



MEDICAL INFORMATION SPECIALIST AS TEACHER TEACHING SEARCHING SKILLS

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(All the pictures are picked from Google picture gallery)

WORK OF INFORMATION SPECIALISTS HAS CHANGED

- Information user attitudes are going towards end-user literature searching
- In medical field the doctors have to apply the most recent information and knowledge to patient care. This demands excellent literature searching skills
- Information specialists are crucial agents in training and providing end-user a
- Do the library professionals have enough pedagogical skills?

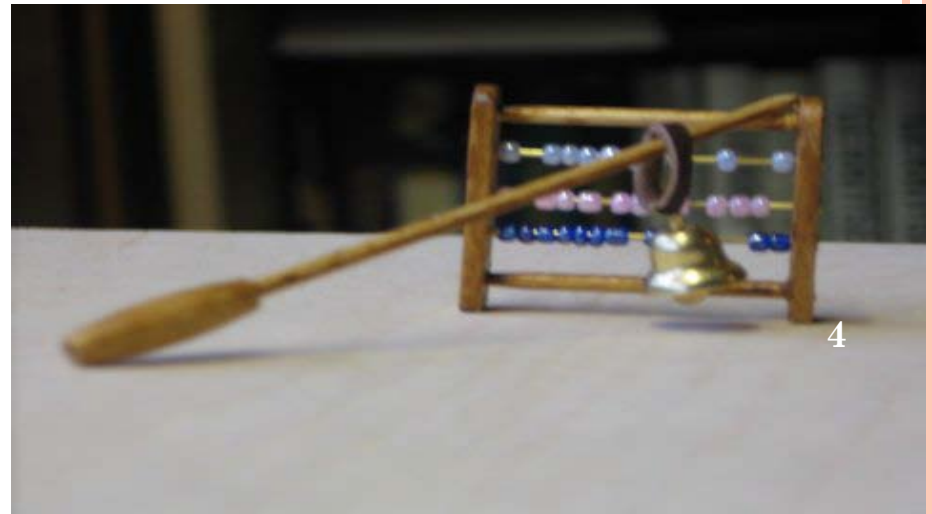


INFORMATION RETRIEVAL SKILLS AND PEDAGOGY

- Teaching library professionals should know at least some basics of learning theories and pedagogical models
- Is the teaching still based on the "good old" behavioristic theory: the focus learning is on the teacher?
- Current view of learning is based on constructivism, the teacher's role is only to act as a facilitator who encourages students to construct knowledge for themselves (learner-centered teaching)
- There are a lot of pedagogical models to realize effectively the learning process
- Do we library professionals know the theories and models?

THE AIM OF THE SURVEY

- The aim of this survey: to find out the amount, quality, and knowledge of training search skills mostly in Finnish medical education
- What kind of teaching methods are used?
- Do the library professionals have any pedagogical studies and what are the attitudes towards developing the pedagogical skills?
- After analysis of the results the ways of developing search skills training is discussed





THE METHODS IN THE SURVEY

- In the questionnaire there were nine open-ended questions with possibility to tell personal opinions and views
- There were altogether 14 respondents:
 - The nine Finnish respondents represented all the medical university libraries in Finland (5 libraries)
 - There were five randomly chosen foreign colleagues as well (Sweden, Norway, England and Belgium)
 - ja Bergen), Englannista ja Belgiasta.

THE NINE QUESTIONS IN THE SURVEY-QUESTIONNAIRE

1. The amount of search skills training and the timing in medical studies?
2. Credits and searching skills studies?
3. The learning environments?
4. Teaching methods and pedagogical models used?
5. Integrating search skills training in the medical curriculum?
6. Information retrieval training to practicing doctors?
7. Proportion of search skills training in the work-time of information specialists?
8. The knowledge of pedagogy and pedagogical skills?
9. Attitude toward pedagogical education?

THE AMOUNT OF SEARCH SKILLS TRAINING AND THE CREDITS GAINED

- The amount of search skills teaching during medical studies varies from 7 to 10 hours in Finland
- In Swedish Karolinska Institutet the amount is almost one week
- The granted credits varied from 0,7 to 1,5 credit (ECTS) in basic medical education (One credit equals 27
- Information retrieval courses are usually offered at the beginning of medicine studies
- The trend toward distance learning courses is constantly increasing



TIMING THE SEARCH SKILLS TRAINING THE MEDICAL EDUCATION



- Search skills training should be offered gradually and repeatedly during medicine studies according to constructivist learning theory
- It would be ideal to integrate the training in substance –based medical education and in this way practice problem-based learning-theory
- Some reasons for ”scattered” training:
 - Motivation towards the search skills training is growing with approach of master’s thesis
 - User interfaces and search filters are continuously changing
- Web-based distance learning courses could be used to arrange gradual and decentralized training

SEARCH TRAINING FOR PRACTICING DOCTORS – IS THERE ANY?

- Life-long learning is necessary for practicing doctors for giving up-to-date treatment that is based on evidence-based medicine
- Voluntary search skills courses are offered to dissertation writers and researches in Finland
- Unfortunately it seems that health center doctors are almost excluded from the training
- Finnish Medical Society Duodecim has created a reliable and comprehensive health portal with high quality information sources for this purpose.



THE PEDAGOGICAL SKILLS AND KNOWLEDGE OF INFORMATION SPECIALISTS

- 15 to 70% of the work-time of the respondents goes to teaching work
- The respondents had very different backgrounds in pedagogical studies:
 - one had 35 granted credits in pedagogy studies
- - one had 20 credits in university pedagogy
- The rest of respondents had 1-4 days courses connected to pedagogical skills
- Studies in pedagogy and obligatory teaching practice should be included in the qualification of information specialist/librarian



KNOWLEDGE OF TEACHING THEORIES AND PEDAGOGICAL MODELS

- Some taught only by lecturing to large groups
- There seems to be a tendency towards principles of problem-based learning (PBL) and working in small groups
- There should be a transfer from behaviorism to constructivism; from teacher-focused teaching to student-focused teaching
- Students should actively take part in the learning process



ATTITUDE OF INFORMATION SPECIALISTS TOWARD PEDAGOGICAL EDUCATION



- All but one of the respondents considered the pedagogical studies on practical level very important.
- The importance of pedagogical studies that can be directly applied to the teaching work was underlined
- A tailored course of teaching only for library professionals should be considered
- It was suggested that there should be a minimum requirement of the studies in pedagogy in teaching library professionals' qualification

EAHIL'S POSSIBLE ROLE IN DEVELOPING PEDAGOGICAL KNOWLEDGE



- Networking with teaching colleagues was considered important. According to constructivism understanding and learning happens when building knowledge together.
- Professional networking offers a possibility to bench-mark and reflect own professional competence
- A common teaching and presentation material learning center within EAHIL got unanimous support
- Creating common distance learning courses in professional networks got also support.

STUDIES IN PEDAGOGY INCREASE THE QUALITY OF SEARCH SKILLS TRAINING

- Courage to apply new creative pedagogical methods increases
- Teacher moves towards student-centered training
- Library professionals with excellent teaching skills are representative visiting librarians in educational organizations
- Presentation and pedagogical skills strengthen confidence of decision-makers and medical professionals in libraries, librarians and the necessity of their existence.



REFLECTION AND SUGGESTIONS (1

- There should be a minimum requirement pedagogical studies for every teaching information specialist for example 10-20 credits
- A short teaching practice should be obligatory. The feed-back from senior colleagues and students is valuable.
- Closer networking with colleagues is of great importance (master-apprentice learning and benchmarking possibility)
- Discussion groups in the social media – a study circle connected to pedagogical topics (Tiina Heino had a presentation in Estoril on this kind of study circle in Helsinki University)



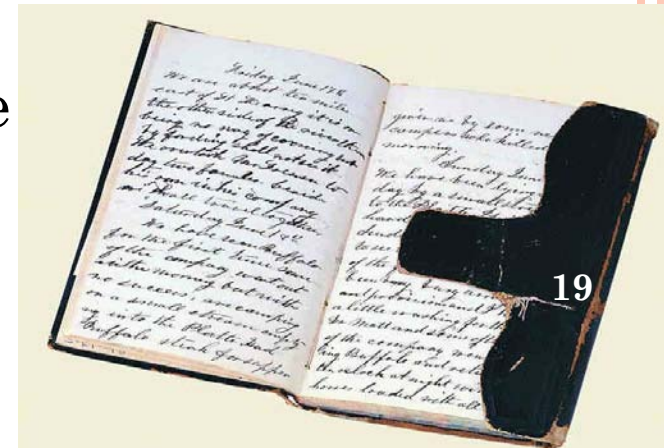
REFLECTION AND SUGGESTIONS(2)

- Networking over professional boundaries (medicine specialists, medical teachers, decision-makers) is important. It is easier to integrate search skills training within basic medical studies in pedagogically a more reasonable way.
- It is necessary to create a collegial network even on international level. It enables an easy way to follow the most recent trends of teaching methods
- EAHIL could start as soon as possible a circle around the pedagogical themes (discussion, literature, teaching material center)



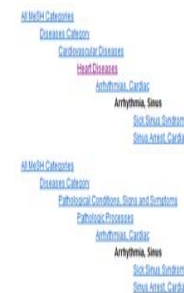
QUALITY ASSURANCE OF ACTIVITIES STARTS FROM THE TEACHER HERSELF/HIMSELF

- Pedagogical skills can be improved:
 - by studying pedagogy and reading good pedagogical literature
 - by learning from the feedbacks from colleagues and students
 - by using time for continuous reflection on own teaching activities
 - by assembling a training portfolio
 - by writing a teaching diary
 - having an open mind and courage for applying new pedagogical models in own work



GOOD TEACHERS HAVE BEEN DESCRIBED:

- Good teachers are good learners
- They are enthusiastic and devoted to the subject they teach
- They understand larger entities of the subject to be taught, linkages and hierarchy of the theme they teach
- They do not only disseminate information but encourage students to thinking and solving problems
- They set clear objectives and use suitable evaluation methods
- Student-centered teaching!



The Finnish Health Portal for doctors:
www.terveysportti.fi

DUODECIM

Duodecim

Kirjaudu sisään Rekisteröidy Unohtuiko salasana? Yhteystiedot Palaute Info



LÄÄKETIETOKANTA

SV-KORVATTAVAT PERUSVOITEET

Lääkärin tietokannat
Sairaanhoitajan tietokannat
Työterveys/Kuntoutus
Hammaslääketiede
Akuuttihoito
Pitkäaikaissairaudet

Lehdet

Jäsenlehdet Lääkärilehti Hammaslääkärilehti NEJM Lancet BMJ Sairaanhoitaja Sairaaterkko

Kirjasto

Käypä hoito	EBM Guidelines	Lääketieteen sanakirja	EKG-tietokannat	Diabetes
Tietoa potilaalle	The Cochrane Library	Lääketieteen termit	Ensihoito-opas	Sydänsairaudet
Hoidon perusteet	Lastenneuvolaopas	Matkailijan terveys	Reuma	Allergiaohjelma

Uutispalvelu Duodecim

- ▶ Epilepsialääkkeen epämuodostumariski riippuu annoksesta
- ▶ Lapsuuden syöpä altistaa uudelle syöväälle aikuisena
- ▶ Lihominen raskauksien välissä altistaa raskausdiabetekselle

Duodecim tiedottaa

- ▶ Fifth EURACT Assessment Course for Trainers in Family Medicine 22.-25.8.2011 - Ilmoittaudu nyt!

Uutta Lääkärin tietokannoissa

- ▶ Keltainen potilas
- ▶ Itsemurhavaarassa oleva viestii toivottomuutta
- ▶ Onko tietoa: auttaako parasetamoli akuutissa migreenissä?

Tiedotteet ja väitöskirjat

- ▶ Antioksidantit, painon muutos ja tyypin 2 diabeteksen riski (Väitöskirjat)
- ▶ Psykkinen kuormittuneisuus sairastuttaa ja lisää keski-ikäisten kuolleisuutta (Väitöskirjat)

Lääketieto

DUODECIM-lehti



Hae Duodecim-lehdestä >>

Uusimman lehden sisältöä



▶ Osaatko tunnistaa työuupumuksen ja hoitaa sitä?
Sen ydinoireita ovat uupumusasteinen väsymys, kynnistyminen ja ammatillisen itsetunnon heikkeneminen.

▶ Sinisten varpaiden oireyhtymä - antikoagulanttihoidon harvinainen

Etsi

Lääkärin tietokannat

Sairaanhoitajan tietokannat

Duodecim lääketietokanta

PubMed

Google



Avoimet työpaikat (51)

- ▶ **Lääkäri, varuskunnan terveysasema Niinisalo** - Puolustusvoimat, Sotilaslääketieteen Keskus
- ▶ **Lääkäri, varuskunnan terveysasema Sodankylä** - Puolustusvoimat, Sotilaslääketieteen Keskus

ICD-10
Toimenpideluokitus

Osoitetietokanta
Avoimet työpaikat
Verkkokauppa

Kelan lomakkeet
SPR Veripalvelu
Koulutus, verkkokurssit
Erikoislääkäriyhdistykset
Eettinen foorumi