



FEASIBILITY OF THE CALCULATION OF QUALITY INDICATORS FOR MEDICATION REVIEWS FROM A PROFICIENCY TEST SYSTEM WITH VIRTUAL PATIENTS

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QuaMedA

in Cooperation with



Universität
Münster

WIVA

Wissenschaftliches Institut
für Versorgungsforschung
in der Apotheke



apothekerkammer
nordrhein





Foto: V. Lannert, Universität Bonn



Medication Reviews Performed in Community Pharmacies

QUALITY (?)



- Quality of medication reviews
- Differences within process fidelity
- Individual and/or general knowledge gaps
- Influencing Factors



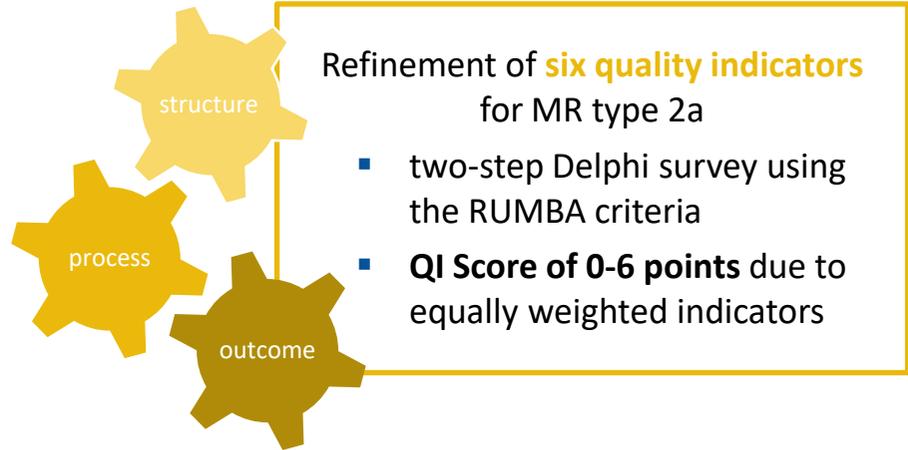
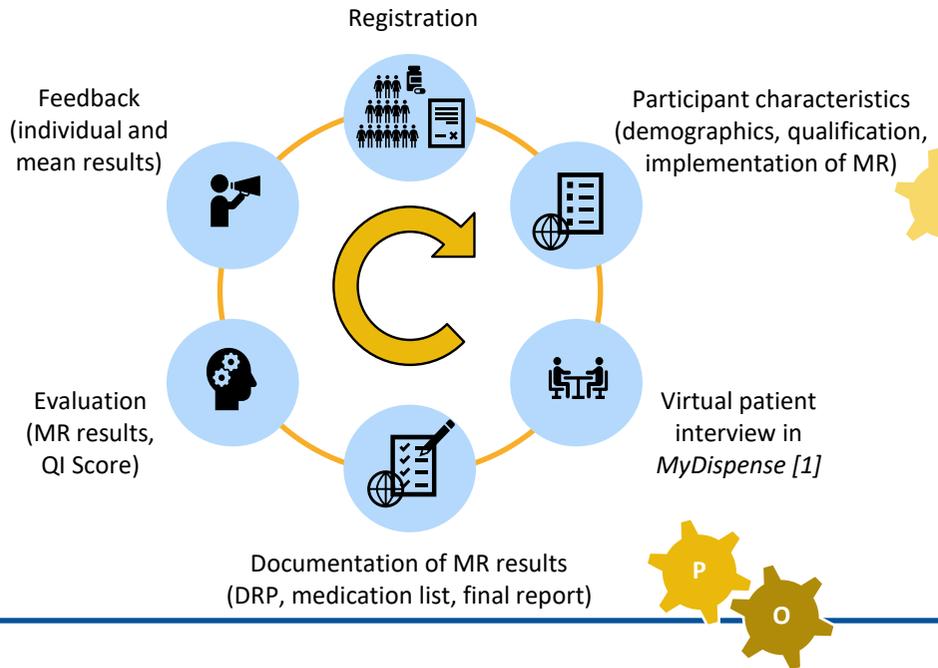
- Basis for assessment (missing information)
- Measurability (reliable instruments)
- Comparability (differences in complexity)



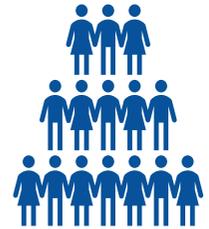
- Quality assurance
- Need for specific training
- Strengthening of self-confidence



proficiency test system for MR with virtual patients



Calculation of quality indicators within the first proficiency test



QuaMedA – Quality assurance for medication reviews in community pharmacies
 RUMBA - relevant, understandable, measurable, behaviourable, achievable



Quality indicator	Range
Qualification of the pharmacist (s)	1-3
Number of MR (s)	0-3
Evaluation of DRP (p)	0-13
Management of DRP (p)	0-1
Medication plan (o)	0-1
Final report (o)	0-1

s = structure, p = process, o = outcome; MR = medication review, DRP = drug-related problems, QI = quality indicator

Dataset

1st proficiency test for MR with virtual patients



- 252 participants, broad distribution of ages and professional experience
- 219 participants with complete process and documentation required



- 76 years old patient
- Total of 14 DRP, 6 clinical relevant DRP



- 5.5 ± 2.4 [0-12] DRP, $50 \pm 26\%$ [7-86] adequate recommendations
- 3.1 ± 1.4 [0-6] clinical relevant DRP, $56 \pm 20\%$ [21-79] adequate recommendations

The calculation of the refined quality indicators from the proficiency test is feasible!



Mean QI Score
3.7 ± 0.8 [1.1-5.5]

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*s = structure, p = process, o = outcome; MR = medication review, DRP = drug-related problems, QI = quality indicator; * n = 214 (5 missing values)*

Next Steps

- Correlation of QI Score with the corresponding MR result
- Further evaluation of influencing factors
- Reevaluation within a second proficiency test

Thanks!



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