

What we know (from systematic reviews)

- Digital education seems to be more effective than traditional education in improving disease-related knowledge and skills.
- mLearning is effective as traditional learning or possibly more so in acquiring knowledge
 - Dunleavy 2019
- Knowledge, skills and attitudes of trained practicing physicians were at least as good in digital education approaches as self-directed learning and blended-learning approaches
 - George, 2019
- Satisfaction of learners was at least at the same level in digital education than in self-directed learning
 - George, 2019
- Digital problem-based learning in health professionals is as effective as traditional PBL and more effective than traditional learning in improving knowledge, and may be more effective than traditional PBL and traditional learning in improving skills.
 - Car, 2019



We Turn The Tables

How The COVID-19 Pandemic Might Help to Improve
our Teaching After The Crisis

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As colleagues worldwide ...



... we had to switch to digital forms of teaching and training – in all courses and programmes

Following the advice from the federal government, universities and therefore also Swiss TPH had to stop ALL face-to-face teaching until the end of the semester (end of May). After that ALL measures of hygiene and social distancing (e.g. 2 meter distance to persons, limit in persons per lecture or seminar room, etc.) are still in place.

Teachers feelings and experiences

- **At the beginning: STRESS!**
- **Many of them not familiar with digital teaching tools – time constraints.**
- **Uncertainty of the reaction of students**
- **How to interact, especially in small group work**
- **“I am missing the direct reactions from students”**

- **Feedback from students in general very positive, even supportive in technical issues**
- **Sometimes better attendance AND more activity from students (especially in group work)**
- **Using platforms and chat rooms for exchange prior and after the sessions**



Student's feelings and experiences

- No chance to meet with colleagues for a tea or coffee – introducing virtual coffee breaks
- Difficulties with internet bandwidth, especially in LMIC
- A full day lecture's series a day is too much – always looking into the screen!



Lengthy

Endless

Continuous

Torture with

Unending

Repetition of

Explanations

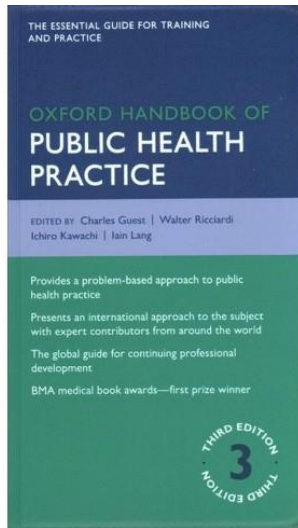
- **Happy that teaching and training continues**
- **Pre-recorded presentations very much appreciated – learning at own pace**
- **Home office has not only advantages**

Does the current situation help to improve our teaching?

We should remember:

- There is still pressing need to implement efficient and cost-effective training to address the worldwide shortage of health professionals.
- Health personnel has to be equipped with the knowledge and skills to deal with digital innovations in healthcare.

Yes, we can learn from the current situation, if..



... we avoid to just add digital technologies to teaching

Digital Transformation in Education is ...



re-thinking everything to set-up education for future growth, with the aims to meet the ever growing demands of your

- students,
- faculty and
- campus

to create a learning environment where everything connects.

Agile Lean Europe Network, 2018

Tasks and possible solutions for the future

- **Investment in digital teaching equipment, hard- and software**
- **Rethinking our teaching and learning approaches – adult learning principles**
- **For teachers and universities: Connect with digital education experts**
- **Use of blended-learning approaches: Learning of facts self-directed, common time in classroom used for in-depth discussions and exercises**
- **Teaching assistants as support: Expert can concentrate on content**
- **Better integration of student's expertise in teaching: creation of a mutual learning for change atmosphere**



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Thank you – and
greetings from
Switzerland