

Curriculum Vitae

Dr. med. Jörg-Michael Sigle
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Education and Honors

Doctor medicinae (Academic Title), *magna cum laude*, University of Ulm (1998)

Physician (German State Examination), University of Ulm, Germany (1997)

Medical licensure and examinations

Unrestricted license to practice medicine as M.D. in Germany (Approbation als Arzt, 2001)

Swiss Society of General Internal Medicine (SGAIM) Examination (2019)

United States Medical Licensing Examination (USMLE) Step 1 (1995) and Step 2 (2002)

Professional experience

Since 1991 Professional work in medical IT, patient questionnaires and outcome measurement

2014 - 2015 Clinical residency in Internal Medicine with Dr. Markus Klink and
Rehabilitation Medicine with Dr. Hartmut Hüttemann, Reha Chrischona

Since 2010 Contributions to the Swiss OpenSource medical practice software Elexis

2003 - 2005 Post graduate training at the University of Göttingen, Department of Family Medicine, with Prof. Michael Kochen. – Development of an interactive electronic guideline and an online student feedback system; aggregation and analysis of data from practice IT systems; design of a research project to advance infrastructure, quality oriented work and documentation culture in medical practices; acquisition of major research grants by the German Ministry of Education and Research (BMBF)

2001 - 2002 AiP and clinical residency with Dr. Wolfgang Streibl, General Practitioner, Knittlingen. – Usage of the QL-Recorder in routine care; development of bi-directional xDT and HL7 interfaces, database and web integration, data and process visualization; project with the AOK regarding patient satisfaction and QoL in diabetics, creating and validating an automated workflow for pseudonymized paper questionnaires and high performance scanners

1997 - 1998 Arzt im Praktikum (AiP) and post graduate training at the University of Ulm, Clinical Economics group, with Prof. Franz Porzsolt, Hematologist and Oncologist. – Conception of EBM courses and teaching in Germany and Switzerland

Since 1993 Development of the QL-Recorder at the Cancer Center of the University of Ulm. – Leading to years of scientific consulting, programming and support for QL-Recorder application projects in research, the pharmaceutical industry, and routine care

Since 1983 Photography and graphic design; setup and administration of practice network systems; advanced software development, including TSR programs to operate PCs from a digitizer or other sources, interfaces to medical and industrial devices; computer hardware design

Scientific Awards

Lilly Quality of Life Prize 2009; Poster Prize of the DEGAM annual meeting 2006

Language skills

German and English: business fluent EU GER C2; French: basic command; Grosses Latinum.

Completion of international projects using up to 19 languages and Greek, Cyrillic or Chinese characters.

Scientific publications and contributions to books (examples)

1. Rogausch A, Sigle JM, Seibert AJ, Thüning S, Kochen MM, Himmel W: Feasibility and acceptance of electronic quality of life assessment in general practice: an implementation study. *Health and Quality of Life Outcomes* 7:51 (2009); PMID 19493355
2. Chen TH, Li L, Sigle JM, Du YP, Wang HM, Lei J: Crossover randomized trial of the electronic version of the Chinese SF-36. *J Zhejiang Univ Sci B* 8:604-8 (2007); PMID 17657865
3. Porzsolt F, Stengel D, Sigle J, Eisemann M: Von "Tischlern" und "Bettlern": Sie sollten voneinander lernen. *Dtsch Med Wochenschr* 18:1000-3 (2007); PMID 17457785 — [Of desk-economists and doctors at the bedside: they should learn from each other.]
4. Heidenreich R, Himmel W, Bockmann H, Hummers-Pradier E, Kochen MM, Niebling W, Rogausch A, Sigle J, Wetzel D, Scheidt-Nave C: Elektronische Erfassung von medizinischen Daten in deutschen Hausarztpraxen: Ein Telefon-Survey. *Z Ärztl Fortbild Qualitätssich* 99(9):573-80 (2005); PMID 16398199 — [Electronic recording of medical data in German general practices: a telephone survey.]
5. Himmel W, Kühne I, Chenot JF, Scheer N, Primas I, Sigle J: Evaluation des studentischen Unterrichts in Allgemeinpraxen. *Gesundheitswesen* 66(7):457-61 (2004); PMID 15314738 — [Electronic evaluation of students' practical training with family practitioners.]
6. Porzsolt F, Kojer M, Schmidl M, Greimel ER, Sigle J, Richter J, Eisemann M: A new instrument to describe indicators of well-being in old-old patients with severe dementia - the Vienna List. *Health and Quality of Life Outcomes* 2:10 (2004); PMID 14975057
7. Sigle J, Wilhelm HJ: Medizinisches Qualitätsmanagement. In: Lehman T, Meyer zu Bexten E (Hrsg.): *Handbuch der medizinischen Informatik*. Carl Hanser Verlag, ISBN 3-446-21589-1 (2002) — [Medical Quality Management. In: Textbook of Medical Information Technology.]
8. Porzsolt F, Sigle J: Was bringt die Behandlung? Interpretation von Studienergebnissen zu therapeutischen Verfahren. In: Perleth M, Antes G (Hrsg.): *Evidenz-basierte Medizin, Wissenschaft im Praxisalltag*, MMV Medizin Verlag München, ISBN 3-8208-1333-0, 37-47 (1998) — [What is the benefit of a treatment? Interpretation of clinical studies on therapeutic methods. In: Evidence-Based Medicine, science in daily medical practice.]
9. Sigle J, Porzsolt F: When will we have electronic patient files?, *ESPO Newsletter* 11, 7-10 (1996)
10. Sigle JM, Porzsolt F: Practical aspects of quality-of-life measurement: design and feasibility study of the quality-of-life recorder and the standardized measurement of quality of life in an out-patient clinic, *Cancer Treatment Reviews* 22 Suppl A: 75-89 (1996); PMID 8625353
11. Schmidt H, Merkel D, Koehler M, Flechtner HH, Sigle J, Klinge B, Jordan K, Vordermark D, Landenberger M, Jahn P: PRO-ONKO - selection of patient-reported outcome assessments for the clinical use in cancer patients - a mixed-method multicenter cross-sectional exploratory study. *Support Care Cancer* 24:2503-2512 (2016); PMID 26676238

Additional publications for which I have provided consultation and completely prepared configurations of the QL-Recorder, but have not been named as co-author, have appeared e.g. in *JClinOncol*, *BrJCancer* and *AnnOncol*. These are based upon routine assessments of Quality-of-Life in thousands of patients over multiple years. Further information: <http://www.ql-recorder.com/document>

Peer reviews for *Quality of Life Research*, *British Journal of Cancer*, and *Zeitschrift für Allgemeinmedizin*.

Doctoral, master's and diploma theses with applications of my technology

1. Mautner E: Schwangerschaft und Geburt - Medizinische und psychosoziale Einflussfaktoren auf die Lebensqualität und Befindlichkeit. Universität Graz (2008)
[Pregnancy and birth - medical and psychosocial factors influencing quality of life and wellbeing.]
The poster Mautner E et al.: Pregnancy and Birth - The impact of medical and psychosocial factors on quality of life and wellbeing. International Society for Quality of Life Research Annual Conference, 25. Oktober 2008, Montevideo - earned the New Investigator Award of the conference.

2. Preuss C: Patientenbefragung zur Lebensqualität und Behandlungszufriedenheit für Disease Management Programme bei Diabetes mellitus: Entwicklung von Werkzeugen und Machbarkeitsstudie. Universität Heidelberg (2006) [Patient assessment on Quality-of-Life and satisfaction with care for disease management programs for diabetes mellitus. Development of tools and feasibility study.] *Schwank-Prize 2007 for the "Best doctoral thesis of 2006" of the Landesärztekammer Nordbaden.*
3. Thüring S: Kommunikation von Ergebnissen individueller Lebensqualitätsmessungen in der Hausarztpraxis. Medizinische Hochschule Hannover (2006) [Communication of results of individual Quality-of-Life measurements in family practice.]
4. Chen, T: The effect of Health-Related Quality of Life (HRQoL) on Health Service Utilization of patients with chronic disease. University of Zhejiang, China (2005)
5. Höhman D: Klinische Signifikanz von EORTC QLQ-C30 Daten für die Prognose von Patienten mit Mamma-, Pankreas-, Ovarial- und kolorektalem Karzinom. Universität Witten-Herdecke (2000) [Clinical significance of EORTC QLQ-C30 data for the prognosis of patients with breast, pancreatic, ovarian and colorectal carcinomas.]
6. Braun R: LQ-KID: Entwicklung einer computerbasierten Methode zur Evaluation der Lebensqualität bei chronisch kranken Kindern und Jugendlichen. Universität Ulm. [Development of a computer based method to evaluate Quality-of-Life in chronically ill children and adolescents.] (A feasibility-study with the QL-Recorder in another setting.) *Follow up work by the same group won the Lilly Quality of Life Prize 2002.*
7. Schimitzek C: Patientenpräferenzen - Einsatz des LQ-Recorders zur direkten Patientenbefragung und zur einfachen Erfassung bereits vorher erhobener Papierfragebögen. Universität Ulm. [Patient preferences - using the QL-Recorder to directly administer electronic questionnaires to patients and to conveniently score previously collected paper questionnaires.]
8. Holch S: Einsatz des LQ-Recorders bei stationären Patienten. Universität Ulm (2000) [Using the QL-Recorder in inpatients.]
9. Gebhard U: Grenzen der LQ-Messung. Einsatz des LQ-Recorders und von Fragebögen bei Patienten der Aufnahmestation. Universität Ulm (1997) [Limitations of Quality-of-Life measurement. Using the QL-Recorder and paper questionnaires in the admission and emergency ward.]
10. Sigle J: Praktische Aspekte der Lebensqualitäts-Messung: Die standardisierte Messung der Lebensqualität bei Ambulanzpatienten mit einem elektronischen Lebensqualitäts-Recorder. Universität Ulm (1996) [Practical aspects of Quality-of-Life Measurement: The standardized measurement of Quality-of-Life in outpatients using an electronic Quality-of-Life-Recorder.] *Development of the QL-Recorder, routine QL measurement in more than 1'100 outpatients, resulting in almost complete representation of a defined patient group, patient compliance around 96%, completeness of data exceeding 99.9%, age distribution like the German population up to 92 years.*

Contributions to scientific meetings (examples)

1. Lecture: Sigle J: Elektronische Patientenfragebögen auf Basis des Lebensqualitäts-Recorders. 23. Kongress der Deutschen Kontinenz Gesellschaft, Köln (2011) [Electronic patient questionnaires based upon the Quality-of-Life-Recorder.]
2. Lecture (by CT): Chen T, Li L, Sigle J, Du Y: Feasibility and reliability of the electronic version of Chinese SF-36 administered using the Quality-of-Life-Recorder. 2007 International Society for Quality of Life (ISOQOL) Research meeting abstracts. Quality of Life Research, Suppl A-86 (2007)
3. Lecture: Sigle J, Surhoff M, Kochen MM et al.: Entwicklung einer universellen Plattform für elektronische Leitlinien und Adaptation der DEGAM Leitlinie #1: Brennen beim Wasserlassen. 39. Kongress der Deutschen Gesellschaft für Allgemein- und Familienmedizin, Potsdam (2005) [A universal platform for electronic guidelines and adoption of DEGAM guideline #1: Painful urination.]
4. Lecture: Sigle J, Scheidt-Nave C et al.: Developing an Infrastructure to use Electronic Patient Records for Research in German General Practice: The MedViP Study. European General Practitioners' Network (EGPRN) Congress, Gozo/Malta (2004)

5. Poster: Höhmann D, Hager ED, Sigle J: Prognostic significance of EORTC QLQ-C30 data for patients with pancreatic cancer. Spring meeting of the EORTC-GITCCG: "Prognostic Factors in Colorectal Cancer: Impact of Tumor Biology and Treatment Quality", Ulm (2001)
6. Lecture: Sigle J, Porzolt F: Standardized assessment of quality of life in an out-patient clinic. II. Reisenburg Conference on Goals of Palliative Cancer Therapy, Günzburg (1996)

Other publications and media (examples)

1. Contributions to the OpenSource practice management software Elexis (2010 - 2015)
First examples available via: <http://www.jsigle.com/prog/elexis>
2. Contributions to requirements for the practice management software Res Medicinae / GNUmed.
Current version at: <http://resmedicinae.sourceforge.net/analysis> (ca. 2001)
3. Sigle J: Gesucht: Optimale Software - Marktübersicht und Anwenderbefragung zu Krankenhausinformationssystemen. ku-Special 16, 22-23 (1999)
[Wanted: Optimal software - Market survey on hospital information systems.]
4. Projektbericht und interaktives Modell zum Projekt "Digitales ArchivierungsZentrum Ulm" (1999)
[Project report and interactive model on a central digital archive for radiologic image data.]
I was asked to complete this business conception project and demonstrated qualitative and quantitative superiority of a distributed virtual architecture using commodity hardware on users' sites.
5. Thure von Uexküll: Placebo-Effekte in der Medizin. Aufzeichnung eines Seminars der AG Klinische Ökonomik für Studierende in der Schwarzwaldklinik (1999)
[Placebo effects in medicine. Video recording of a seminar for students with Thure von Uexküll.]
6. Personal homepage (pointing to various project related pages) (since 1996):
Current version at: <http://www.jsigle.com>
7. The Quality-of-Life-Recorder using AnyQuest for Windows -
A tool for electronic patient questionnaires (since 1996)
Current version at: <http://www ql-recorder.com>

Active participation in educational and other events (examples)

1. Wissenschaftliches Institut der Techniker Krankenkasse für Nutzen und Effizienz im Gesundheitswesen (WINEG, TK): [Existing unfavourable and missing favourable feedback loops in the healthcare system - modelling effects of discount agreements on costs, benefits, perception and behaviour of the insured, with regard to changing their health insurance provider.] Hamburg (2007)
2. Institut für Qualität und Wirtschaftlichkeit im Gesundheitswesen (IQWiG): [Presentation of the projects MedViP II / E and A1 that won grants by the BMBF: Improvement of infrastructure and quality oriented ways of working and routine measurement of Quality-of-Life using electronic questionnaires in family practices.] Köln (2005)
3. DEGAM Forschungskurs 2005: [Presentation of the projects MedViP II / E and A1.] Freiburg (2005)
4. Euroforum Konferenz "Electronic Health": [Electronically assisted outcome measurement.] Düsseldorf (2000)
5. ESO-D-Course [Introduction to Evidence-Based Medicine for clinical oncologists.] St. Gallen (2000)
6. ESO-D-Course [Evidence-Based Medicine in Oncology.] Stein am Rhein (1998)
7. ESO-D-Course [Palliative therapy and Quality-of-Life in cancer patients.] Ittingen (1998)
8. Sozialmedizinische Akademie Stuttgart: Course: [Evidence-Based Medicine - definition and implementation.] (1998)
9. University of Ulm: [1st Introductory course to Evidence-Based Medicine.] (1998)
10. CeBIT: The QL-Recorder is one of three research exhibits representing the University of Ulm (1998)
11. Wilsede-Course: [Methods for clinical-economic assessment.] Wilsede (1997)

Participation in academic teaching in Medicine, Medical IT, Statistics, Psychology and Economics at the Universities of Ulm, Bayreuth and Göttingen.

International projects (examples)

1. CLP: Adoption of interactive patient questionnaires for history taking and QoL measurement to the QL-Recorder in 4 languages (including Chinese); introduction into routine care (2016)
2. European Network for Promoting the Health of Residents in Psychiatric and Social Care Institutions (HELPS): Psychotherapeutic questionnaires on the QL-Recorder in 11 languages (2010-2012)
3. Glaxo-Wellcome: eIBSQOL - Electronic patient questionnaires in 19 languages as added value service for a new drug (1999, 2000)
4. Royal Prince Alfred Hospital, Sydney: Adoption of the QL-Recorder concept onto Pen-Computers upon invitation by Prof. Alan Coates (1996)

Memberships in professional societies and workgroups

AIO - AG Internistische Onkologie der Deutschen Krebsgesellschaft, www.aio-portal.de (since 2009)
 DEGAM - Deutsche Gesellschaft für Allgemeinmedizin und Familienmedizin, www.degam.de (since 2003)
 QMS - Qualitätsring Medizinische Software, www.qms-de.org (since 2001)
 AAAI - Association for the Advancement of Artificial Intelligence, www.aaai.org (2012-2013)
 EGPRN - European General Practitioners' Research Network, www.egprn.org (2004-2005)
 EORTC Study Group on Quality of Life, www.eortc.be/qo1 (1993-2003, then corresponding)

Additional courses and certificates (examples)

Online course: Computer Science 373: Programming a Robotic Car, www.udacity.com
 Prof. Sebastian Thrun (2012)
 Result: With Highest Distinction

Online course: Introduction to Computer Science 101: Building a Search Engine, www.udacity.com
 Prof. David Evans and Prof. Sebastian Thrun (2012)
 Result: With Highest Distinction

Online course: Introduction to Artificial Intelligence, www.ai-class.org
 Prof. Sebastian Thrun und Prof. Peter Norvig, Stanford Engineering (2011)
 Score: 100% (160.000 enrolled from all over the world, 23.000 completed the course, 248 with 100%)¹

Online course: Machine Learning, www.ml-class.org
 Prof. Andrew Ng, Stanford University Artificial Intelligence Lab (2011)
 Score: 100% (104.000 enrolled, 13.000 completed)

Online course: Introduction to Databases, www.db-class.org
 Prof. Jenifer Widom, Stanford Engineering (2011)
 Score: 95% (92.000 enrolled, 7.000 completed, my result is among the top 5% of those who completed)

Seminar on GCP (Good Clinical Practice) for investigators and study nurses. Workgroup Medical Oncology (AIO) of the German Cancer Society (DKG) and KKS / Charité Berlin (2009)

Course in emergency medicine (Parts A-D, 80 hours) as recommended by the Sektion Rettungswesen der DIVI for the qualification of physicians on emergency rescue service and the Bundesärztekammer. Center for Anesthesiology, Emergency Medicine and Intensive Care of the University of Göttingen (2004)

Course Quality Management for Physicians (Level I, 40 hours) according to the Curriculum of the Bundesärztekammer. Dpts. of Transfusion Medicine and Medical Information Technology of the University Clinic of Göttingen (2004)

Seminar "Cardio-circulatory emergency situations" with exercises and case simulations according to standards of the European Resuscitation Council and the Bundesärztekammer. Karlsruhe (2002)

6th UK Workshop in Teaching Evidence-Based Medicine, Prof. David Sackett. NHS R&D Centre for Evidence-Based Medicine, Nuffield Dpt. of Clinical Medicine, University of Oxford (1997)

Seminar Physics I. University of Ulm (1997)

TOEFL Total Score 643, TWE Score 5.0 (1995) → <https://www.ets.org/toefl/institutions/scores/interpret>

¹www.nytimes.com/2012/03/05/education/moocs-large-courses-open-to-all-topple-campus-walls.html