

Good Practices in Switzerland

HOPE Exchange Programme

Andres Kotsar, MD, PhD, FEBU

CMO – Member of the Executive Board

Tartu University Hospital

Estonia

Maria Chueca, MD, PhD, pediatric endocrinologist

Chief of the pediatric outpatient clinic

Navarra University Hospital

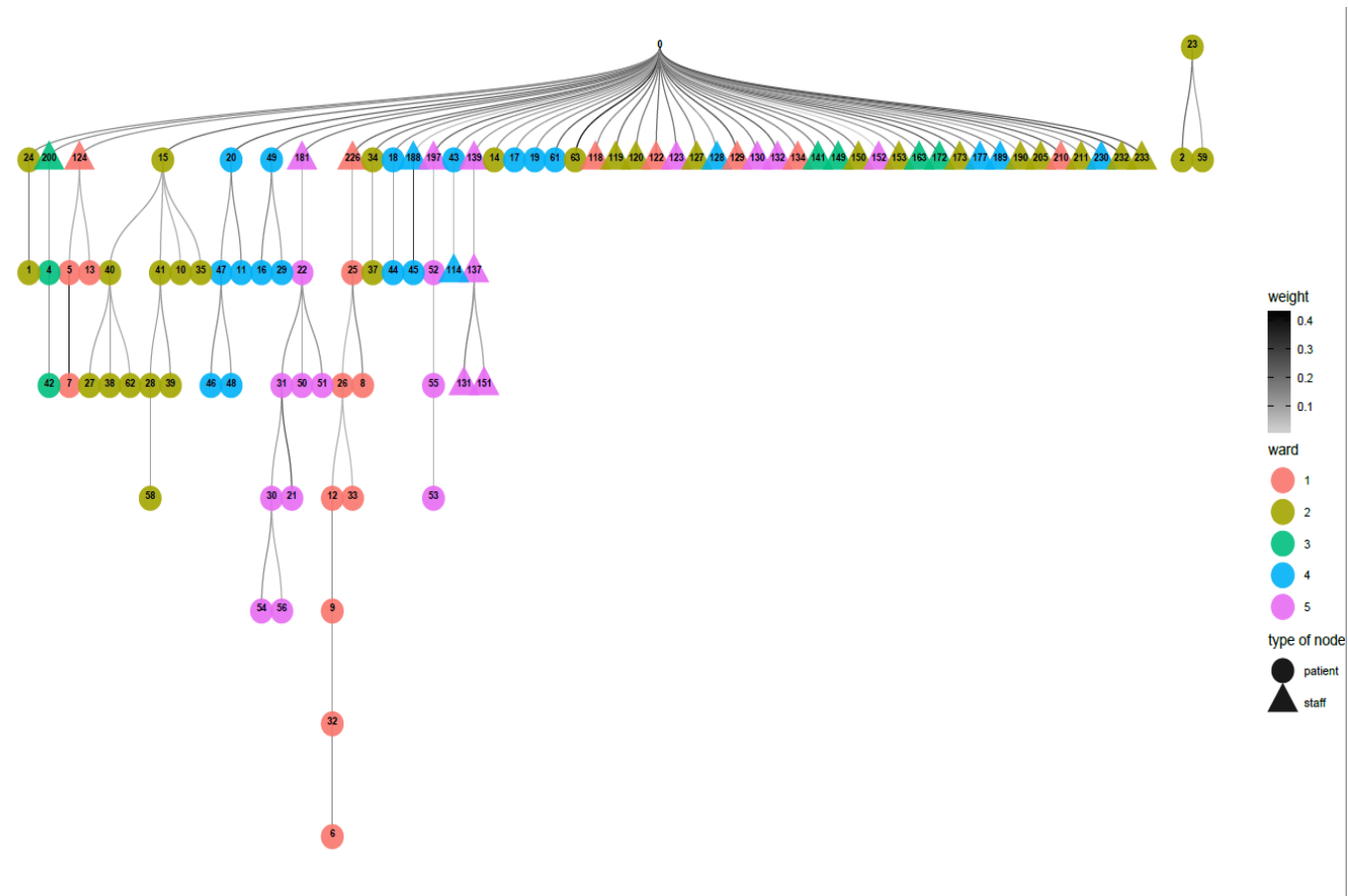
Spain



1.

(Nursing-)Research at GFA

Modelling of Covid-19 transmission



STUDY PROTOCOL

Open Access

Prevention Admission into Nursing homes (PAN): study protocol for an explorative, prospective longitudinal pilot study



Andrea L. Koppitz^{1*}, Susanne Suter-Riederer², Gabriela Bieri-Brünig³, Heike Geschwinder³, Anita Keller Senn^{1,4}, Frank Spichiger¹ and Thomas Volken⁵



Table 1 Outcome Measurements during the Intervention Schedule

Timepoint	T0 PAC admission	T1 PAC discharge	T2 3 months after discharge	T3 6 months after discharge
Primary Outcome				
• Barthel-Index	+	+		+
Secondary Outcomes				
• Delirium (DOS)	+			
• Cognition (MMSE)	+			+
• Mobility (SPPB)	+			+
• Falling concerns (FES-I)	+			+
• Frailty	+			+
• Weight, height, BMI	+			+
• PAC capability	+	+		
• Quality of life	+	+		+
• Informal network				+

(Nursing-)Research at GFA

- determine whether the PAC programme can improve older people's functional status
- allows the assessment of functionality over several months and ensures that the intervention's shortterm and long-term effects can be adequately captured
- will determine the sustainability of the PAC
- Potentially the PAC programme will improve the functional status of older people and reduce the burden on their relatives.

2.

Quality Department




Patient-reported outcome measures (PROMs) in the Swiss health care system. An analysis of the requirements for implementing PROMs in the Swiss health care system based on the experience of the Dutch health care system.

Leonel Oliveira
University Hospital Basel Switzerland

SWOT-Analyse

Strengths	Weaknesses
<ul style="list-style-type: none">– Positive attitude of various healthcare organizations (H+ FMH etc.) for the promotion of PROMs.– Positive attitude of health insurance companies and pharmaceutical industry.– National leading projects.– Inclusion in some national registries.	<ul style="list-style-type: none">– Fragmented healthcare and thus numerous policy makers and stakeholders.– Lack of nationwide electronic medical record (eHealth).– Lack of defined fee-for-service for collecting and discussing PROs data.
Opportunities	Threats
<ul style="list-style-type: none">– Improvement of health care performance by providing individual treatment pathways.– Fee-for-service based on PROs data and justification of individual treatments by PROs data.– Reduction of medical oversupply.– Increased involvement of the patient in their treatment.– Transparent reporting of the treatments and services provided.– Enhancement of competencies for certain professional groups or creation of new professional groups.– Benchmarking by comparing healthcare providers in Switzerland and/or comparing them with other countries.	<ul style="list-style-type: none">– Lack of financial and time resources for PROMs and their discussion with patients.– Quality-based performance reimbursement for treatments provided, with existing risk of misinterpretation of PROs.– Comparison of PROs across health care providers with blame and creation of an unsafe environment.– Lack of language services for patients with immigrant backgrounds.

BMJ Open Patient-reported outcome measures (PROMs) following knee arthroplasty: a prospective cohort study protocol

Nicole Vogel ^{1,2} Thomas Rychen,² Raphael Kaelin,² Markus P Arnold^{1,2}

¹Faculty of Medicine, University
of Basel, Basel, Switzerland

²Practice Leonardo, Hirslanden
Klinik Birshof, Münchenstein,
Switzerland

- aim is to contribute to the implementation of PROMs collection into daily medical routine.

3. Innovation



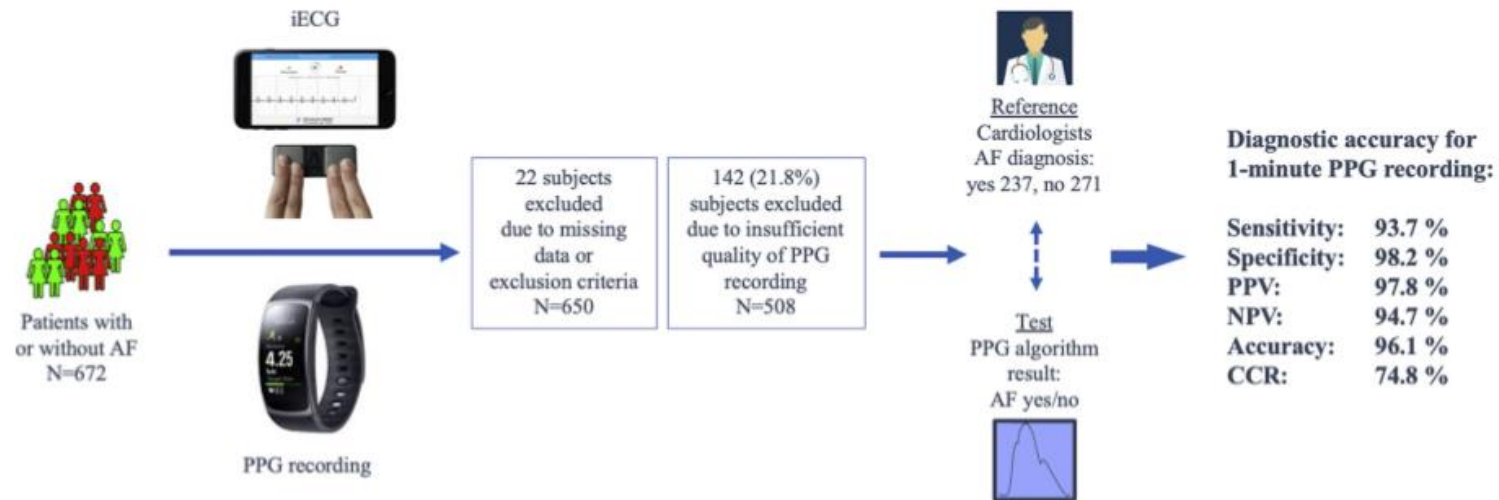
NEW RESEARCH PAPERS

The WATCH AF Trial: SmartWATCHes for Detection of Atrial Fibrillation



Marcus Dörr, MD,^{a,b} Vivien Nohturfft, MSc,^a Noé Brasier, MSc,^c Emil Bosshard, BSc,^c Aleksandar Djurdjevic, MSc,^c Stefan Gross, PhD,^{a,b} Christina J. Raichle, MD,^c Mattias Rhinisperger, BSc,^c Raphael Stöckli, BSc,^c Jens Eckstein, MD, PhD^{c,d}

FIGURE 2 Using a Smartphone for AF Detection by a Novel PPG-Based Algorithm: The WATCH AF Trial



CCR = correct classified rate; NPV = negative predictive value; PPV = positive predictive value; WATCH AF = SmartWATCHes for Detection of Atrial Fibrillation; other abbreviations as in [Figure 1](#).



- The results of the WATCH AF trial suggest that detection of AF using a commercially available smartwatch is in principle feasible, with very high diagnostic accuracy.
- Applicability of the tested algorithm is currently limited by a high dropout rate as a result of insufficient signal quality.
- Whether smartwatches may be useful complementary tools for convenient long-term AF screening in selected at-risk patients must be evaluated in larger population-based samples.

Original Paper

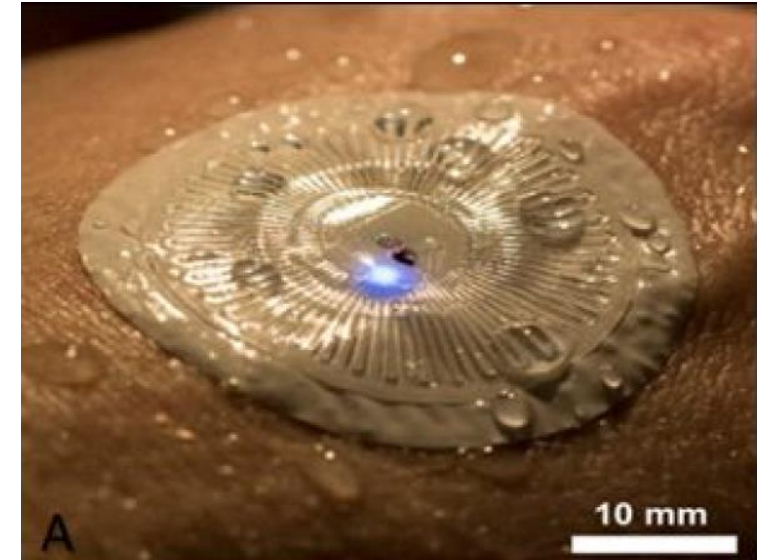
Next-Generation Digital Biomarkers for Tuberculosis and Antibiotic Stewardship: Perspective on Novel Molecular Digital Biomarkers in Sweat, Saliva, and Exhaled Breath

Noe Brasier^{1,2}, MD; Michael Osthoff³, MD; Fiorangelo De Ieso^{1,3}, MSc; Jens Eckstein^{1,3}, MD, PhD

¹Department of Digitalization & ICT, University Hospital Basel, Basel, Switzerland

²Institute for Translational Medicine, ETH Zurich, Zurich, Switzerland

³Division of Internal Medicine, University Hospital Basel, Basel, Switzerland



- We see great potential in applying smart biosensors to the detection of next-generation digital biomarkers in infectious diseases and provide the first noninvasive, lab-independent, digital point-of-care diagnostics in the future.

Take Home Messages

- Exceptional quality in every level of healthcare
- Innovation integrated to everyday clinical practice
- Clear strategies of University Hospitals
- Excellent educational programmes for career in nursing
- Hospitals considering sustainability
- **Structure reforms – enhancing attractiveness for future employees**
- Department leaders understand the potential future personnel deficit

THANK YOU ORGANIZING COMMITTEE SWITZERLAND HOPE 2022!!!



Erika Schütz

Zürich



*Heike
Geschwinder*



*Arda
Teunissen*

Barbara Moll
PD Dr med. Lukas Imbach
Fabian Tschumi
Prof. Dr. David Nadal
Liliane Brunner
Daniela Van Zyl
Prof. Dr. Reto Schüpbach
Dr. Marcel Maier
Christian Strübi
Matthias Hotz
Florian Köhn
Dr. med. Gabriela Bieri-Brüning
Christina Brunner
Alex Poelman
Eva.Horvath

Dr Urs Zimmermann
Dr Rudolf Hadorn
Fabian Tschumi
Hanspeter Notter
Thomas Langholz

Basel



Katja Wyss

Daniel Uebersax
Raphaela Meier
Dr. Christian Abshagen
Dr. Florian Rüter
Prof. Dr. Urs Zumsteg
Florian Schupp
Dr. Margot Tanner
Dr. Sabrina Gänsbacher
Prof. Dr. René Schwendimann
Dr. med. Florian Rüter
Annika Minder
Prof. Jürg Steiger
Barbara Forlorou
Melanie Behr
Dr. med. Peter HJ Müller
Cyrill Vögelin
Prof. Dr. Jens Eckstein
Manfred Roth
Dr. Werner Kübler
Rosemarie Noesberger