

# WG Digitalisation in Dentistry- E-Health-Artificial Intelligence (WG DD,eH,AI)

Roman Smucler

# prof. Ingrid Pozylo-Kalinowska

Dear .....

The European Regional Organisation Working Group Digitalisation in dentistry – E-health – Artificial Intelligence hereby invites you to participate in a survey regarding undergraduate education in digital dentistry in the dentistry programmes in Europe.

Digital dentistry, although being a relatively new branch in the field of dentistry, already is more and more applied in dental offices throughout Europe and becomes a very important part in dental care. It provides information on diagnostics, but also allows for very precise treatment planning thus increasing success rates and decreasing potential risks and iatrogenic errors.

Therefore knowledge is necessary and with increasing internationalization a quest for common standards of the undergraduate education in Europe is needful.

The results from the survey will be presented as medians and dispersion measures. This information can be used by course leaders as a bench mark when planning, changing, or evaluating the curriculum of the courses in the dentistry programs. In this way it can serve as a valuable tool with a view to achieve correspondence between countries and schools.

The questionnaire includes questions regarding your schedules for different parts of the education on digital dentistry

When digital education is integrated in other courses please make an estimation of time devoted to the various parts of radiology in those courses.

We thank you in advance for contributing to valuable knowledge regarding education in the field of digital dentistry in Europe today.

To participate, please click on the link below.

[.....](#)

Your reply will be treated with confidentiality; it will not be possible to identify your reply when the result is presented. By replying you give your consent to participation in the survey and that the reply can be included in the result.

Your contact information derives from search on the webpage of your university, or has been provided by colleagues at your university, or by colleagues within ERO in Europe. If you think the questionnaire should be answered by someone else in your school, please forward this e-mail invitation to that person.

If you have any questions regarding the questionnaire you can contact ....., at following e-mail address:|

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1. Please choose the most suitable answer concerning the place of education in digital dentistry in your school:
  - A. Education in digital dentistry is included in current curriculum and taught as a separate subject
  - B. Education in digital dentistry is included in current curriculum but the effects of learning are included in different subjects
  - C. There is no education in digital dentistry delivered but there are plans to include it in the curriculum
  - D. There is no education in digital dentistry delivered and there are no plans to include it in the curriculum
2. How many hours in the curriculum are dedicated to digital dentistry education:
  - A. Less than 10
  - B. 10 to 19
  - C. 20 to 29
  - D. 30 to 39
  - E. More than 40
  - F. None of the above
3. Please choose the most suitable answer regarding the form of education in digital dentistry in your school, if applicable:
  - A. Digital dentistry is delivered as mandatory classes
  - B. Digital dentistry is delivered partly as mandatory and partly as elective classes
  - C. Digital dentistry is delivered as elective classes
  - D. Not applicable
4. Please choose all the answers that best describe the education on digital dentistry in your school :
  - A. Education is delivered on the basis of lectures
  - B. Education is delivered on the basis of seminars
  - C. Education is delivered on the basis of practical classes, workshops, hands on etc.
  - D. Not applicable
5. Please choose the answers that describe the facilities for teaching in digital dentistry:
  - A. Dedicated labs in the dental school
  - B. Facilities of dental clinics within the dental school
  - C. Dental offices outside the dental school
  - D. Not applicable
6. Please choose all aspects of digital dentistry taught in your school:
  - A. Dental photography
  - B. Use of X-ray based diagnostic imaging in planning of orthodontic treatment
  - C. Use of X-ray based diagnostic imaging in implant placement planning
  - D. Virtual planning of surgeries
  - E. CAD/CAM technology
  - F. Intraoral scanning
  - G. Applications of artificial intelligence in dentistry
  - H. Not applicable

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7. Please choose all the answers that best describe equipment available for teaching digital dentistry:
  - A. Photographic lab and dedicated equipment (cameras, studio lamps)
  - B. Digital X-ray machine for intraoral radiography
  - C. Digital panoramic X-ray machine
  - D. Cone-Beam Computed Tomography unit
  - E. Software for virtual planning of orthodontic treatment
  - F. Software for virtual planning of implant placement
  - G. Software for virtual planning of surgeries
  - H. CAD/CAM milling machine
  - I. 3D printer
  - J. Intraoral scanner
  - K. None of the above
  
8. How many students are there in your dental school:
  - A. Less than 100
  - B. Between 100 and 199
  - C. Between 200 and 299
  - D. Between 300 and 399
  - E. Between 400 and 499
  - F. More than 500
  
9. In which year education in digital dentistry is delivered (please choose all suitable answers):
  - A. 1<sup>st</sup> year
  - B. 2<sup>nd</sup> year
  - C. 3<sup>rd</sup> year
  - D. 4<sup>th</sup> year
  - E. 5<sup>th</sup> year
  - F. Not applicable
  
10. To which students is digital dentistry delivered in your school (please choose all suitable answers):
  - A. Dental students
  - B. Students in dental technology
  - C. Radiographers
  - D. Not applicable

## **Societies**

[Digital Dentistry Society \(digital-dentistry.org\)](http://digital-dentistry.org)

[eHealth Summit | Virtualized](#)

## **Regulations**

[Digital Dentistry Belgium \(digital-dentistry.be\)](#)

[AI for better health final.pdf \(swelife.se\)](#)

[Denmark is a world leading hub in digital Health solutions \(investindk.com\)](#)

[follow-up-vision-for-ehealth-2025.pdf \(ehalsomyndigheten.se\)](#)

[Report NL eHealth final \(rvo.nl\)](#)

[2021-03-31\\_spotlight-ehealth-in-ireland-social-and-ethical-values-in-irish-policy-on-ehealth\\_en.pdf \(oireachtas.ie\)](#)

[NationalStrategy-for-AI-Discussion-Paper.pdf \(indiaai.gov.in\)](#)

[2022-03-16 PRG Minutes of the meeting.rtf](#)

[FINAL CED reply consultation on AI.pdf](#)

[AI Artificial Intelligence possibilities and risks \(kopie\).pdf](#)

[AIConsult2020\\_10\\_03\\_2020\\_EN\\_23March.pdf](#)

[AI presentation](#)

[CED on AI.pdf](#)

[Consensus Framework on the Digital Transformation of Healthcare.pdf](#)

[DIGITALIZATION AND DENTAL TEAM VF EN](#)

[Draft CED reply to public consultation on the draft Regulation on AI – V.Stathopoulos.docx](#)

[Draft CED reply to public consultation on the draft Regulation on Artificial Intelligence.docx](#)

[ERO Digitalisation in Dentistry](#)

[Image Robot tournage](#)

[OrthodonticsSummaryeHealth](#)

[Report- ERO WG Digitalisation in Dentistry-E-Health-Artificial Intelligence](#)

[Report- ERO WG Digitalisation in Dentistry-E-Health-Artificial Intelligence2022](#)

[Report Working group](#)

[WG Digitalisation in Dentistry-E-Health-Artificial Intelligence](#)

[WG Digitalisation in Dentistry-E-Health-Artificial Intelligence \(kopie\)](#)

[WG Digitalisation in Dentistry-E-Health-Artificial Intelligence-Bucharest](#)

[Zpráva z.workinggroup](#)

[CED Resolutio on AI CLEAN 27Feb.docx](#)

[Digital Services Act 15 07 2020 31.07.docx](#)

[DRAFT CED Resolution on AI- Update 14.10.docx](#)

[DRAFT CED Resolution on AI- Update 14.10 clean.docx](#)

[Draft Meeting Report September 2020.docx](#)

[eSkills healthcare professionals.pptx](#)



## Literature

[Artificial intelligence in healthcare - Wikipedia](#)

[Publications | Digital Dentistry Society \(digital-dentistry.org\)](#)

[Big Data and Digitalization in Dentistry: A Systematic ... - MDPI](#)

[Medical Students' Perceptions towards Digitization and ... - MDPI](#)

<https://www.dentaleconomics.com/science-tech/article/16394539/digital-dentistry-is-this-the-future-of-dentistry>

[Top 10 New Technologies in Dentistry - 123Dentist](#)

[The Modern and Digital Transformation of Oral Health Care: A Mini Review - PMC \(nih.gov\)](#)

[Dentistry, e-health and digitalisation: A critical narrative review of the dental literature on digital technologies with insights from health and technology studies | Request PDF \(researchgate.net\)](#)

[Digitization in Dentistry: Clinical Applications - Knihy Google](#)

[Disruptive Innovation in Dentistry: What It Is and What Could Be Next - T. Joda, A.W.K. Yeung, K. Hung, N.U. Zitzmann, M.M. Bornstein, 2021 \(sagepub.com\)](#)

[artificial intelligence in healthcare-final\\_country factsheets.pdf \(digitalhealthnews.eu\)](#)

[The first part: How Should We View 'Teledentistry'? | LSMIP](#)

## Education

[Webinar Digital Dentistry Series | Digital Dentistry Society \(digital-dentistry.org\)](#)

<https://conference.digital-dentistry.org/>

[Digital Dentistry Courses | Institute Of Digital Dentistry | Live Courses](#)

[Online Digital Dentistry Training and Courses | Institute Of Digital Dentistry](#)

[DDS Events | Digital Dentistry Society \(digital-dentistry.org\)](#)

[The Changing World Of Digital Dentistry | Colgate®](#)

[17th CAD/CAM & Digital Dentistry Conference - CAPPmea](#)

[Dentistry Show London 2022 | 7 -8 October | ExCeL London](#)

[Digital Dentistry & Dental Technology 2022 \(dentevents.com\)](#)

[Digital Dentistry Society Congresso Italiano - AIO International Congress \(congressaio.it\)](https://congressaio.it)

[Welcome - Dental Technology Showcase 2022 \(the-dts.co.uk\)](https://the-dts.co.uk)

[AI in Dentistry – innovative technology or new era? - YouTube](#)

[Artificial intelligence in Health \(slideshare.net\)](https://slideshare.net)

[Full article: SERIES: eHealth in primary care. Part 2: Exploring the ethical implications of its application in primary care practice \(tandfonline.com\)](https://tandfonline.com)

[Microsoft Word - Final. Empowering Health Workforce\\_OECD\\_06\\_Nov\\_2020.docx](#)

[digitalisation-and-public-health.pdf \(epha.org\)](https://epha.org)

[83309-Article Text-132986-3-10-20191123.pdf](#)

# What now?

- Open or Restricted list (both?)
- Proceedings – Digests
- Proposals starting from a discussion over Digests
- Something more?

# Budget

- To make Web – and social media – 4000 euro – starting budget
- Office – annual minimal budget – 6000 euro (part time person + material + phones, data)
- Sel-financing (marketing + congress)