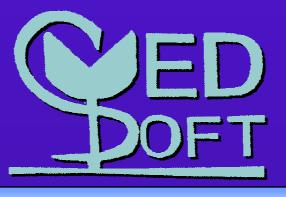
Institute of Clinical Biochemistry and Laboratory Diagnostics 1st.Faculty of Medicine, Charles University, Prague General Faculty Hospital, Prague

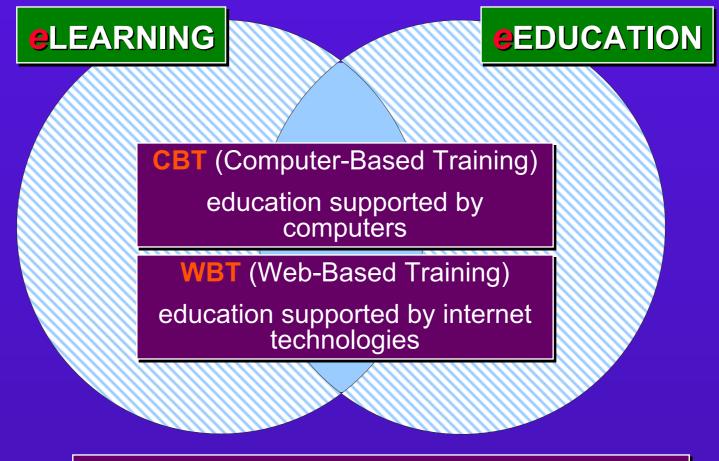
Kocna Petr http://www1.lf1.cuni.cz/~kocna/pkweb1.htm



DISTANT EDUCATION THEORY AND PRINCIPLES "Who - What - Why"



MEDSOFT 2005, Beroun - May 4. 2005



elearning could be understand as multimedial support of educational processes utilising modern information and communication technologies to enhance and optimize education.

- It is the FLEXIBILITY to learn on your own schedule.
- It is being RESPONSIBLE for creating and maintaining your own schedule for reading, studying, completing assignments, and participating in group discussions.
- It is the OPPORTUNITY to develop knowledge COLLABORATING with other students.
- It is an ENVIRONMENT where the instructor will function as a GUIDE, mentor and/or facilitator.
- It is an environment where notes and/or lectures will be document SUMMARIES used to guide you through the text, assignments, and discussion threads.

Online Distance Education Orientation

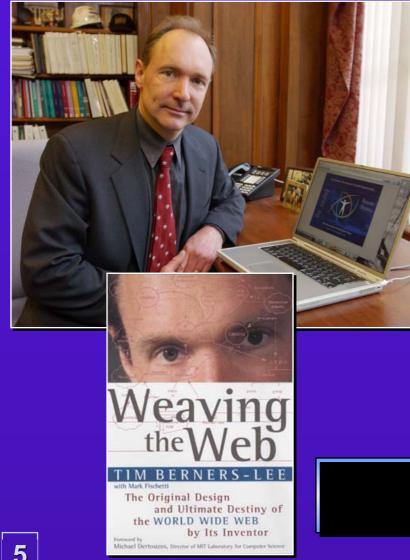
http://intranet.msbcollege.edu/distance_ed/1st_Power%20Point%20Document %20Online_Distance_Education_Student_Orientation.ppt

DISTANT EDUCATION - PERSONS

> 1837	starting time of distant education
	Isaac Pitman, theory of stenography,
	post-mailed corresponding courses
> 1895	Barchese Guglielmo Marconi, cordless telegraph,
	distribution of audio-info
> 1923	Vladimír Zworykin, vacuum-tube, TV founding father,
	distribution of audio/video-info
> 1971	Intel, microprocessor, PC, starting time of e-Mails
> 1991	Tim Berners-Lee, World Wide Web (www),
	Internet progress, web electronic education (WBT)
> 1999	e-Learning, starting time of educational web sites

III. National conference of Distant education in Czech republic "Present and Future - E-Learning in DiV"Mgr. David Nocar - Center of Distant Education, University, Olomouc

Tim Berners-Lee, WWW INVENTOR



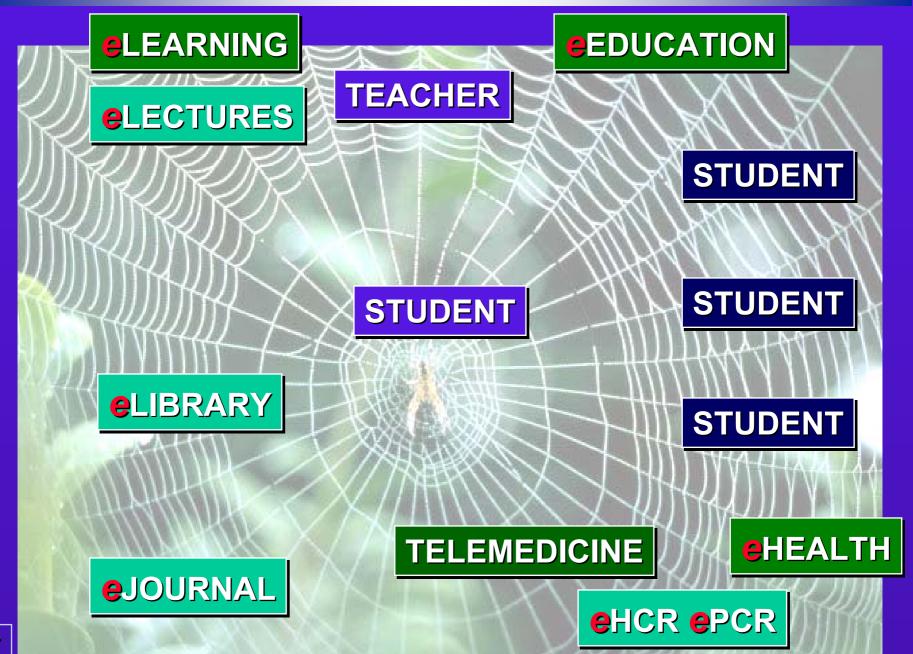
TIM BERNERS - LEE

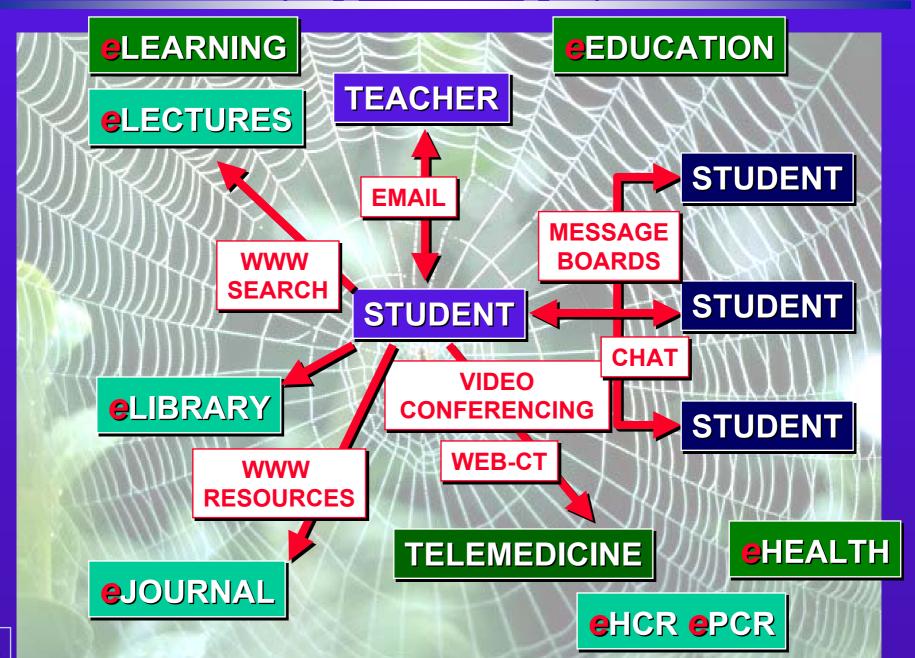
1955 BORN IN LONDON (8.6.) 1973-1976 OXFORD UNIVERSITY 1984 CERN - GENEVE 1990 CREATE WORLD-WIDE-WEB 1994 FOUNDED W3C CONSORTIUM 1999 LAB.COMP.SCI.ARTEF.INTELL. MASSACHUSETTS INST.TECHN. 2004 MILLENIUM TECHNOLOGY PRIZE

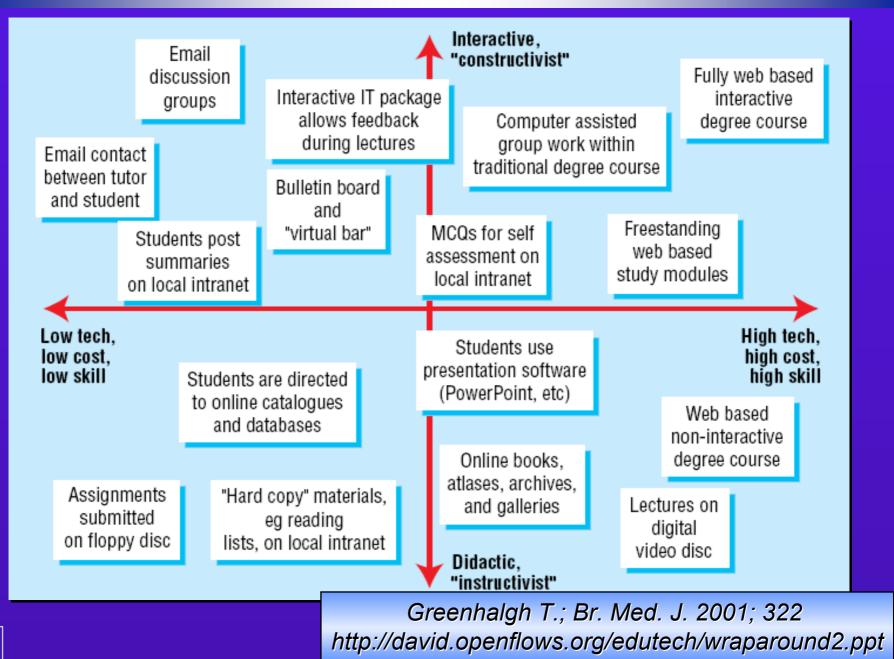
DISTANT EDUCATION - TECHNOLOGY

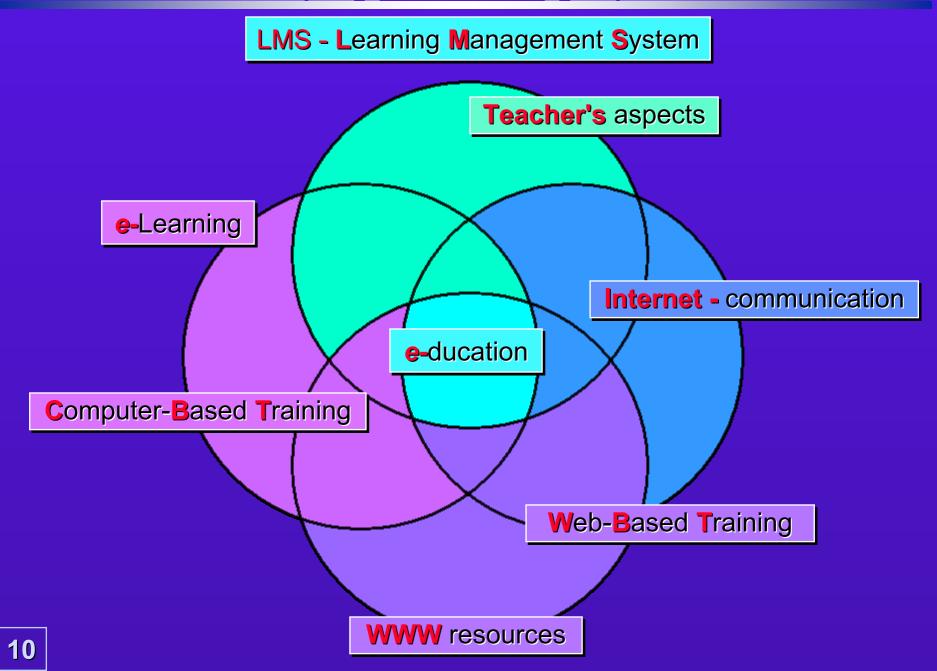
- > 1890's Correspondence Courses emerged
- 1922 WHA Radio School of the Air
- > 1950's Educational Television
- > 1960's Educational Telephone Networks
- > 1970's Videotape
- > 1980's Teleconferences
- > 1990's Videoconferencing, WWW, Email, Integrated courseware
- 2000's Streaming multi-media and black cable
- > 2000 > ... Electronically networked learning communities

Distant learning, knowledge translation and new technology: "Wrap around" models for development in continuing health professional education David Patrick Ryan, Ph.D., University of Toronto, May 27, 2002 *http://david.openflows.org/edutech/wraparound2.ppt*









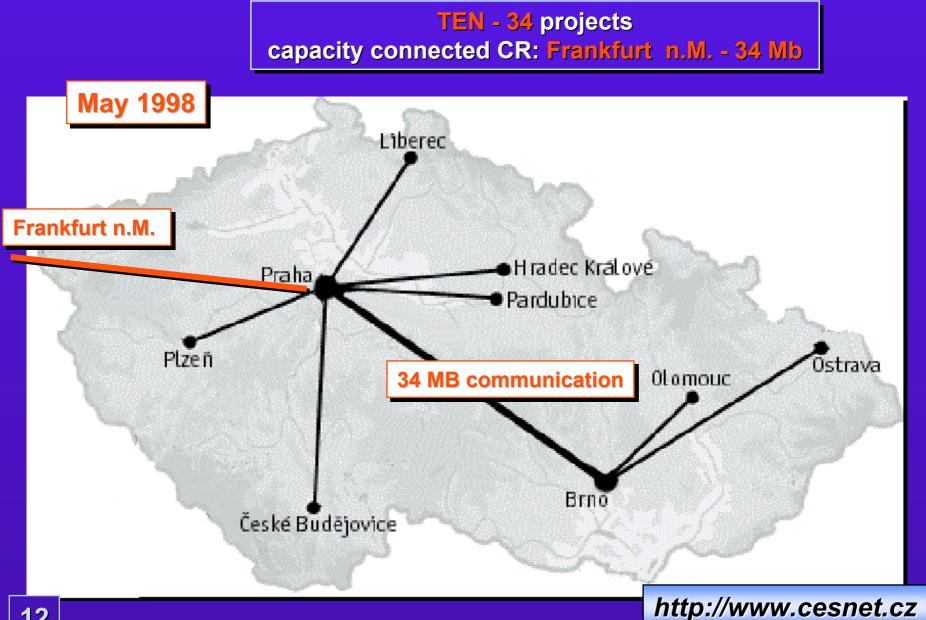
TECHNOLOGY - INTERNET - EDUCATION



CZECH PROJECT BASED ON THE INTERNET COMMUNICATION, DESIGNED FOR EDUCATION, STUDIES, VIDEOCONFERENCING, AND D-LEARNING

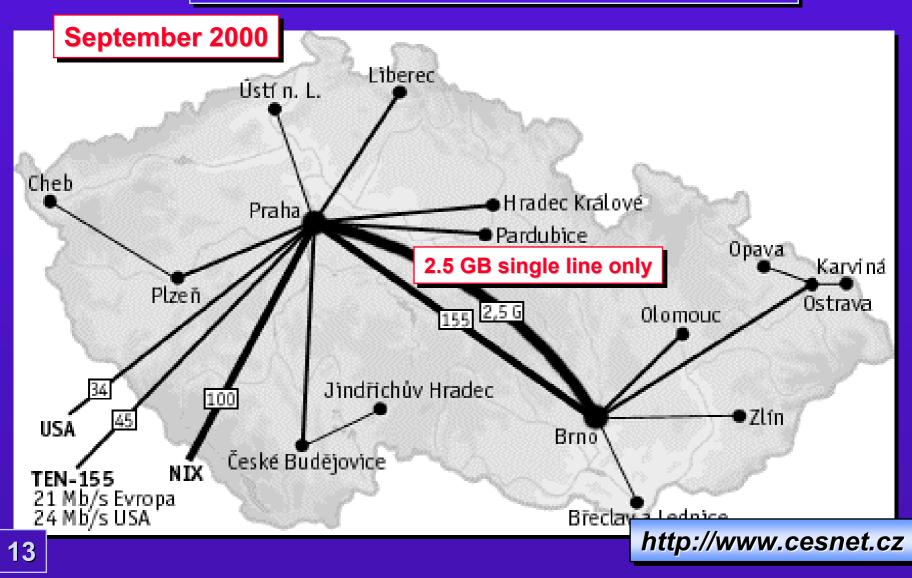
Video Conferencing TEN-34 CZ project investigators

Gruntorád J. 1998, Computer Networks and ISDN Systems, 30, 1663



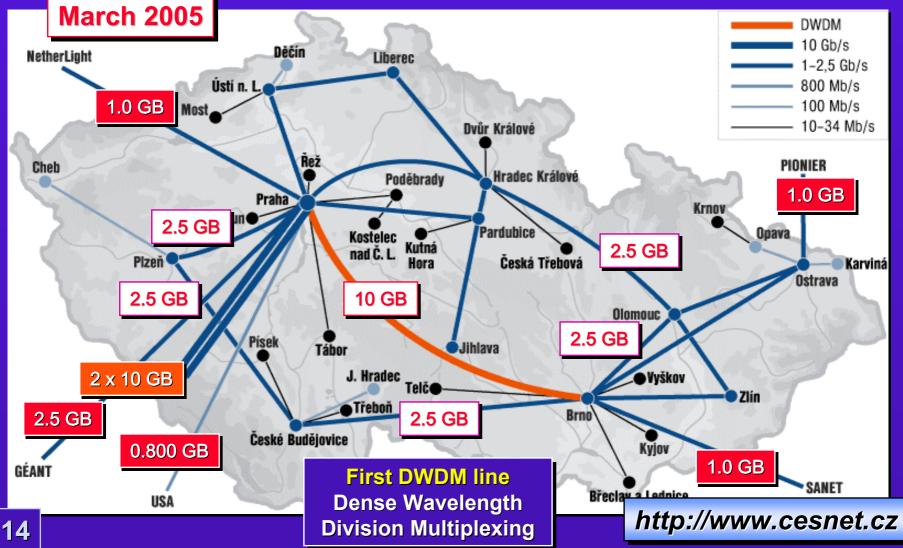
Kocna P.

TEN-155 projects capacity connected CR: TEN, NIX, EBONE - 175 Mb

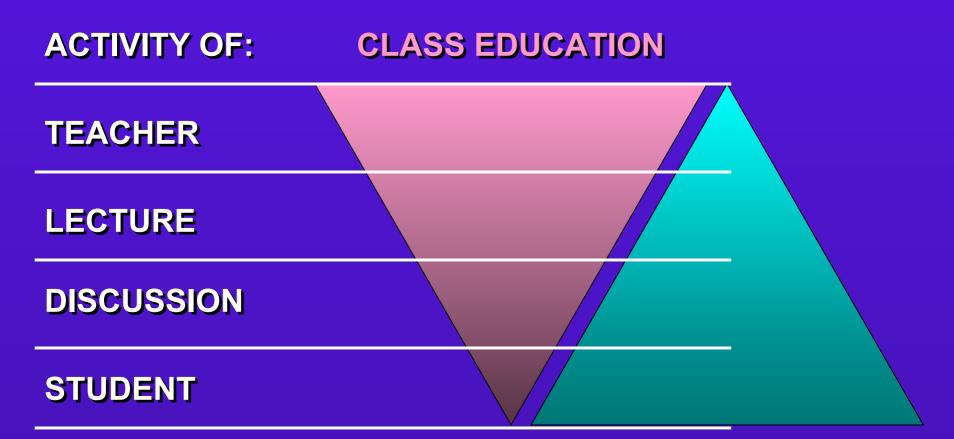


Kocna P.

GEANT-CESNET 2 projects capacity connected CR: - 2 x 10 GB NIX, GEANT, TeleGlobe ,NetherLight, SANET, Pionier



PEDAGOGICAL ASPECTS



DISTANT EDUCATION

 ▶ 1 ▶ 7 ▶ 5 	undergraduate study program postgraduate study program program of specialisation
> 2	clinical cases
> 1	multiple-choice questions
> 1	E-mail teaching
> 1	electronic books
> 6	EQA national program
≻ 10	lectures
> 34	societies of Clinical Biochemistry (countries)
≻ 24	societies with Website on the Internet
≻ 14	societies with part of website devoted to "Education

IFCC Committee on Education and Curriculum Development and Working Group on Distance Education Meeting Minutes May 14 – 17, 2004 Sousse Tunisia

WWW - DATA RESOURCES

WWW means - World Wide Web WWW could be - Who, What, Why ?

For many teens, the Internet has replaced the library as the primary tool for doing research

"The Internet and Education". Findings of the Pew Internet & American Life Project, September 1, 2001, http://www.pewinternet.org

 Less than half (48%) feel confident in their ability to find information essentially, in the skills needed to research a topic
 A Report to Stakeholders on the Conditions and Effectiveness of Postsecondary Education." Change 33:3 (May/June 2001), p. 29.

More than 31% of all respondents use Internet search engines to find answers to their questions. However, people who use Internet search engines express frustration because they estimate that half of their searches are unsuccessful

"OCLC White Paper on the Information Habits of College Students."June 2002, p. 2. http://www2.oclc.org/oclc/pdf/printondemand/informationhabits.pdf

8 633



Google	92 700
Yahoo	29 000
PubMed	104
Scirus	161
Google	620 000
Yahoo	225 000
PubMed	223 000
	— — — ·
Scirus	39 037
Google	150 000
Yahoo	57 200
PubMed	42

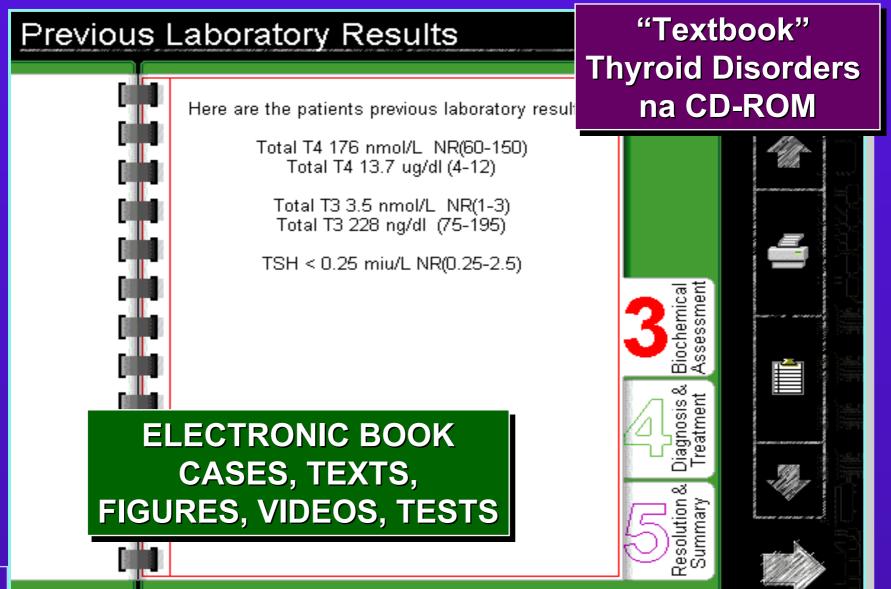
Scirus

pancreas cancer tumor marker pancreas cancer tumor marker pancreas cancer tumor marker pancreas cancer tumor marker

colorectal cancer screening colorectal cancer screening colorectal cancer screening colorectal cancer screening

"colorectal cancer screening" "colorectal cancer screening" "colorectal cancer screening" "colorectal cancer screening"

CBT - COMPUTER EDUCATION





"Textbook" Thyroid Disorders on the CD-ROM

ELECTRONIC

ON-LINE

INTERACTIVE

TEST

Which of the these tests will assist in making a definitive diagnosis ?

Click on the check boxes to select tests. Then click on the OK button to show the test results.



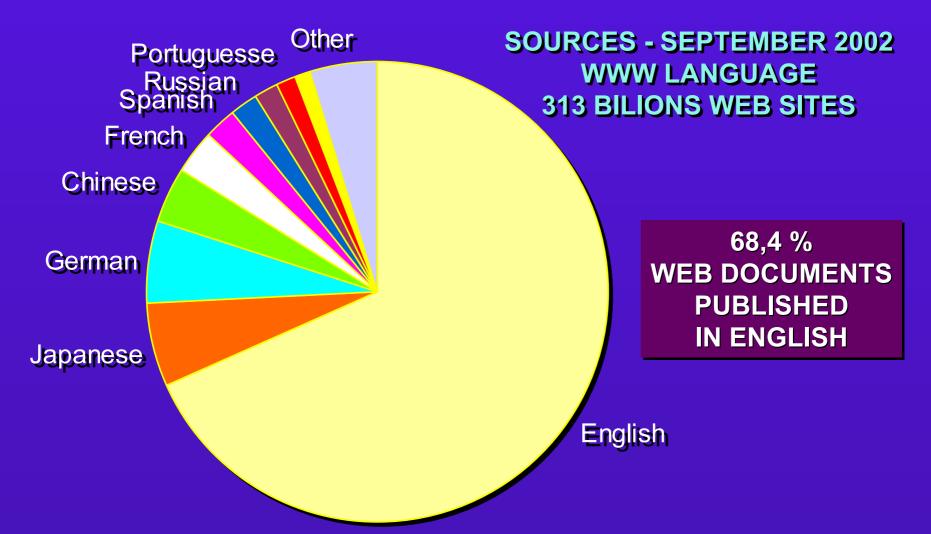
- Total T4
- Total T3

TSH

- Thyroid Peroxidase Antibodies
- Antithyroglobulin antibodies
- RAI test Uptake of radioactive iodine
- TRH test

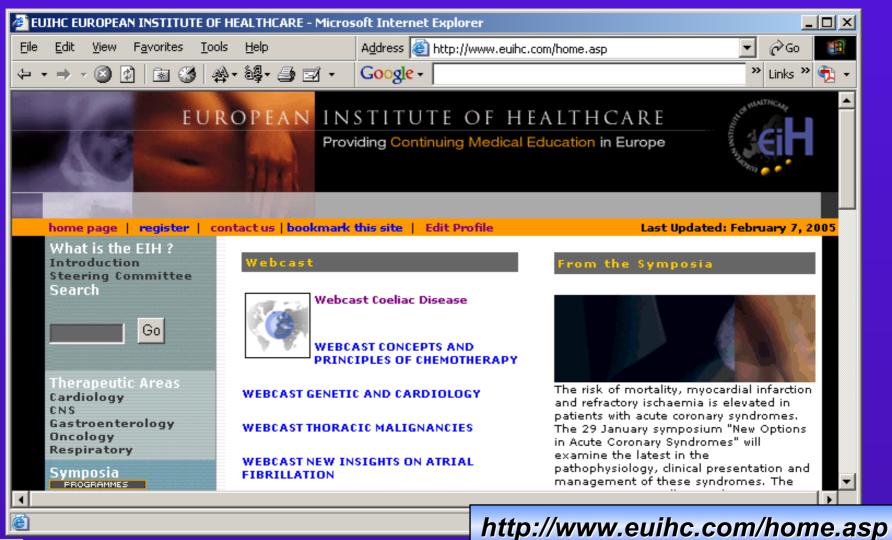


LANGUAGE of WWW DOCUMENTS

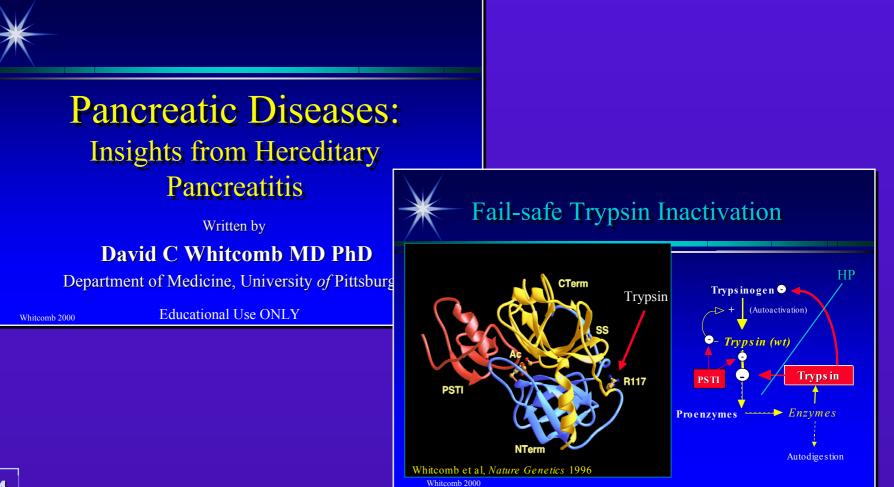


http://global-reach.biz/globstats/index.php3

WBT - WEB BASED TRAINING



POWER-POINT PRESENTATION - DECIDED FOR EDUCATION PANCREATIC DISEASES PROF. WHITCOMB - PITTSBURGH



CONCLUSIONS

Many people have touted the ability of e-Learning to provide information "anyone, anytime, anywhere". We believe that true power of e-Learning will be in its ability to bring the right information and skills, to the right people at the right time.

B. W. Ruttenbur

Ruttenbur, B., Spickler, G., Lurie, S. (2000). eLearning: The Engine of the Knowledge Economy. Published by Morgan Keegan & Co., July 6. 2000, 109pp. (1.1MB) http://www.masie.com/masie/researchreports/elearning0700nate2.pdf

