Developing a Deprescribing Evaluation Quality Control Instrument

A Veteran Affairs Study

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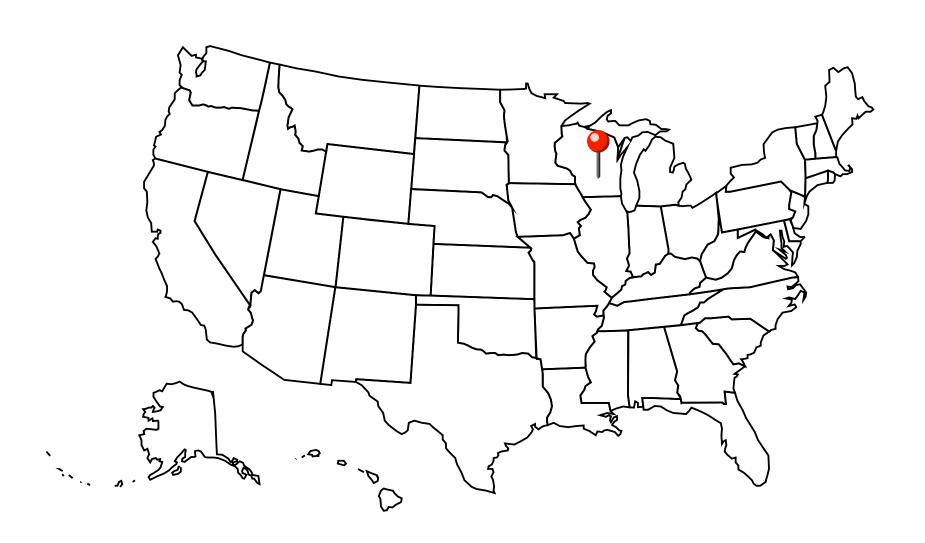
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Disclosure

The views expressed in this presentation are strictly those of the researcher for work done with the Veteran Affairs and the University of Wisconsin.

I appreciate the generous funding support from the **PhRMA Foundation** and the **Madison VA GRECC**.

Objectives

- Overview of research study on the VA
 - Background
 - Study Design
 - Results
 - Discussion and conclusion
- Feedback and suggestions

Background

- Polypharmacy is the use of more than five medications daily.
 - Using too many medications could cause harm.
- Polypharmacy is correlated with Potentially inappropriate medication (PIM),
 - Serious global concern.
- Deprescribing is the supervised withdrawal of potentially inappropriate medication through shared decision-making.
- The VIONE (Vital, Important, Optional, Not Indicated, and Every medication has an indication) tool was developed by the Veteran Affairs (VA) for medication optimization and deprescribing.

VA Approach to Deprescribing



Important, improve quality of life Optional, no major impact whether taken or not Not indicated/ treatment complete

Every medication has a diagnosis/ indication



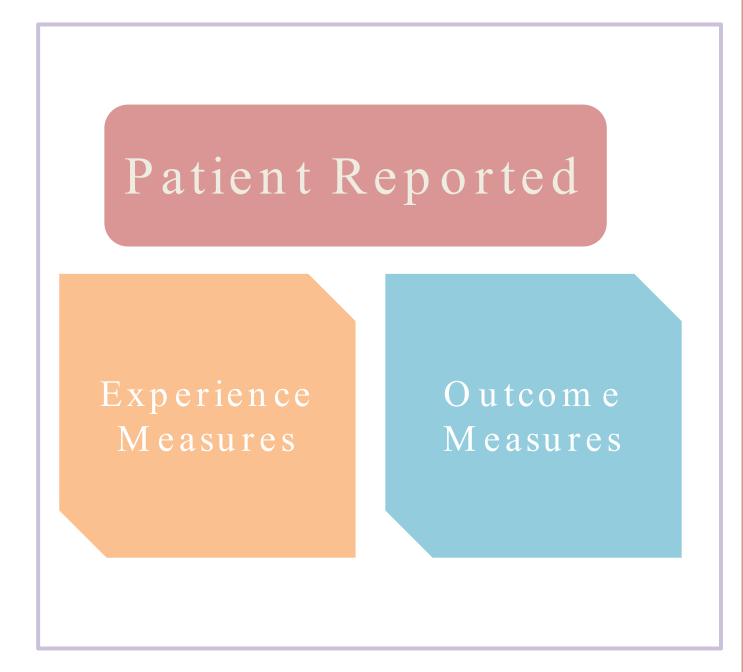


Background

- * Exploring the Veteran's experience after the VIONE deprescribing intervention will help to identify facilitators and barriers.
- ❖ Information eliciting patient responses can immensely improve patient safety and quality of life measures.

Study Aims

- 1. Explore the Veteran's experience of the deprescribing intervention.
- 2. Use the information to develop a Deprescribing Evaluation Quality Improvement (DEQI) instrument.
- 3. Pilot test the DEQI instrument and modify it for broader dissemination to other VA sites for quality improvement.



Study Design

Phase I:
Qualitative
content analysis



Phase II:
Instrument
Development



Phase III: Quantitative study

What did the interview explain about the deprescribing experience?

- 17 Veterans
- Data Collection:
 Sem i-structured
 interviews
- Data Analysis:
 Inductive content
 analysis

How can the qualitative content analysis be transformed into an instrument?

- Develop Instrument
 - Item generation
- Refine Instrument
 - 20 Expert review
 - Cognitive testing
 - Pilot testing
 ~40 Veterans

Does the factor structure confirm the content analysis?

Sam ple:

~300 Veterans

Data Collection:

Mail-in / web-based survey

Data Analysis:

Exploratory and
Confirm atory Factor
Analysis
Reliability

Validity testing

Completed

Ongoing

Future

AIM 1: Explore the Veteran's experience of the deprescribing intervention

Evolved Themes from Veterans on their VIONE deprescribing experience with their pharmacist mapped to the **Deprescribing Ecological Model**

ORGANIZATIONAL AND HEALTH SYSTEM

Perception of the VA system

- Positive perceptions
- Opportunities for improvement

External care coordination

- Care outside VA
- Transportation

INTERPERSONAL

Intervention meeting

- Knowledge and understanding
- Ability to follow recommendations
- Perception of Meeting

Relationships

- Perception of pharm acist
- Respect of Opinion
- Shared Decision
- Support in following recommendation
- Follow-up after deprescribing
- Influence from family and friends

Internal care coordination

- Interprofessional collaboration
- Lab and Blood Tests
- Contact Healthcare Providers

INTRAPERSONAL

Perceptions of medication and related changes

- Change in Medication
- Medication perceptions
- Perception of discontinuing medication
- Challenges with medication
- Medication management
- Prior experience with deprescribing

AIM 1: Explore the Veteran's experience of the deprescribing intervention

INTRAPERSONAL

Perceptions of medication and related changes:

- Change in Medication
- Medication perceptions
- Perception of discontinuing medication
- Challenges with medication
- Medication management
- Prior experience with deprescribing

I was more than ready to get rid of some it [medicines].
-Vet 02

It takes me about 1/2 an hour a week to sort all my medications for a week. Course I'm slow too.

- Vet 09

I would just like to not have all these pills to take. - Vet 09

INTERPERSONAL

Relationships

- Perception of **pharmacist**
- Respect of Opinion
- Shared Decision
- Support in following the recommendations
- Follow-up after deprescribing
- Influence from family and friends

They they take a a personal interest. It isn't just like going to Walgreens or CVS where they are so damn busy don't know if they're coming, are going ...No, I get all the time.

- Vet 17

She [the pharm acist] listens.
- Vet 02

Intervention meeting

- Knowledge and understanding
- Ability to follow the recommendation
- Perception of Meeting

Well, I can do
whatever they tell
me to do as long
as I understand
what they're
talking about.
- Vet 10

I just do what she she tells me to do and take what she tells me her take.

- Ve t 12

Internal care coordination

- Interprofessional collaboration
- Lab and Blood Tests
- Contact Healthcare Providers

And then she [pharmacist] went over it with...the doctor ...And so he [physician] was well aware of what she was doing...Ithink they are a wonderful team ...

- Vet 01

And there is another one...Iron pill that I'm taking ...I think she's gonna wait until the next blood test and I might come off that too.

- Vet 13

AIM 1: Explore the Veteran's experience of the deprescribing intervention

ORGANIZATIONAL AND HEALTH SYSTEM

Perception of the VA system

- Positive perceptions
- Opportunities for improvement

At first, they
[appointments] were phone
conversations, and I think
those were a lot harder
than the video.
-Vet 02

I have very good results with everybody that I'm ... working with me...I'll say it that way...OK, very good, very good - Vet 14

External care coordination

- Care outside VA
- Transportation

"I've got a prim ary care outside the VA. I've got a prim ary care inside the VA and there's too much conflict there, because one test me and then the next one tests me.

- Vet 04

You know what I give them [transportation] myappointment time ... and then the driver doesn't show up that day.

- Vet 01

Discussion - Phase 1

AIM 1: Explore the Veteran's experience of the deprescribing intervention

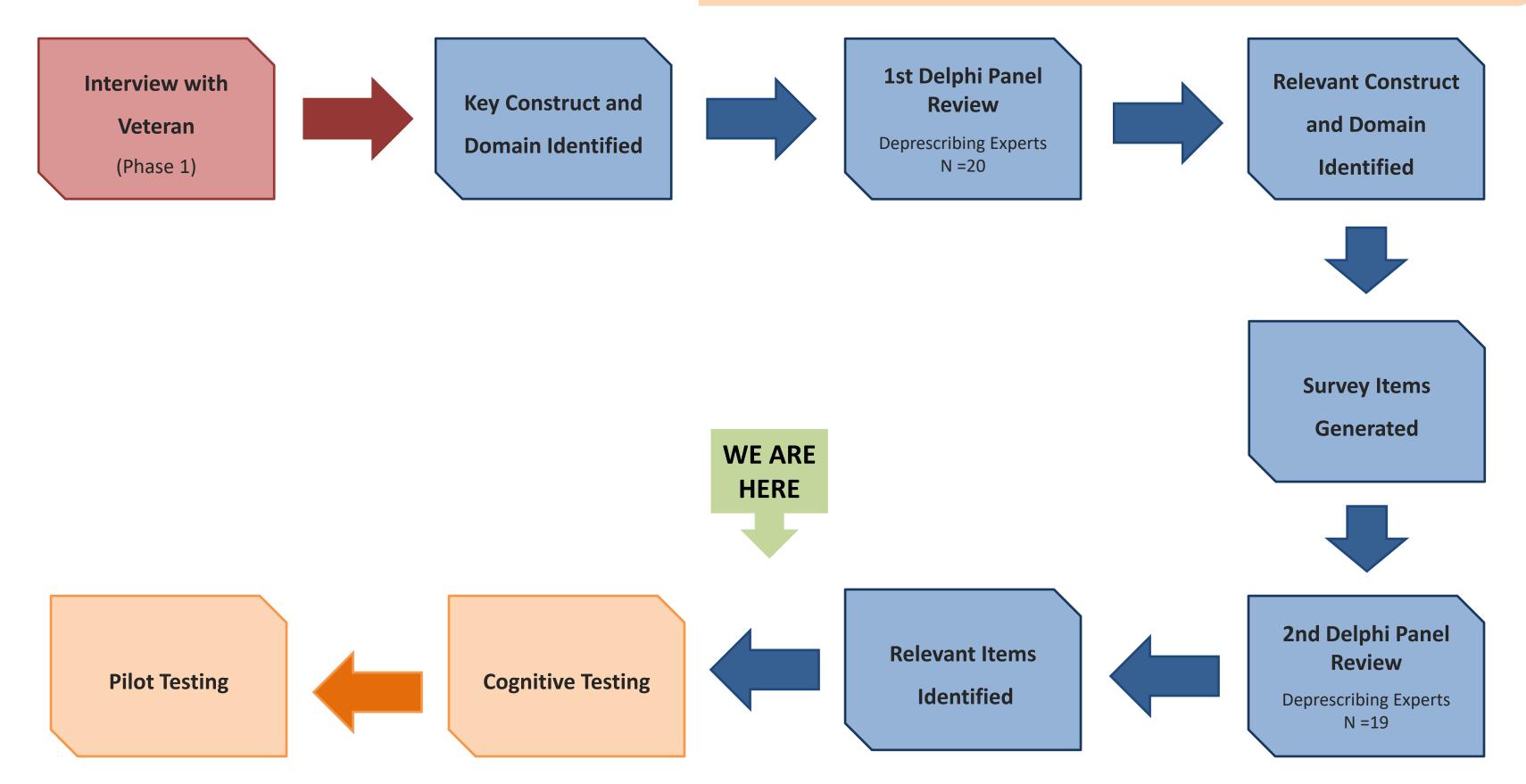
- Most Veterans agreed with their pharmacist's recommendations.
- Most Veterans felt actively involved in medication decision-making.
- Veterans mostly deferred to their pharmacist's recommendations
 - Some needed reassurance from their primary care providers.
- Some were reluctant to make changes if they had experienced prior adverse withdrawal effects.
- Some sought additional information regarding the reasons for suggested medication changes.
- Difficulties in getting medications that a specialist outside the VA system prescribed.

Recommendations

- Support autonomy and shared decision-making.
- Confirm ability and willingness to follow instructions.
- **Establish well-defined follow-up plans.**
- * Address medication access to prescriptions from non-VA providers.

Phase 2 - Process

AIM 2: Design and develop a Deprescribing Evaluation and Quality Improvement (DEQI) instrument.



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Deprescribing Expert Reviews

- Response rate was 95% in rounds 1 and 2.
- ROUND 1: Seven constructs and dimensions (19%) were considered not relevant and eliminated.
- ROUND 2: Nineteen items (25%) considered not relevant were eliminated for precision and efficiency
 - ✓ Duplicates identified
 - ✓ Items modified
 - ✓ Items combined
 - ✓ New items added
- FINAL: the 75-item survey was reduced to 53 items; five new items were added, resulting in 58 items.

Phase 2 – current stage

AIM 2: Design and develop a Deprescribing Evaluation and Quality Improvement (DEQI) instrument.

- Cognitive Testing
- With a sample of 10-16 Veterans
 - Clarity of instructions
 - Items
 - Response scales
 - Ease of completion



Phase 2

AIM 3: Pilot test the DEQI instrument and modify it for broader dissemination to other VA sites.



- 30 40 Veterans.
- Procedures in the survey administration.
- Integration into the system.

Survey Administration



Data Collection

- Survey Responses
- Professional feedback



Data Analysis



Modify instrument

Future Step - Phase 3

- Instrument Validation
 - Sam ple:
 - o ~300 Veterans
 - Data Collection:
 - o Mail-in / web-based survey
 - Data Analysis:
 - o Exploratory and Confirm atory Factor Analysis
 - o Reliability
 - Validity testing

Special Thanks To:

- You all
- PhRMA Foundation
- Partners at the VA
- My Advisor Dr. Betty Chewning

