

# A Theoretical Framework for Urinary Tract Infection Prevention and Management in Community-Dwelling Older Adults with Dementia

Kuan-Ching Wu<sup>1</sup>, Basia Belza<sup>1</sup>, Donna Berry<sup>1</sup>, Frances Lewis<sup>1</sup>, Oleg Zaslavsky<sup>1</sup>

<sup>1</sup>University of Washington, School of Nursing

## INTRODUCTION

- Persons living with dementia (PLWD) face higher urinary tract infection (UTI) admission rate compared to those without dementia. To date, there is a lack of UTI prevention and management framework for community-dwelling PLWD.

## AIMS

1. Identify factors and outcomes of UTIs in community-dwelling PLWD.
2. Adapt a framework for UTI prevention utilizing Bronfenbrenner's 1977 ecological model.
3. Summarize preventive measures from UTI protocols specifically for community-dwelling PLWD by applying the adapted framework.

## METHODS

- Scoping review using PubMed, Cochrane, and Google Scholar
- Inclusion criteria: 1964 to 2022 utilizing the keywords and concepts of risk factors, UTI management and prevention, community-dwelling older adults, and dementia.

## RESULTS

- UTIP framework was generated with 4 levels of risk factors and 4 domains of outcomes.
- We proposed seven themes of preventive measures and a table of care management opportunities according to dementia severity and caregivers' involvement.

## ACKNOWLEDGEMENTS

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*We propose an UTIP framework and a table of UTI prevention and care management recommendations for persons living with dementia (PLWD) and their caregivers.*

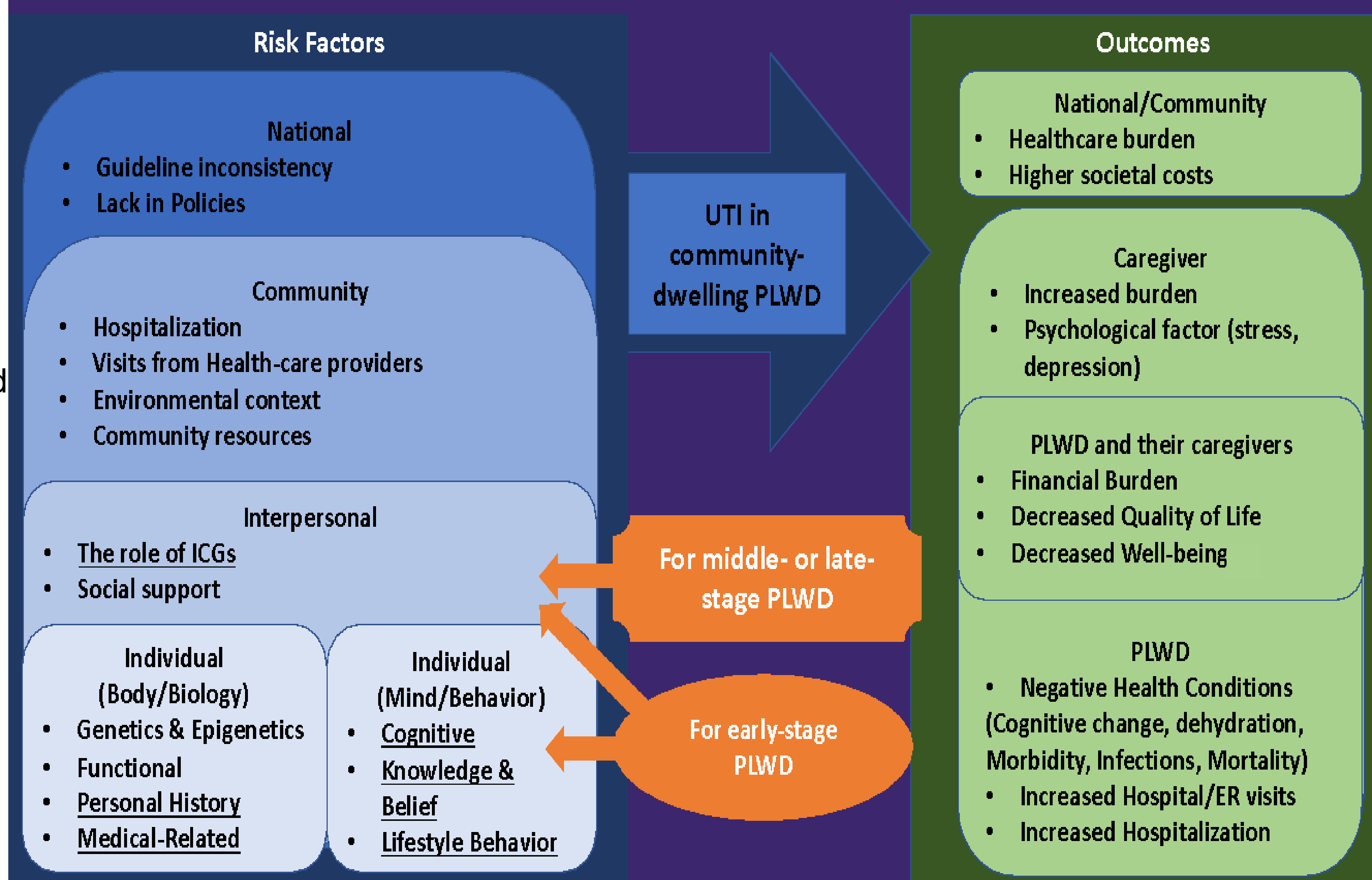


Figure 1. A conceptual framework for UTI prevention (UTIP) for community-dwelling persons living with dementia.

Figure 2. Themes of UTI preventive measures for community-dwelling PLWD and their caregivers.

Physical Activity and Mobility	• Walkability
Behavioral Therapy	• Behavioral Therapy Program
Personal Hygiene	• Genital hygiene • Hand hygiene
Phytotherapy	• Chinese herbal medicine • Cranberry products
Dietary	• Hydration • Pineapple • Probiotics
Compounds	• d- Mannose • Methenamine Hippurate
Hormone	• Vaginal Estrogens

For information on the following scan the QR code:

- 1) UTI prevention recommendations for community-dwelling PLWD and their caregivers
- 2) References for Figure 1



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