIIA
B	IB	IIB	IIIB
B	IV	IV	IV

IV Крайне тяжелые

* А – ограниченное повреждение мягких тканей, при котором жизнеспособность их не нарушена или мало нарушена, например при колотых, рубленых ранах или ранах, возникающих от разрыва или попадания;
Б – повреждения мягких тканей средней тяжести, жизнеспособность которых полностью или частично нарушена в ограниченной зоне; чаще всего это ушибленные или раненые раны.



“TeleTrauma” – Surgery for Open Fractures



“TeleTrauma” allows to carry out:

-education/training

(studying of the thematic information)

-test-training on algorithm "pyramid"

(the repeated decision of test tasks with an automatic explanation of correctness of each answer)

-control testing

(the decision of test tasks with definition of quantity of right answers and exhibiting of an estimation)



THANK YOU VERY MUCH!