

Attachment 1: Questionnaire

1. Basic questions / Background
In the following questions we would like to find out about your possible scientific background
<p>How would you rate your scientific research skills? (Indicate your personal, subjective assessment)</p> <ul style="list-style-type: none"> <input type="radio"/> I do not have any scientific research skills <input type="radio"/> I have limited scientific research skills <input type="radio"/> I have a basic knowledge of scientific research skills <input type="radio"/> I have extensive scientific research skills <input type="radio"/> I have comprehensive scientific research skills
<p>In which area do you currently work? (multiple answers possible)</p> <ul style="list-style-type: none"> <input type="radio"/> Nursing and functional services <input type="radio"/> Medical service <input type="radio"/> Medical-technical service <input type="radio"/> Social, educational & therapeutic professions <input type="radio"/> Administration <input type="radio"/> Information technology <input type="radio"/> Scientific service and research <input type="radio"/> Dean's Office of the Faculty of Medicine and associated facilities <input type="radio"/> Other, namely: _____
<p>Filter question for answer "Scientific service and research"</p> <p>How many years have you been or are you currently working in academia? Please enter whole years (e.g. 1,5,12, etc.) If you have not yet been scientifically active for a full year, please enter the number 1</p> <p>_____</p>
<p>Filter question for answers other than "Scientific service and research"</p> <p>Do you plan to pursue a career in science?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know

2. Knowledge and utilization of research methods and desire for continuing education

A wide range of methods are used in health services research. Quantitative methods for numerical visualisation have a firm place here.

How familiar are you with the following **quantitative survey** methods?

	I don't know it, I've never heard of it	I know it, but I haven't used it yet	I have already used it
Questionnaire development (e.g. standardised survey, multiple choice, closed)			
Questionnaire validation			
Collection of primary data (data collected for research purposes)			
Handling of secondary data (e.g. handling of data that was not primarily collected for research purposes but is then used)			
Other, namely:			

How familiar are you with the following **quantitative evaluation** methods / test procedures?

	I don't know it, I've never heard of it	I know it, but I haven't used it yet	I have already used it
Hypothesis tests (e.g. t-test, chi-square test, Mann-Whitney U-test, Wilcoxon test)			
Correlation analyses (e.g. Pearson correlation analysis, Spearman rank correlation)			
Regression analyses (e.g. simple linear regression, multiple regression, multinomial regression, ordinal regression, Cox regression, Poisson regression)			
Methods of variable selection (e.g. forward selection, backwards selection, LASSO)			
Structuring methods (e.g. factor analysis, principal component analysis, cluster analysis)			
Verification of model quality (e.g. bootstrap, cross-validation, AIC, BIC)			
Hierarchical models/multi-level models			
Other, namely:			

Where would you like to see training formats in **quantitative** research?
Multiple answers are possible.

- Questionnaire development (e.g. standardised survey, multiple choice, closed)
- Questionnaire validation
- Collection of primary data (data collected for research purposes)
- Handling secondary data (e.g. handling data that was not primarily collected for research purposes but is then used)
- Hypothesis tests (e.g. t-test, chi-square test, Mann-Whitney U-test, Wilcoxon test)
- Correlation analyses (e.g. Pearson correlation analysis, Spearman rank correlation)
- Regression analyses (e.g. simple linear regression, multiple regression, multinomial regression, ordinal regression, Cox regression, Poisson regression)
- Methods of variable selection (e.g. forward selection, backwards selection, LASSO)
- Structuring methods (e.g. factor analysis, principal component analysis, cluster analysis)
- Verification of model quality (e.g. bootstrap, cross-validation, AIC, BIC)
- Hierarchical models/multi-level models
- Other, namely: _____
- None

Qualitative methods also play a central role in healthcare research. These are not numerical, but are recorded verbally, visually or textually, for example.

How well do you know the following **qualitative** survey methods?

	I don't know it, I've never heard of it	I know it, but I haven't used it yet	I have already used it
Interviews (e.g. guided or problem-centred interviews etc.)			
Group discussion methods e.g. focus group interviews etc.)			
Participatory survey methods, e.g. with the active involvement of study participants in planning or design			
Participatory observation			
Document analysis			
Other, namely: _____			

How well do you know the following **qualitative** evaluation methods?

	I don't know it, I've never heard of it	I know it, but I haven't used it yet	I have already used it
Content analysis			
Grounded Theory			
Thematic analysis			
Documentary method			
Biographical research methods			
Discourse analysis			
Other, namely: _____			

In which area would you prefer a training format in **qualitative** research?

Multiple answers are possible

- ☐ Interviews (e.g. guided or problem-centred interviews etc.)
- ☐ Group discussion methods e.g. focus group interviews etc.)
- ☐ Participatory survey methods, e.g. with the active involvement of study participants in planning or design
- ☐ Participatory observation
- ☐ Document analysis
- ☐ Content analysis
- ☐ Grounded Theory
- ☐ Thematic analysis
- ☐ Documentary method
- ☐ Biographical research methods
- ☐ Discourse analysis
- ☐ Other, namely: _____
- ☐ None

In health services research and evidence-based medicine, the following methods are frequently used to answer scientific questions.

Please indicate how familiar you are with the following examples.

	I don't know it, I've never heard of it	I know it, but I haven't used it yet	I have already used it
Complex interventions			
Patient Reported Outcomes Measures (PROM)			
Patient Reported Outcomes Experience Measures (PREM)			
Creation of reviews (narrative, scoping etc.)			
Preparation of systematic reviews			
Creation of meta-analyses			
Carrying out real laboratories			
Other, namely:			

In which of the methods mentioned would you be interested in further training?

Multiple answers possible

- ☐ Complex interventions
- ☐ Patient Reported Outcomes Measures (PROM)
- ☐ Patient Reported Outcomes Experience Measures (PREM)
- ☐ Creation of reviews (narrative, scoping etc.)
- ☐ Preparation of systematic reviews
- ☐ Creation of meta-analyses
- ☐ Carrying out real laboratories
- ☐ Other, namely: _____
- ☐ None

How do you usually analyse collected data (qualitatively or quantitatively)?

Multiple answers are possible

- ☐ I do not analyse any data
- ☐ I analyse the data myself using appropriate methods
- ☐ I give it to a specific specialist department, e.g. Institute for Biometry at the University Hospital or the Faculty of Medicine
- ☐ I give it to an external provider
- ☐ Other, namely: _____

For which data processing software do you see a need for further training?

If you do not know a software and do not plan to use it in the near future, please tick 'I have no need'.

	I have no need	I would like to learn the basics	I would like an advanced course	I would like a basic course + advanced course in combination
MAXQDA				
Atlas.ti				
F4				
SPSS				
SAS				
STATA				
Other, namely:				

Further wishes and requirements

Which key topics would you like to see covered in a training format?

Multiple answers possible.

- ☐ Project coordination / project management
- ☐ Third-party funding application / administration / overview
- ☐ DFG application
- ☐ BMBF application
- ☐ EU application
- ☐ Choice of study design
- ☐ Development of research questions
- ☐ Evaluation methods
- ☐ Evaluation of complex interventions
- ☐ Process evaluation models and practical procedures
- ☐ Scientific writing
- ☐ Publishing in scientific journals
- ☐ Poster creation
- ☐ Research ethics and legal issues
- ☐ Health economics
- ☐ Topics relating to health services research (settings, methods, relevance)
- ☐ Epidemiology
- ☐ Data protection issues in research
- ☐ Science communication
- ☐ Other, namely: _____
- ☐ None

Framework conditions and organisation of the continuing education formats
<p>How many times a year do you usually attend continuing education courses on research methods?</p> <p>Please enter only whole numbers. e.g. approx. [X] times per year</p> <p>_____</p>
<p>Where do you look for training opportunities?</p> <p>Multiple answers are possible.</p> <ul style="list-style-type: none"> <input type="radio"/> At the University Hospital Tübingen <input type="radio"/> At the Eberhard Karls University of Tübingen <input type="radio"/> Other universities and colleges <input type="radio"/> Subject-specific networks / mailing lists <input type="radio"/> I am not looking for it <input type="radio"/> Other, namely: _____
<p>How should methodological training be organized?</p> <p>Regardless of the corona pandemic.</p> <ul style="list-style-type: none"> <input type="radio"/> Face-to-face <input type="radio"/> Online <input type="radio"/> Blended learning programs (e.g. combination of face-to-face units, online lectures and online recordings with practical exercises that are completed through self-study) <input type="radio"/> No preference
<p>Would you like to receive a certificate of attendance?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> No preference
<p>Do you generally collect continuing education points?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No
<p>Filter question if answer is "Yes"</p> <p>If so, would you still attend the continuing education course even if there were no further continuing education points available for it?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No
<p>Do you know the Center for Public Health and Health Services Research (ZÖGV) at the University Hospital of Tübingen?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No