

UniversityHospital Heidelberg

Chronic Diseases and Multimorbidity – Challenges for Healthcare Systems

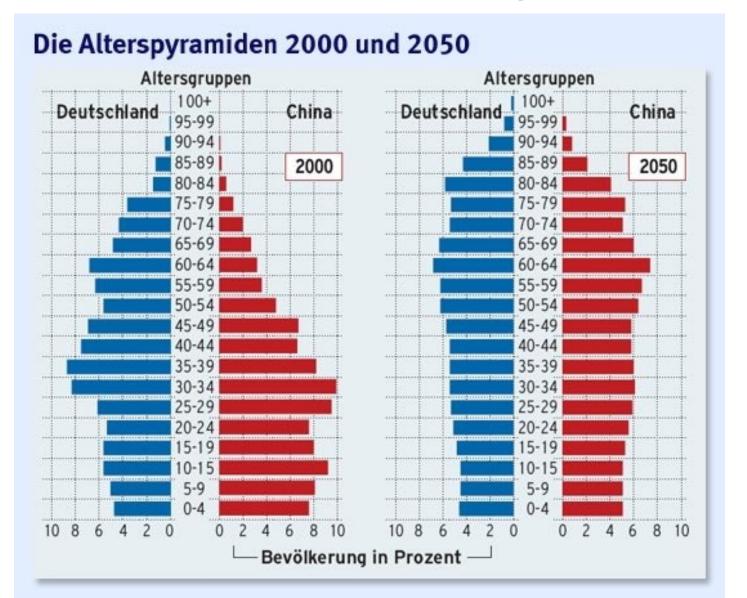
Prof. Joachim Szecsenyi, MD, MSc

Dep. of General Practice and Health Services Research, University Hospital Heidelberg, Germany

AQUA- Institute for Applied Quality Improvement and Research in Health Care, Göttingen, Germany



The challenge









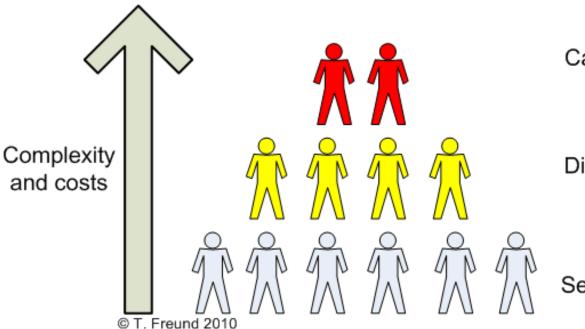


The challenge

- More people with chronic diseases
- More people with more than one chronic condition beginning at 50+
- Chronic diseases demand structured, proactive and continuous care, the patient in the centre, not the structure
- How good are workforces (doctors, nurses, other professionals) prepared to do this?
- How good are our healthcare systems prepared?



Programs for patients with chronic diseases in Germany



Case Management

Disease Management

Self Management Support



Disease management programs in Germany

- Introduced in 2002 by federal law
- Directives by Federal Joint Comittee (G-BA)
- Supervised by Federal Insurance Office (BVA)
- Extra payment for providers, sometimes reduction of premiums for patients
- Perfomed by General Practioners and specialists, mainly in ambulatory care outside hospitals
- Providers and patients have to subscibe to programs
- Evidence-based contents, patient education (self management), evaluation and feedback



Disease management programs in Germany

Indication	Participants
Asthma bronchiale	884.109
Breast cancer	111.315
COPD	712.709
Diabetes mellitus Type 1	183.173
Diabetes mellitus Type 2	4.042.844
Coronary Heart Disease (incl. module on HF)	1.788.605
Total:	7.722.755

As per Dec. 31, 2015: Source: Federal Insurance Office (BVA), Patients: N=6.622.532

Preparations, but not yet decided upon: Heart failure (HF), Rheumatoid Arthitis, Osteoporosis, Chronic Back Pain, Depression



Results

- No prospective randomised controlled trials
- Federal evaluation lacks follow up data but shows moderate positive associations with guideline adherence of doctors and clinical outcomes of patients
- Evaluations based on sick fund and patient survey data with follow up shows small to moderate positive effects on guideline adherence, quality of life, mortality and costs

Fuchs S, Henschke C, Blümel M, Busse R: Disease management programs for type 2 diabetes in Germany—a systematic literature review evaluating effectiveness. Dtsch Arztebl Int 2014; 111: 453–63. DOI: 10.3238/arztebl.2014.0453

Szecsenyi J, Rosemann T, Joos S, Peters-Klimm F, Miksch A. German diabetes disease management programs are appropriate for restructuring care according to the chronic care model: an evaluation with the Patient Assessment of Chronic Illness Care instrument. Diabetes Care 2008;31:1150–1154 Laxy M, Stark R, Meisinger C, Kirchberger I, Heier M, von Scheidt W, Holle R:The effectiveness of German disease management programs (DMPs) in patients with type 2 diabetes mellitus and coronary heart disease: results from an observational longitudinal study. Diabetol Metab syndr 2015: 7:77



Other concepts aiming at improving care for patients with chronic diseases

- Regional integration of care services
 - small regions, promising effects
- Telemedicine
 - mixed effects so far
- Care pathways between primary care physicians and specialists (e.g. general practitioners and cardiologists) based on contracts (§73b and §73c social code book V)
 - First promising results



Multimorbidity – What are we talking about?

Multimorbidity is rather a rule than an exception with patients 70+





A typical patient

Mrs. Meyer or Mrs. Yang

79 years old



- Hypertension, Diabetes, Osteoarthritis, Osteoporosis, COPD
- 12 separate medications (19 doses per day, 5 times)
- 14 non-pharmacological activities recommended

Result in:

- High risk of adverse events!
- High risk of hospitalisation
- Diverse and frequent monitoring requirements!
- Quality of life?
- Costs!



What do multimorbid patients ask for?

Easy access to care providers (e.g. via telephone)

Regular assessment of risks

Individualized, evidence based care planning, goal-setting, continuous patient-provider relationship

Support for family care-givers

No avoidable hospitalisations





Multimorbidity care management

Selection/Composition of intervention elements?

 Depression and/or pain part in 80% of the most frequent (mutually exclusive) patterns of multimorbidity in high risk patients (Freund Pop Health Man 2012)



- Scripted telephone monitoring conducted by medical assistants is feasible and safe (Freund Z Evid Fort Q 2011)
- Assessment, individualised care planning and monitoring are integral parts

Annals of Internal Medicine

ORIGINAL RESEARCH

Medical Assistant-Based Care Management for High-Risk Patients in Small Primary Care Practices

A Cluster Randomized Clinical Trial

Tobias Freund, MD; Frank Peters-Klimm, MD; Cynthia M. Boyd, MD; Cornelia Mahler, MA; Jochen Gensichen, MD; Antje Erler, MD; Martin Beyer, MA; Matthias Gondan, PhD; Justine Rochon, MSc; Ferdinand M. Gerlach, MD; and Joachim Szecsenyi, MD

Background: Patients with multiple chronic conditions are at high risk for potentially avoidable hospitalizations, which may be reduced by care coordination and self-management support. Medical assistants are an increasingly available resource for patient care in primary care practices.

Objective: To determine whether protocol-based care management delivered by medical assistants improves care in patients at high risk for future hospitalization in primary care.

Design: Two-year cluster randomized clinical trial. (Current Controlled Trials: ISRCTN56104508)

Setting: 115 primary care practices in Germany.

Patients: 2076 patients with type 2 diabetes, chronic obstructive pulmonary disease, or chronic heart failure and a likelihood of hospitalization in the upper quartile of the population, as predicted by an analysis of insurance data.

Intervention: Protocol-based care management, including structured assessment, action planning, and monitoring delivered by medical assistants, compared with usual care.

Measurements: All-cause hospitalizations at 12 months (primary outcome) and quality-of-life scores (12-Item Short Form Health Survey [SF-12] and EuroQol instrument [EQ-5D]). Results: Included patients had an average of 4 co-occurring chronic conditions. All-cause hospitalizations did not differ between groups at 12 months (risk ratio [RR], 1.01 [95% CI, 0.87 to 1.18]) and 24 months (RR, 0.98 [CI, 0.85 to 1.12]). Quality of life (differences, 1.16 [CI, 0.24 to 2.08] on SF-12 physical component and 1.68 [CI, 0.60 to 2.77] on SF-12 mental component) and general health (difference on EQ-5D, 0.03 [CI, 0.00 to 0.05]) improved significantly at 24 months. Intervention costs totaled \$10 per patient per month.

Limitation: Small number of primary care practices and low intensity of intervention.

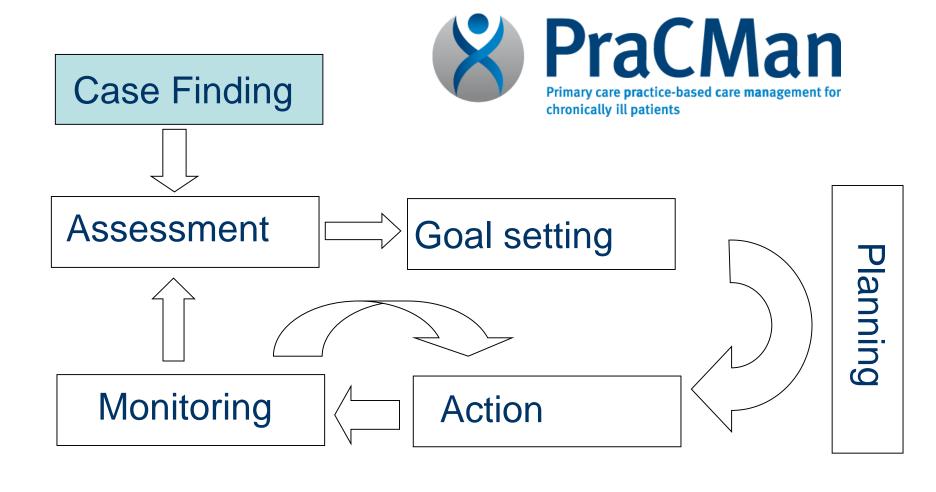
Conclusion: This low-intensity intervention did not reduce allcause hospitalizations but showed positive effects on quality of life at reasonable costs in high-risk multimorbid patients.

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For author affiliations, see end of text.

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Terminübersicht

Verah Musterfrau 0987654321

» Ausloggen

Patientenansicht

Freddi Wunder, 1971-08-19

Patientenansicht

Export Hilfe

Anderen Patient wählen

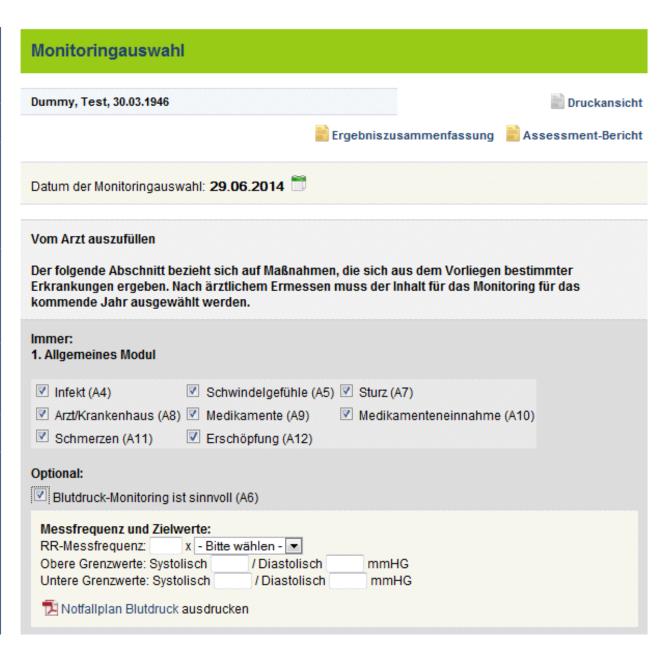
Verwaltung

	Status	Datum
Assessment	~	22.05.2014
PHQ-9	0	22.05.2014
Hilfeplan Teil 1		
Ergebniszusammenfassung	×	
Monitoringauswahl	*	
Hilfeplan Teil 2		
Zielvereinbarung	×	
Monitoring & 🚡	*	

Bearbeiten









Notfallplan Blutdruck

Alarmzeichen:

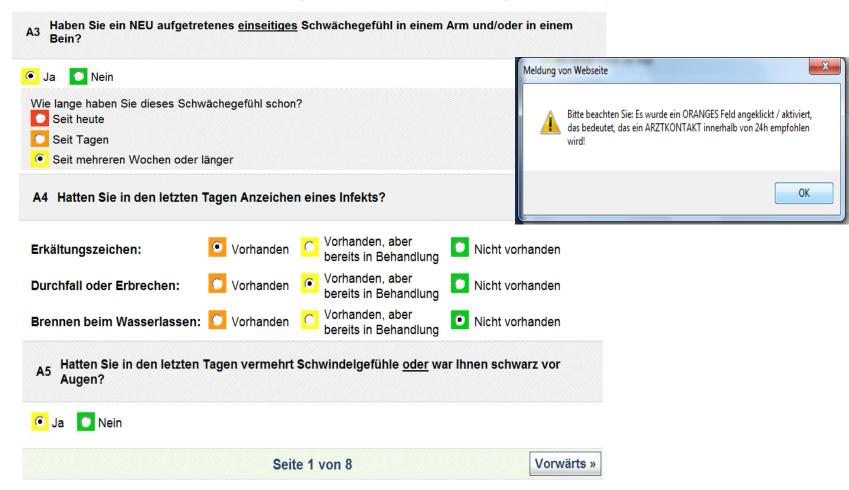
- Systolischer Blutdruckwert (1. Wert) liegt über dem festgelegten Grenzwert
- frühmorgendlich auftretender Kopfschmerz, besonders im Bereich des Hinterkopfes
 - > Herzklopfen, Herzrasen, unregelmäßiger Herzschlag
 - > Schwindel , Nervosität, Ohrensausen
 - Nasenbluten
 - Brustschmerzen
 - > starke Luftnot bei Belastung, etwa beim Treppensteigen

Was können Sie selber tun?

Bei ein	em Blutdruck oberhalb	
von	mmHg	
Nehmen Sie		
Und messen <u>nach Minuten</u> noch einmal nach.		
ist der Blutdruckwert dann weiterhin höher als		
_	mmHg	
Rufen Sie uns an!		
Tel:	oder	



Monitoring: "Traffic Light" system





The way forward

- Further development of new disease management programs for single chronic conditions
- Roll- out of care-management in primary care pratices for patients with multimorbidity (software assisted process management, telephonemonitoring)
 - Baden-Württemberg, Thuringia, other federal states



Danke für Ihre Aufmerksamkeit

