

(Asia Pacific Chapter)



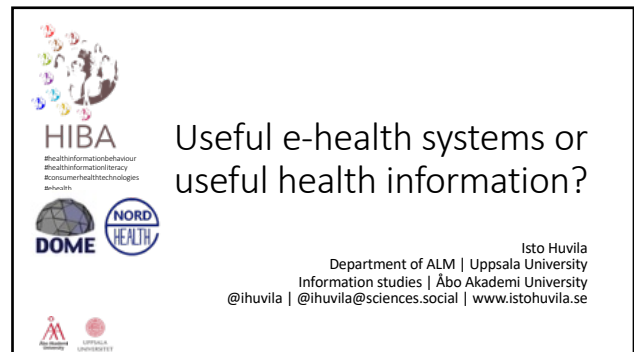
2023 ASIS&T  
Webinar Series  
May 23, 2023

"Useful e-Health Systems or Useful Health Information?"  
(Asia Pacific Chapter)

webinars@asist.org

**asis&t**  
Association for Information Science and Technology

1



HIBA  
#healthinformationbehaviour  
#healthinformationliteracy  
#consumerhealthtechnologies  
#ebhealth

Useful e-health systems or useful health information?

DOME NORD HEALTH

Isto Huvila  
Department of ALM | Uppsala University  
Information studies | Åbo Akademi University  
@ihuvila | @ihuvila@sciences.social | www.istohuvila.se

2

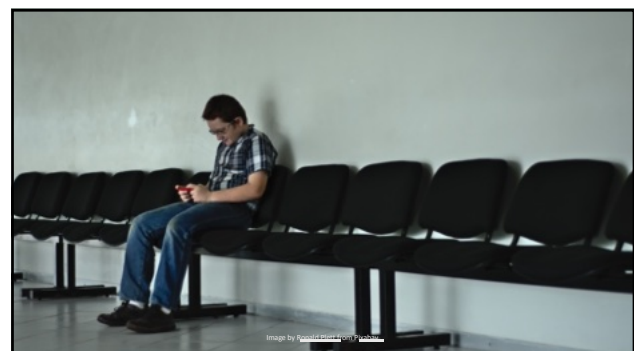


DOME domeconsortium.org

HIBA blogs2.abo.fi/hiba

NORD HEALTH nordehealth.eu

3



4

More research on usability of ehealth than its usefulness and impact

Hirvonen, N.; Enwald, H.; Käsäkoski, H.; Eriksson-Backa, K.; Nguyen, H.; Huhta, A.-M. & Huvila, I. Older adults' views on eHealth services: a systematic review of scientific journal articles. *International Journal of Medical Informatics*, 2020, 135. DOI: 10.1016/j.ijmedinf.2019.104031

5

"74% thought the system is good"

Quote that could be from many studies

6

(Asia Pacific Chapter)

### Quantitative studies typically report positive results

Hirvonen, N.; Enwald, H.; Käsäkoski, H.; Eriksson-Backa, K.; Nguyen, H.; Huhta, A.-M. & Huvila, I. Older adults' views on eHealth services: a systematic review of scientific journal articles. *International Journal of Medical Informatics*, 2020, 135. DOI: 10.1016/j.ijmedinf.2019.104031

7



8

### "No system is an island"

Take home message #1

9



10

### Technological and informational frames

Elderly (older than 66 years) Older adults (51-65 years) Young (up to 50 years)

Huvila, I., Cajander, A., Moll, J., Enwald, H., Eriksson-Backa, K., & Rexhepi, H. (2021). Technological and informational frames: Explaining age-related variation in the use of patient accessible electronic health records as technology and information. *Information Technology & People*. <https://doi.org/10.1108/itp-08-2020-0556>

11

### Information behaviour and literacies

12

(Asia Pacific Chapter)

Technology ≠ Content  
Take home message #2

13

Rich information horizons

Rexhepi, H., Huvila, I., Anfield, R.M., & Cajander, A. (2021). Cancer patients' information seeking behavior related to online electronic healthcare records. *Health Informatics Journal*, 27(5). <https://doi.org/10.1177/1460458221104478>

14

Health information needs change during lifetime: older adulthood as a transitional period

Huvila, I.; Enwald, H.; Eriksson-Backa, K.; Hirvonen, N.; Nguyen, H. & Scandurra, I. Anticipating ageing: Older adults reading their medical records. *Information Processing & Management*, 2018, 54, 394 – 407. DOI: 10.1016/j.ipm.2018.01.007

15

Individuals' health information literacy changes when they get older – but does not decline

Hirvonen, N.; Enwald, H.; Känkäkoski, H.; Eriksson-Backa, K.; Nguyen, H.; Huhta, A.-M. & Huvila, I. Older adults' views on eHealth services: a systematic review of scientific journal articles. *International Journal of Medical Informatics*, 2020, 135. DOI: 10.1016/j.ijmedinf.2019.104001

Enwald, H.; Hirvonen, N.; Kangas, M.; Keränen, N.; Jämsä, T.; Huvila, I. & Korpelainen, R. Relationship Between Everyday Health Information Literacy and Attitudes Towards Mobile Technology Among Older People. Kurbanoglu, S., Boustany, J., Spiranec, S., Grassian, E., Mirachi, D. & Roy, L. (Eds.) *Information Literacy in the Workplace*, Springer, 2018, 450-459.

Huvila, I.; Hirvonen, N.; Enwald, H. & Ahlstedt, R.-M. Kurbanoglu, S.; Spiranec, S.; Ünal, Y.; Boustany, J.; Huotari, M. L.; Grassian, E.; Mirachi, D. & Roy, L. (Eds.) Differences in Health Information Literacy Competencies Among Older Adults, Elderly and Younger Citizens. *Information Literacy in Everyday Life. ECIL 2018. Communications in Computer and Information Science*, Springer, 2019, 136-143.

Huvila, I.; Melli, J.; Enwald, H.; Hirvonen, N.; Ahlstedt, R.-M. & Cajander, A. Age-related differences in seeking clarification to understand medical record information. *Information Research*, 2019, 24, paper i31834

16

Those in good health are at least sometimes more likely to change their habits

Eriksson-Backa, K. & Nguyen, H. Health information-seeking styles and health information literacy in relation to anticipated health-promoting behaviour - results from an online diabetes risk test survey. *International Journal of Telemedicine and Clinical Practices*, 2020, 3, 192-208.

Nguyen, H.; Eriksson-Backa, K. & Enwald, H. Preliminary Results of a Survey on User Opinions and Experiences on an Online Diabetes Risk Test. PACIS 2018 Proceedings., 2018, article 114

17

People with chronic conditions tend to be knowledgeable of their condition

Rexhepi, H., Moll, J., & Huvila, I. (2020). Online electronic healthcare records: Comparing the views of cancer patients and others. *Health Informatics Journal*, 26(4), 2915–2929. <https://doi.org/10.1177/1460458220944727>

18

(Asia Pacific Chapter)

### Major differences between passive and active individuals

Enwald, H. et al. (2018). Relationship Between Everyday Health Information Literacy and Attitudes Towards Mobile Technology Among Older People. In Kurbanov, Kurbanov (Ed.), *Information Literacy in the Workplace* (pp. 450-459). Cham: Springer. [https://doi.org/10.1007/978-3-319-74334-9\\_47](https://doi.org/10.1007/978-3-319-74334-9_47)  
Huвила, J et al. (2015). Patients' Perceptions of their Medical Records from Different Subject Positions. *JASIST*, 66(12), 2456-2470. <https://doi.org/10.1002/asi.23343>  
Huвила, J. (2018). Alternatives to Being Information Literate. In Kurbanov, Kurbanov (Ed.), *Information Literacy in the Workplace* (pp. 813-821). Cham: Springer. [https://doi.org/10.1007/978-3-319-74334-9\\_82](https://doi.org/10.1007/978-3-319-74334-9_82)

19

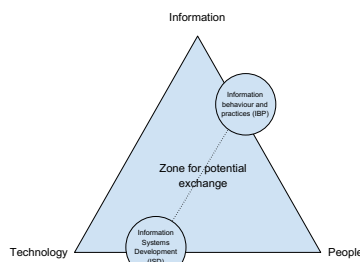
Think of people's information behaviour and practices as a whole – not only in relation to (e)health  
Take home message #3

20

### Information behaviour research informing ehealth design

Huвила, I.; Enwald, H.; Eriksson-Backa, K.; Liu, Y.-H. & Hirvonen, N. Information behavior and practises research informing technology and service design. *Proceedings of the Association for Information Science and Technology*, 2019, 56, 541-545.  
Huвила, I.; Ek, S.; Enwald, H.; Eriksson-Backa, K.; Hirvonen, N. & Kinsäkoski, H. Taking Health Information Behaviour into Account in the design of e-health services. *Finnish Journal of eHealth and eWelfare*, 2016, 8, 153-163.

21



Huвила, I., Enwald, H., Eriksson-Backa, K., Liu, Y.-H., & Hirvonen, N. (2022). Information behavior and practices research informing information systems design. *JASIST*. <https://doi.org/10.1002/asi.24511>

22

Otherwise "digital solutions" might be digital but not solutions



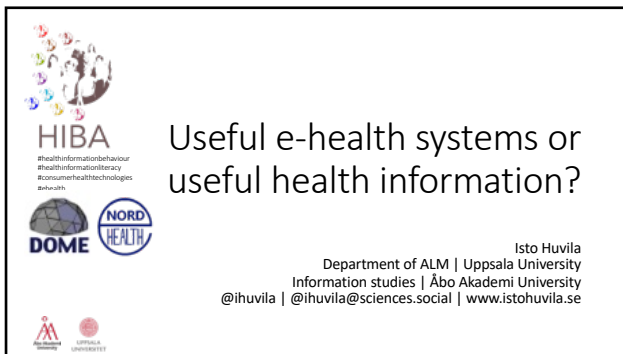
23

Take (health) information behaviour into account

Take home message #4

24

(Asia Pacific Chapter)



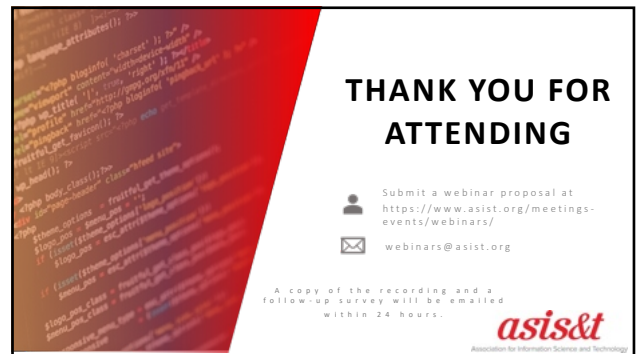
HIBA  
#healthinformationbehaviour  
#healthinformationliteracy  
#consumerhealthtechnologies  
#ehi2023

DOME NORD HEALTH

Isto Huvila  
Department of ALM | Uppsala University  
Information studies | Åbo Akademi University  
@ihuvila | @ihuvila@sciences.social | www.istohuvila.se

ASIS&T UPPSALA UNIVERSITY

25



THANK YOU FOR  
ATTENDING

Submit a webinar proposal at  
<https://www.asist.org/meetings-events/webinars/>

webinars@asist.org

A copy of the recording and a follow-up survey will be emailed within 24 hours.

asis&t  
Association for Information Science and Technology

26