## alzheimer's $\Omega$ association<sup> $\circ$ </sup>

**GREATER MICHIGAN CHAPTER** 



#### We Are Pleased to Present

National Speakers Universal Issues

# **Issues in Aging**

Virtual Event: Join us on **Zoom** 

#### MONDAY • APRIL 19, 2021 • 9 AM - 3:40 PM



#### 2021: Team Approach to Frailty Care

#### AGENDA:

8:45 am | Sign In

9:00 am | Cannabinoids for Agitation in Dementia: Clearing the Smoke



Krista Lanctot, PhD, Senior Scientist Sunnybrook Research Institute, Professor of Psychiatry and Pharmacology, and Vice-Chair, Dept. of Psychiatry, University of Toronto

10:25 am | 5 minute slide break

## 10:30 am | Caregiving in Diverse Populations



Sheria Robinson-Lane, PhD, RN, Asst. Professor University of Michigan, Dept. of Systems, Populations and Leadership

12:00 pm | Lunch & email check

12:30 pm | Aging in Place: Key to Good Life



Susan Stark PhD, OTR/L, Assoc. Professor Occupational Therapy, School of Medicine Washington University in St. Louis

#### 2:00 pm | Love is Listening: Dementia Without Loneliness



Michael Verde, MA Founder of Memory Bridge Bloomington, Indiana

3:30 pm | Q&A and Evaluations

#### **OBJECTIVES:**

- · Be aware of current treatments for agitation in dementia
- Know the pharmacologic rationale for cannabinoid use in dementia
- · Describe results for the most recent nabilone trial
- Discuss national trends in caregiving
- · Identify dementia-specific concerns related to caregiving
- Describe clinical implications and research directions
- Understand how the home environment can influence behavior
- · Define home modifications
- Recognize the primary source of suffering of people with dementia is emotional isolation
- · Recognize that the chief contributing factor to the emotional isolation of people with dementia
- Distinguish recognizing a unique person from caring for a "person with dementia"
- Describe the differences phenomenologically between "care" as an action verb and "care" as a being verb

www.iog.wayne.edu www.alz.org/gmc

Any questions?

at: 248-719-0640 or

6 CREDITS FOR:

**Occupational Therapists** 

**OTAs** • Physical Therapists

PTAs • Case Management

Educators &

**General Attendance** 

Contact: Donna MacDonald

donnamacdonald@wayne.edu

Refund Policy: Registrations accepted on a first-come, first-served basis. Substitutions are accepted at any time. No-shows and late cancellations will apply payment for this event to any future WSU, Institute of Gerontology event.



\$30 Student/Family Social Workers • Nurses Caregivers \$15 Nursing Home Administrators

REGISTER HERE

Professionals

## 2021 Issues In Aging

Waltonwood, PACE - Southeast Michigan, Henry Ford Health System 3
Vista Grande Villa, The Senior Alliance, <i>A Meaningful Life With Alzhiemer's Disease</i>
Cannabinoids for Agitation in Dementia – Krista Lanctot, PhD 5
Wallet Study, Brookdale Senior Living, Alzheimer's Association - Greater Michigan Chapter
Ciena Healthcare, Homewatch Caregivers, Michigan Alzheimer's Disease Center
Caregiving in Diverse Populations – Sheria Robinson-Lane, PhD, RN . 17
Sunrise Senior Living, Senior & Caregiver Resource Network, BrightStar Care, Home Care   Medical Staffing
Heart to Heart Hospice, Center for Financial Planning, Inc., Successful Aging Through Financial Empowerment, Heartland   ManorCare
Aging in Place: Key to Good Life – Susan Stark PhD, OTR/L 34
Memory Research, Parents Changing Spaces, Jewish Senior Life
Presbyterian Villages of Michigan, Rainbow Rehabilitation Centers, WSU, IOG Financial Vulnerability Survey
The Caring of People with Dementia as a Calling – Michael Verde, MA. 75



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(Caregiver Assistance Resources and Education Program) WEB: www.henryford.com/familycaregivers Phone: (313) 874-4838

Email: CaregiverResources@hfhs.org

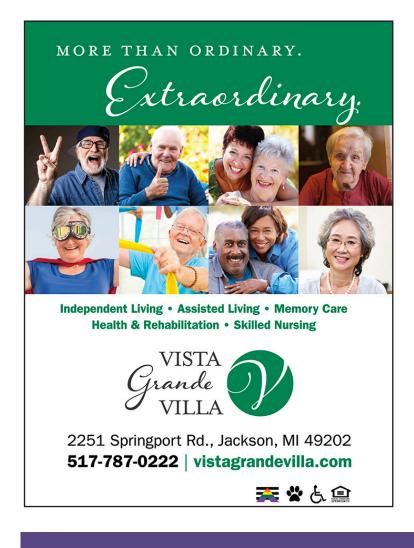
Support groups and classes are being offered virtually with the option to join by phone, tablet, iPad, or computer.



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Join our Facebook group, "Henry Ford Health System Family Caregivers," and become part of an online community of caregivers.





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## ANNUAL ONE-OF-A-KIND CONFERENCE

SAVE THE DATE Nov. 5, 2021 This conference brings togather healthcare professionals, caregivers and those living with Alzheimer's into a shared conversation

## A Meaningful Life with Alzheimer's Disease

Learn about state-of-the-art research, treatments and caregiving options for those living with cognitive decline. This is a collaboration between the WSU, Institute of Gerontology and the Greater Michigan Chapter of the Alzheimer's Association.



Alzheimer's Disease ... Diabetes of the Brain? Scherrie Keating, RN BSN, CDCES, CDC, NDPP, Life Coach, CDP

alzheimer's  $S association^*$ 

Stay up to date. View WSU, Institute of Geronotology lists at: url will go here



Impactful Caregiving - Step by Step

Jill Gafner Livingston BSBM, CDP, CADDCT





## **Cannabis for Agitation in Sementia: Clearing the Smoke**



Krista Lanctôt, PhD

Senior scientist Sunnybrook Health Sciences Centre 2075 Bayview Ave., Room FG 21 Toronto, ON M4N 3M5

Phone: 416-480-6100, ext. 2241 Fax: 416-480-6022 Email: krista.lanctot@sri.utoronto.ca

#### **Research Summary:**

Neuropsychiatric symptoms associated with illness include mood changes, apathy, aggression and cognitive changes. These are common sequelae of many central nervous system disorders such as dementia, traumatic brain injury, cerebrovascular disease and stroke. Dr. Lanctôt's goal is to optimize treatment of these neuropsychiatric symptoms.

Her research addresses this goal by determining the underlying neurobiology of neuropsychiatric symptoms, examining predictors of treatment response, using novel pharmacological agents and carefully considering adverse drug events. Dr. Lanctôt's early focus was on the neurobiology of behavioural disorders associated with dementia. The goal of this research was to determine if behavioural subtypes can be linked to underlying neurochemical or neuropathologic dysfunction. A variety of tools including neuroimaging, serum biomarkers and pharmacologic challenges are used in combination with pharmacotherapeutic trials. Her group also identifies and assesses novel pharmacologic, exercise and dietary interventions for neuropsychiatric symptoms.

This research will contribute to our understanding of the link between dysfunction in various neurotransmitters, proteins, lipids and metabolites and neuropsychiatric symptoms. As such, it may provide the background for novel therapies and allow Dr. Lanctôt's team to predict response to interventions based on neurobiological subtypes.

A second focus of her research evaluates the impact of pharmacologic treatments at a population level, which includes measuring relevant health outcomes and quality of life, and modelling cost-benefit, cost-effectiveness and cost-utility of pharmacotherapies.

# Cannabis for agitation in dementia: clearing the smoke

Issues in Aging Conference, April 19, 2021

14 2

7 h

Sunnybrook

HURVITZ BRAIN SCIENCES PROGRAM

Krista L. Lanctôt, PhD Director, Neuropsychopharmacology; Senior Scientist, Sunnybrook Research Institute; Professor of Psychiatry and Pharmacology, Vice-Chair, Basic and Clinical Science, University of Toronto

UNIVERSITY OF TORONTO

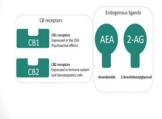
#### CFPC Col Templates: Slide 1

#### Faculty/Presenter Disclosure

- Relationships with commercial interests:
- Grants/Research Support: Cerevel (paid to institution)
   Speakers Bureau/Honoraria: none to declare
- Consulting Fees: BioXel Therapeutics, Inc., Cerevel Therapeutics, Praxis Precision Medicines, Kondor, IGG Pharma
- Other: none to declare
- Not related to content of presentation

#### Endocannabinoid system (ECS)

THE ENDOCANNABINOID SYSTEM (ECS)

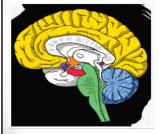


- widespread neuromodulatory system in the CNS
- comprised of cannabinoid receptors, endogenous cannabinoids (endocannabinoids)
- identification triggered exponential growth of studies exploring ECS as a possible therapeutic target

#### Learning objectives

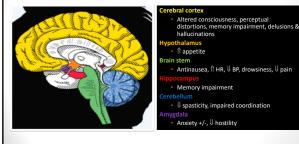
- · At the end of this presentation learners will:
  - list the major cannabinoid receptors and their functions
  - summarize the evidence supporting use of cannabinoids in Alzheimer's disease
  - describe new results on efficacy and safety of nabilone for treatment of agitation in dementia

## Stimulation of the ECS has psychotropic effects



Launch poll 1

#### Stimulation of the ECS has psychotropic effects



Cannabinoid	MOA	Indication
dronabinol (Marinol ®)	<ul><li>synthetic THC</li><li>CB1/CB2 partial agonist</li></ul>	Antiemetic Appetite and weight loss (AIDS)
nabilone (Cesamet ®)	<ul><li>THC derivative</li><li>CB1/CB2 partial agonist</li></ul>	Antiemetic
THC and cannabidiol (Sativex *)	<ul> <li>Cannabis extract</li> <li>CB1/CB2 agonist + CB1 antagonist</li> </ul>	Neuropathic pain in multiple sclerosis
THC (Namisol ®)	pure natural THC (>98%)	n/a
Cannabidiol (Epidiolex®)	CB modulator	Lennox-Gastaut syndrome and Dravet syndrome

#### Cannabis

- · 2 major neuroactive components in cannabis Δ9-tetrahydro-cannabinol (THC) psychoactive
   cannabidiol (CBD) non-psychoactive
  - non-psychoactive indicates lack of a 'high'
- Different strains have different ratios
- C. sativa usually has higher THC:CBD ratios than C. indica Sativa strains often have more psychotropic effects, and are more stimulating
- Indica strains are typically more sedating
- THC activates the endocannabinoid system
- CDB enhances endocannabinoid signaling interacts with many non-endocannabinoid signaling systems: It is a "multi-target" drug



#### **CBD** and THC CBD may potentiate some of THC's effects Clinically Pathological processes reduces THC's psychoactivity to enhance its tolerability and widen its therapeutic window Mild sedation Endocannabinoid signaling modulates counteract some functional consequences of CB1 activation in the brain, possibly by indirect enhancement of adenosine A1 receptors activity Anti-anxiety Ferrer 2014] preparations with high CBD:THC ratios are less likely to cause psychotic symptoms Increase appetite compared to low CBD:THC ratios Decrease pain Improve agitation?

isky et al 20

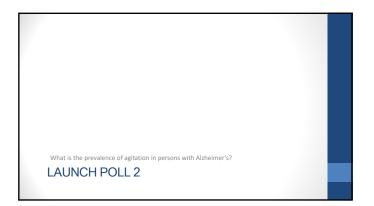
#### CB1 and CB2 activation in Alzheimer's disease (AD): possible benefits

#### neuroinflammation

- excitotoxicity
- mitochondrial dysfunction
  - oxidative stress Loss of endogenous cannabinoids in AD leads to loss of protection from excitotoxicity

numerous AD pathological processes [Aso &

Reviewed by Liu et al, 2016



#### Agitation-impact

#### Caregivers

- caregiver burden [Rabins et al 1982, Nygaard 1988, Keene 1999]
- institutionalization [Steele et al 1990, Cohen 1993, Okura 2011]
  principal management problem
- principal management problem in nursing homes [Cohen-Mansfield 1986]

## Patients physical restraints [Evans 1988]

- health problems (falls & weight loss) [Merriam et al 1988, Marx 1990]
- functional decline [Lopez et al 1999]
- risk of death [Walsh et al 1990, Allen et al 2005]

#### Agitation as a treatment target: Prevalence

Meta-analysis of 48 studies in AD
Agitation/aggression is common in AD – 40% (95% CI 33-46%)



#### Agitation is well-defined in AD

- Diagnostic criteria for agitation in cognitive disorders:
   in patients with cognitive impairment
- in patients with cognitive impairment or dementia
- behavior consistent with emotional distress
  manifesting excessive motor activity,
- manifesting excessive motor activity, verbal aggression, or physical aggression
- cause excess disability and are not solely attributable to another disorder (psychiatric, medical, or substancerelated)

#### Agitation in cognitive disorders: International Psychogeria Association provisional consensus clinical and research

Jeffing Camming, "Jocobo Minzler," Henry Brodzn, "Mary Sono, <sup>4</sup> Sabe Banerae, D.P. Devanona, <sup>4</sup> Seoge Cauthier, "Robert Howard, <sup>4</sup> Instructurd, "Contantine, C-Landon, "Elsen Polandi, "Anna Portalismon," Edipardo Beich, Colstano Company, <sup>4</sup> Dould Schler, <sup>4</sup> Mark Wortmann,<sup>4</sup> and Kate Zhong<sup>10</sup> Water Mark Lang, Kate Mark, <sup>4</sup> Mark Wortmann,<sup>4</sup> and Kate Zhong<sup>10</sup> Water Mark Lang, Kater Mark, <sup>4</sup> Mark Wortmann,<sup>4</sup> and Kate Zhong<sup>10</sup> Water Mark Lang, Kater Mark, <sup>4</sup> Mark Wortmann,<sup>4</sup> Kate Zhong<sup>10</sup>

#### Cummings et al, 2015



#### Cannabinoids trials in AD

#### THC—2 negative trials

- N=22 dementia and NPS, double-blind, repeated cross-over, 2 wks, no change NPS (van Den Elsen 2015a)
- N=24 dementia and NPS, double-blind 6 wk RCT, no change NPS (Van den Elsen 2015b)
- Dronabinol (synthetic THC)—positive trials, few study participants/short duration 11 anorexic + AD, cross over 2.5 mg/d for 6 weeks, UCMAI agitation 2°, tolerability issues (Volicer et al 1996)
- Subset Volice via 1990)
  24 AD + agitation, 2.5 mg/d for 2 weeks (n=7), ↓ nocturnal motor activity, tolerated (Mahlberg et al, 2007)
  2 AD + nighttime agitation, cross-over 2.5 mg/d for 2 weeks, ↓ nocturnal motor activity, tolerance (Walther et al., 2011)

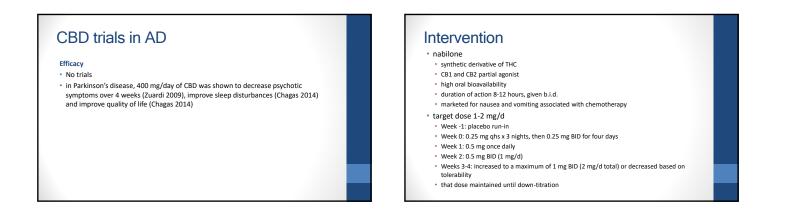
#### Nabilone (THC analogue)—no trials

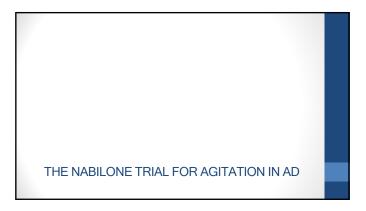
Case study (N=1), AD + NPS, 0.5 mg BID x 6 wks, ↓ agitation, well tolerated (Passmore, 2008)

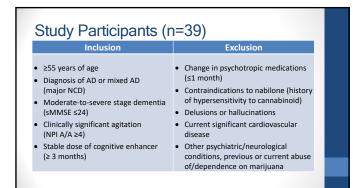


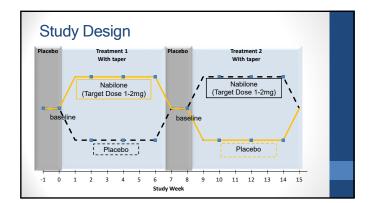
- Double blind, placebocontrolled, cross-over trial in 38 patients with agitation and
- efficacy and safety of nabilone (1-2 mg/d) versus placebo (6 weeks each)

Alzheimer's Drug Discovery Foundation

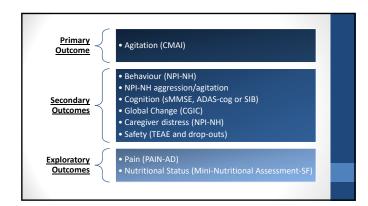


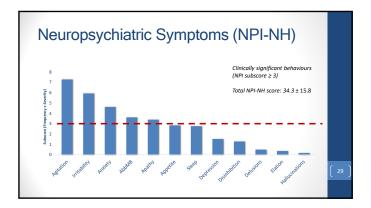




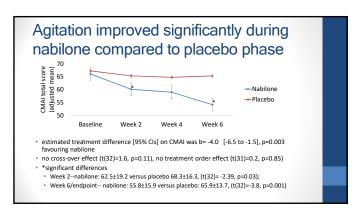


Baseline Charact	eristics
CMAI	67.9±17.6
Met IPA criteria for agitation	97%
NPI-NH total	34.3±15.8
NPI-NH agitation/aggression	7.1±3.3
NPI-NH total caregiver distress score	12.7±7.9
MMSE	6.5±6.8
CGI severity	
Moderately ill	50%
Markedly ill	29%
Severely ill	18%
Extremely ill	3%

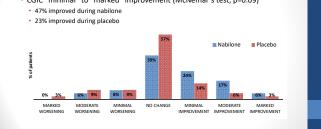




Baseline Demograp	hics	
Age	87±10	
Sex (%M)	77%	
% inpatient	72%	
No. concomitant psychotropic medications	1.8±0.7	
antidepressant	87 %	
cholinesterase inhibitor	53%	
atypical antipsychotic	45%	
memantine	29%	
benzodiazepine	5%	



#### CGIC during nabilone versus placebo phases • CGIC "minimal" to "marked" improvement (McNemar's test, p=0.09)



#### Tolerability

- mean nabilone dose 1.6±0.5mg/day
- 53% 2 mg/day, 13% 1.5 mg/day, and 34% 1 mg/day
- more sedation during nabilone (17 vs. 6 McNemar's test, p=0.02)
   no differences in treatment-limiting sedation (5 vs. 1 McNemar's test, p=0.22)
- did not contribute significantly to response
- no difference in
- falls (8 vs. 7 McNemar's test, p=1.0)
- SAEs (5 vs. 4 McNemar's test, p=0.69)
- study discontinuations (3 vs. 2 McNemar's test, p=0.08)
- deaths (1 vs. 1)

#### Agitation-secondary outcomes

- NPI-NH total significantly lower (b= -4.6 [-7.5 to -1.6], p=0.004) during nabilone
- NPI-agitation/aggression was significantly lower (b=-1.5 [-2.3 to -0.62], p=0.001) during nabilone
- NPI-NH total caregiver distress scores were significantly lower (b= -1.7 [-3.4 to =0.7], p=0.041), during nabilone
- CMAI IPA subdomain scores (physical aggression + physical nonaggression + verbal aggression) treatment difference also favoured nabilone over placebo (b= -3.8 [-5.8 to -1.7], p=0.001)

#### Weight loss and pain

#### Weight loss

- common in AD
   About 1/3 of patients with AD, with risk increasing as the disease progresses
- consequences
- loss of muscle mass and strength, greater risk of falls, more functional dependence and lower quality of life
- associated with agitation

# Pain • common in AD [Pickering et al 2000] but difficult to identify [Herr 2001]

- may be undertreated [Pickering 2000, Herr 2001]
- associated with agitation [Husebo et al 2011, 2013]

#### Cognition

- $\,$  significant difference in cognition (MMSE) (b= 1.1 [0.1 to 2.0], p=0.026) that favoured nabilone
- MMSE  ${\leq}15\,$  (n=25), there was a significant difference in SIB score (b= -4.6 [-7.3 to -1.8], p=0.003), that favoured placebo
- ADAS-Cog scores (n=3) not analyzed

#### **Results: PAIN-AD**

- PAINAD: The total score ranges from 0-10 points
- 1-3=mild pain; 4-6=moderate pain; 7-10=severe pain
- ranges based on a standard 0-10 scale of pain, but have not been substantiated in the literature for this tool
- Baseline average 2.6±1.4
- There were no treatment differences on the PAINAD scale (b= 0.03 [-0.22 to 0.27], p=0.82)

#### **Results: MNA-SF**

- MNA-SF: Max 14 points.
- 0-7 malnourished; 8-11 at risk of malnutrition; 12-14 normal
- Baseline average 8.7±2.9
- $\circ$  There were significant treatment phase differences on the MNA-SF score (b= 0.2 [0.02 to 0.4], p=0.03), favouring nabilone
- Average baseline weight: 67.9±14.1 kg
- No significant difference in weight change (kg) (b=0.01 [-0.69 to 0.71], p=0.97)

Responder	Analysis	s: NPI			
	CGI Responder (n = 17)	CGI Non-responder (n = 19)	T or $\chi^2$	df	P-value
Delusions	0.6 ± 1.1	0.5 ± 1.1	-0.306	34	0.762
Hallucinations	0.2 ± 0.8	0.2 ± 0.5	-0.367	34	0.716
Agitation	6.7 ± 3.0	8.2 ± 3.1	1.538	34	0.133
Depression	2.4 ± 3.3	0.7 ± 1.4	-2.062	34	0.047
Anxiety	6.8 ± 4.5	2.9 ± 3.8	-2.798	34	0.008
Elation	0.8 ± 2.1	0 ± 0	-1.618	16	0.125
Apathy	4.7 ± 3.2	2.4 ± 3.4	-2.052	34	0.048
Disinhibition	0.9 ± 1.8	1.4 ± 2.7	0.697	34	0.491
Irritability	6.5 ± 3.1	5.7 ± 4.3	-0.580	34	0.566
Aberrant Motor Behaviour	4.4 ± 4.5	3.1 ± 3.7	-0.913	34	0.368
Sleep	2.6 ± 4.3	3.2 ± 3.5	0.477	34	0.636
Appetite	3.3 ± 4.3	2.2 ± 3.4	-0.929	34	0.359
Total	39.8 ± 16.4	30.5 ± 14.6	-1.809	34	0.079

## Responder Analysis: demographics and vitals

	CGI Responder (n = 17)	CGI Non-responder (n = 19)	Τ or χ²	df	P- value
Male	11 (64.7%)	16 (84.2%)	1.820	1	0.255
Age	83.0 ± 12.3	90.2 ± 7.2	2.098	25.3	0.046
Weight in kg	70.7 ± 13.7	65.1 ± 15.0	-1.169	34	0.250
Height in cm	$167.5 \pm 8.8$	164.2 ± 12.3	-0.904	34	0.373
BMI	25.2 ± 4.4	23.9 ± 3.7	-0.967	34	0.341

#### Biomarkers of nabilone response

- Oxidative stress and neuroinflammation
  - mechanistically relevant for ECS
- cytokines previously associated with agitation [Ruthirakuhan et al 2018]
- + lower baseline TNF- $\!\alpha$  associated with decreases in agitation in the nabilone phase only (b=1.14, p=.045)
- 24-S-hydroxycholesterol (cerebrocholesterol (Cchol))
   elevated brain cholesterol (reduced serum Cchol), associated with reduced membrane fluidity, preventing ligand binding to CB1
- reduction in the production of Cchol due to neuronal cell death
- Cchol associated with baseline agitation (CMAI IPA) (F(1,36)=4.95, p=.03)
- did not predict response to nabilone

	CGI Responder (n = 17)	CGI Non-responder (n = 19)	T or χ <sup>2</sup>	df	P-value
sMMSE	8.7 ± 7.8	4.6 ± 5.4	-1.785	32	0.084
CMAI Total	74.4 ± 17.0	63.8 ± 16.9	-1.866	34	0.071
Physical Aggressive	21.9 ± 11.2	22.4 ± 11.6	0.112	34	0.911
Physical Non-aggressive	25.7 ± 8.2	22.7 ± 8.1	-1.106	34	0.277
Verbal Aggressive	8.1 ± 3.8	8.1 ± 3.7	-0.005	34	0.996
Verbal Non-aggressive	18.7 ± 6.8	10.7 ± 4.7	-4.146	34	<0.0005
MNA-SF	8.4 ± 3.0	9.1 ± 2.8	0.717	34	0.479
PAIN-AD	3.3 ± 1.3	2.2 ± 1.4	-2.561	34	0.015

<ul> <li>placebo controlle</li> </ul>	d double-blind cross-over trial
<ul> <li>no significant ca</li> </ul>	rry-over or treatment order effects detected
<ul> <li>nonpharmacolog</li> </ul>	gical interventions before trial, placebo run-in and washout, variable dose
<ul> <li>nabilone treatme weeks</li> </ul>	nt was associated with a significant reduction in agitation over 6
tolerability good	
<ul> <li>increased sedati</li> </ul>	ion warranting cautious dosing
<ul> <li>questions remai</li> </ul>	n regarding cognitive effects
pilot study with a	relatively small sample size
signal and feasibil	lity support future studies

#### Meta-Analysis of Cannabinoids for Agitation Experimental Control Std. Mean Difference Mean SD Total Mean SD Total Weight IV, Random, 95% C Study or Subgroup 1.1.1 Thic Window Elsen et al [30] -1.2 5.6 24 -1.8 6.1 26 8.0 × 0.010 (J.45, 0.66 Van den Elsen et al [31] -1.2 5.6 24 -1.8 6.1 26 8.0 × 0.010 (J.45, 0.66 Van den Elsen et al [31] -1.4 5.6 27 20 -5.02 4.65 20 17.7% 0.14 (J.46, 0.07 Van den Elsen et al [31] -2.04 pin see data -3.43 4.61 20 4.07, % 0.10 (J.65, 0.07 Stationard (J95-01) -0.04 pin see data -3.43 4.61 20 4.07, % 0.10 (J.65, 0.07 Stationard (J95-01) -0.04 pin see data -3.44 5.02 4.07, % 0.10 (J.65, 0.07 subboolal (95% CI) Heterogeneity: Tau\*= 0.00; Chi#= 0.01; df= 2 (P = 1.00); #= 0 Testfor overall effect: Z = 0.85 (P = 0.52) 11.08 15.13 36 -2.46 13.72 35 18.4% -32.5 7.5 15 3 6.5 15 11.7% -4 2.78 6 -2 4.54 10 15.0% 0.5 0.5 2 -1 1 2 1.5% 59 62 46.6% -0.84 [-1.12, -0.17] -4.92 [-6.44, -3.41] -0.47 [-1.50, 0.56] 1.08 [-5.36, 7.52] Valther et al (32 $\label{eq:2.1} \begin{array}{l} 123\\ \gamma, Tou^{2}=0.08; \ Chi^{2}=40.53; \ df=6.0^{9}\times0.00101); \ l^{9}=66.%\\ 0.066tt \ Z=1.56; \ l^{9}=0.10)\\ roup differences: \ Chi^{9}=3.05; \ df=1.0^{9}=0.06); \ l^{9}=67.3\%\\ \end{array}$ -0.69 [-1.50, 0.13]

- no effect as a group on agitation (standard mean difference: -0.69, P = .10)
   significant heterogeneity (\car{x}\_6 = 43.53, P < .00001, 1<sup>2</sup> = 86%)
   trend for greater difference in agitation with synthetic over THC (\car{x}\_1 = 3.05, P = .08)
   larger effect on agitation with greater cognitive impairment (8 = 0.27, t<sub>8</sub> = 2.93, P = .03)

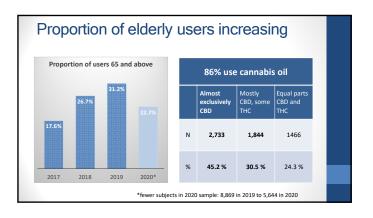
#### Survey of elderly cannabis users

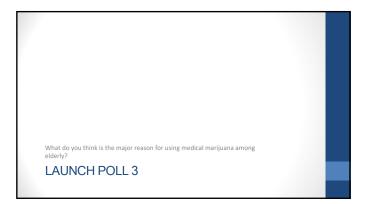
Subject characteristics at in	take visit
Sample size	9,766
% Female	60%
Age (mean (SD))	73.2 y (6.8)
Prior cannabis use (n=7,230)	15.5%
Disorder system – Pain	67.7%
Oncological	10.1%
Psychiatric	7.9%
Neurological	7.0%
Others	7.3%

<ul> <li>Data from commercial medical cannabis provider</li> </ul>	
based in Canada Oct 2014 to Oct 2020	

- 9766 older users (23.1% of sample)
- Most (67.7%) referred for chronic pain. Neurological and psychiatric disorders in 14.9% 44.5% OTC analgesics
- 21.4% on antidepressants
- 12.3% benzodiazepines







#### Cannabidiol (CBD)

#### CNS effects

- neuroprotective [reviewed in Watt & Karl, 2017]
- anxiolytic [reviewed in Margallo-Lana et al., 2001]
- analgesic [reviewed in Boychuk, Goddard, Mauro, & Orellana, 2015]
- anticonvulsive, sedative, antipsychotic, antiinflammatory and neuroprotective properties [Scuderi et al 2009]

#### Safety

- CBD is metabolized by cytochrome P450 enzymes 3A4 and 2C19 [Alsherbiny 2018]
- in vitro and in vivo data suggest that CBD can inhibit CYP1A2, CYP2C19 and CYP3A4, which may result in drug-drug interactions [Alsherbiny 2018, Qian 2019]
- clinical relevance yet to be established

#### Summary

- increasing interest in the use of cannabinoids as a therapeutic intervention in dementia, particularly for agitation
- pharmacologic rationale exists for use of cannabinoids
- limited studies assessing the efficacy of THC and related compounds for agitation
- recent trial of a nabilone for agitation shows promise
   efficacy, but concerns around sedation
- ongoing trials



## The WALLET Study: A Study of Memory Change and Money Management

The IOG study — WALLET (Wealth Accumulations & Later-life Losses in Early cognitive Transitions) — is recruiting men and women age 60 and older who manage their own household finances, but feel like their memory is slipping. All screenings done remotely. To learn more,

CLICK HERE Questions? Contact Vanessa at 313-664-2604 or

vrorai@wayne.edu

## Participants will be compensated

All financial records will be de-identified and information kept **confidential** 

Interviews will take place

ove<u>r the telephone</u>



Peter Lichtenberg, PhD Principle Investigator and Director of the Institute of Gerontology Wayne State University

🤝 🚾 Institute of Gerontology

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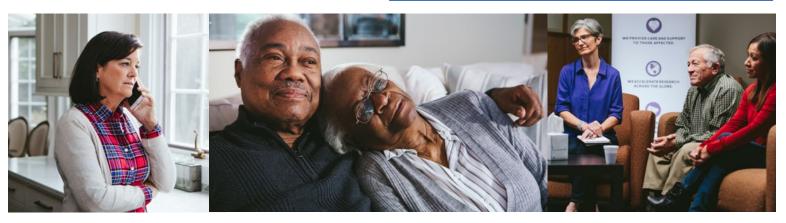
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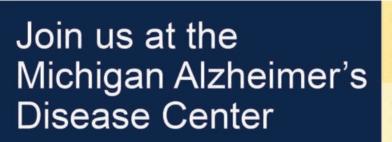
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The Center collaborates with other research institutions across the state including Wayne State University and Michigan State University, as well as local outreach organizations including the Alzheimer's Association to enhance groundbreaking research efforts and community education. The Center is also one of 31 other National Institutes of Health-funded Alzheimer's Disease Research Centers across the country.

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Please call Kate Hanson at 734-936-8332 or visit alzheimers.med.umich.edu/research for a list of currently enrolling studies.

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#### Interested in learning more about our wellness programs?

Please call Ashley Miller at 734-615-8293 or visit alzheimers.med.umich.edu/wellness.

#### Interested in learning about our Lewy body dementia programs?

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## **Caregiving in Diverse Populations**



Sheria G. Robinson-Lane, PhD, RN Assistant Professor Department of Systems, Populations and Leadership Room 4305 University of Michigan School of Nursing 400 North Ingalls Building Ann Arbor, MI 48109-5482

Telephone: (734) 764-9280 Fax: (734) 647-2416 grices@med.umich.edu

#### Interests:

- Gerontology
- Health disparities
- · Informal caregiving for dementia
- Adaptation and coping
- Mixed-methods

Dr. Sheria Robinson-Lane is a gerontologist with expertise in palliative care, long-term care, and nursing administration. She has focused her career on the care and support of older adults with cognitive and/or functional disabilities. Dr. Robinson-Lane is interested in the ways that older adults adapt to changes in health, and particularly how adaptive coping strategies effect health outcomes. Her research is focused on reducing health disparities for minority older adults with cognitive impairments and their informal caregivers. Prior to coming to coming to the University of Michigan School of Nursing, Dr. Robinson-Lane completed an NIH-funded advanced research rehabilitation training program in community living and participation with the University of Michigan Medical School.

# Caregiving in Diverse Populations

Sheria Robinson-Lane, PhD, RN, MHA Assistant Professor Department of Systems, Populations, and Leadership University of Michigan School of Nursing



## Funding

- Michigan Center for Urban African American Aging Research (P30AG015281)
- UMSN Center for Complexity and Self-Management of Chronic Disease (P20NR015331)
- Michigan Alzheimer's Disease Research Center/ Claude D. Pepper Older American Independence Center (P30AG053760/ P30AG024824)
- National Institute on Aging (K01AG06542001A1)

## Objectives

- Discuss national trends in caregiving
- Identify dementia specific concerns related to caregiving
- Describe clinical implications and research directions

## Describing Diverse Populations: Race and Ethnicity





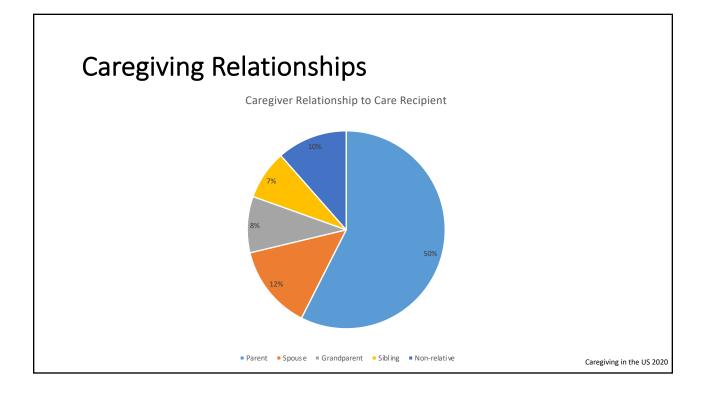
*…if you look back in slavery days…all* we had was each other to keep each other going. From young to old, we took care of everyone. I think that's what we had to do. We were there for the sick. We were there for the babies. We were there for the White people's babies...I think it's just the caring nature that's just in us, that just passed from generation to The Meanings African American Caregivers Ascribe to Dementia-Related Changes: The Paradox of " generation. Hanging on to Loss 🝩 Allison Lindauer, PhD, APRN 🗠, Theresa A. Harvath, PhD, RN, FAAN, Patricia H. Berry, PhD, RN, ACHPN, FPCN, FAAN, Peggy Wros, PhD, RN

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# 16 Million Caregivers

## Age and Caregiving

	Caregiver Age			
	18-49 (n=552)	50-64 (n=546)	65-74 (n=217)	75+ (n=237)
Recipient age 50-74	56%	23%	38%	21%
Recipient age 75+	25%	65%	53%	74%
			Car	egiving in the US 2020





Instrumental Activities of Daily Living	Activities of Daily Living
Telephone Use	Getting in and out of bed and
Shopping	chairs
Transportation	<ul> <li>Getting dressed</li> </ul>
Paying Bills	<ul> <li>Using the toilet</li> </ul>
Preparing Meals	<ul> <li>Bathing or showering</li> </ul>
Laundry	• Feeding
Housework	<ul> <li>Dealing with incontinence</li> </ul>

Dementia family caregiving is associated with the most negative health outcomes

## Health Disparities

Preventable differences in disease burden, injury, violence, or opportunities to achieve optimal health:

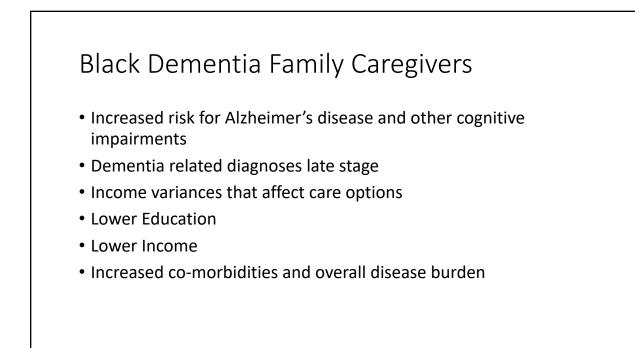
- Disease risk
- Diagnosis
- Disease progression
- Treatment response
- Caregiving

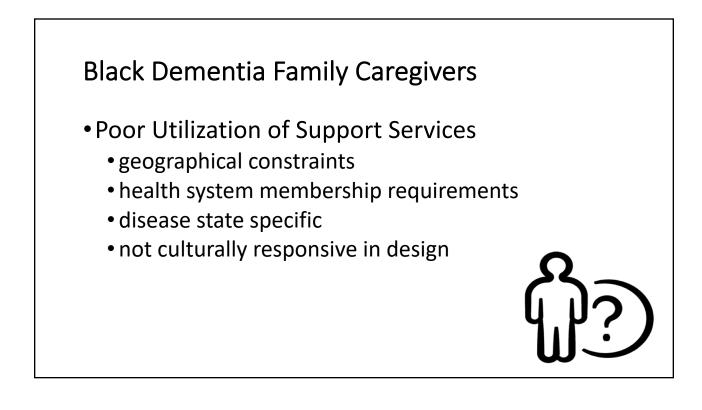
- Access to care
- Quality of life
- Education
- Socioeconomic status
- Lifetime and lifestyle differences

## **Black Dementia Family Caregivers**

- High intensity care
- Long care trajectories
- Increased likelihood of:
  - poor health
  - lower income
  - future dementia diagnosis
  - premature death

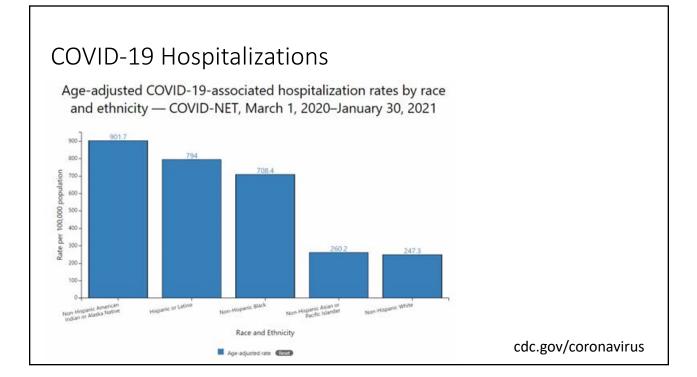


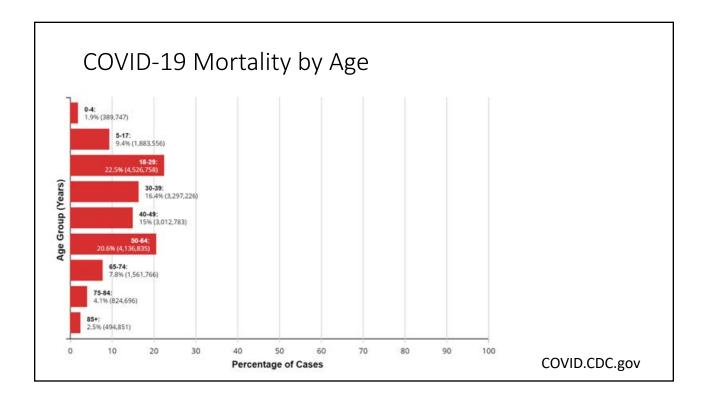


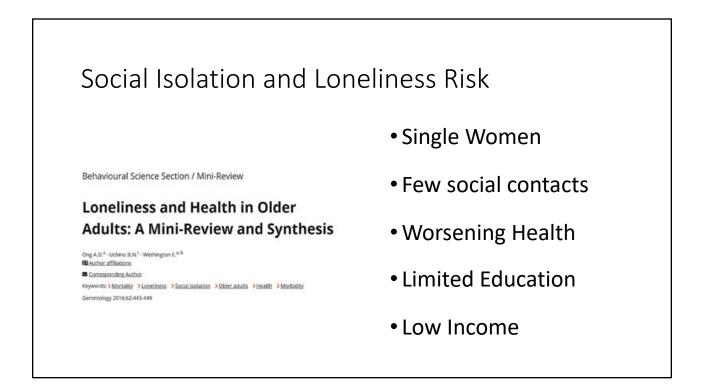


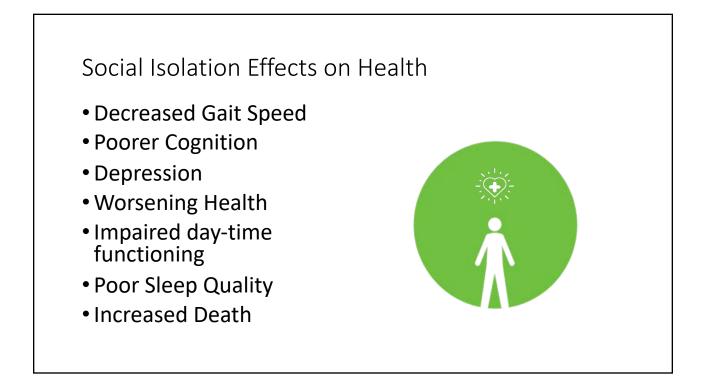
## Dementia Family Caregiving Concerns

- Hypertension
- Obesity
- Diabetes
- Depression
- Worsening overall health

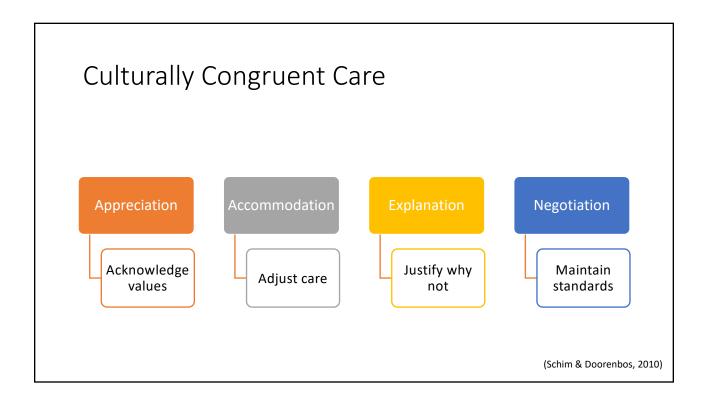


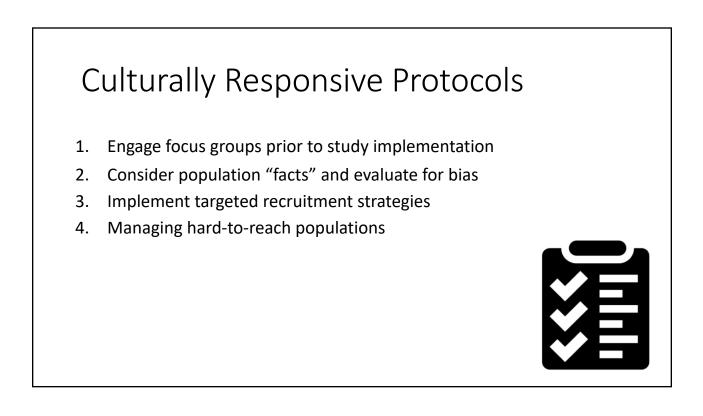


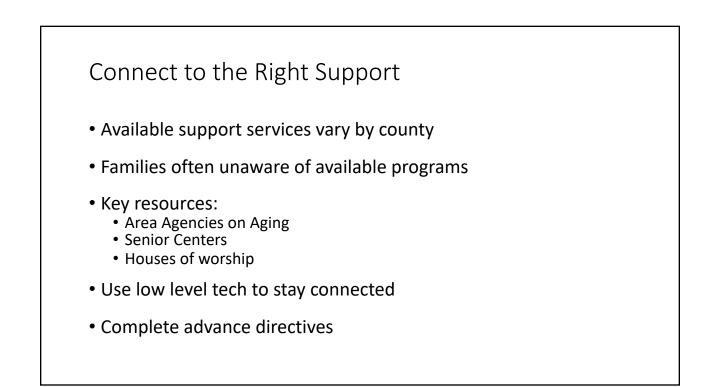












Recognize Assist Include Support and Engage (RAISE) Family Caregivers Act of 2018 Family Caregiver Advisory Council



- Promote person/family centered care
- Engage person/family in assessments and service planning
- Improve dementia education
- Expand respite options
- Reduce financial insecurity

National Alliance for Caregiving 2021

## **Next Steps**

- Investigate relationships between health and adaptive coping strategies
- Leverage technology as a tool to provide education, connect caregivers with one another, and identify resources
- Develop community informed interventions



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Successful Aging thru Financial Empowerment (SAFE) and its research is supported by grants from: National Institute of Justice, Foundation for Financial Health, Michigan Aging and Adult Services PREVNT program, Michigan Health Endowment Fund, State of Michigan, Wayne State University Technology Commercialization, American House Foundation and the Mary Thompson Foundation.



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## Aging in Place: Key to Good Life



Susan Stark, PhD, OTR/L, FAOTA Associate Professor of Occupational Therapy, Neurology and Social Work Washington University, St. Lious

Phone: (314) 273-4114 Fax: (314) 286-1601 sstark@wustl.edu

#### **Clinical Interests:**

Home modification interventions to support aging in place, implementation of evidence-based interventions

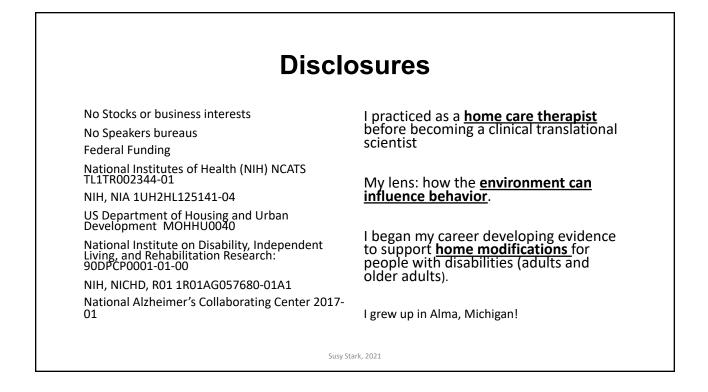
#### **Research Interests:**

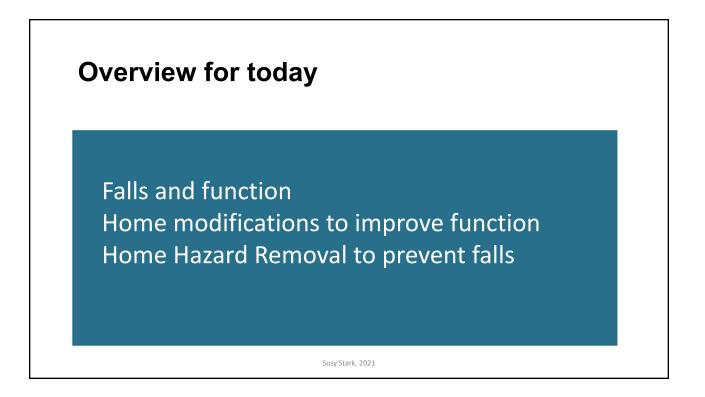
Community dwelling older adults with chronic health conditions face functional decline that impacts their ability to live independently. They are more likely to require assistance performing their daily activities and are at a substantially greater risk of falling. Compensating for impairments with environmental support and self-management strategies can lessen the impact of functional decline, reduce the risk of falling and reduce the demand on health systems and care-givers. Dr. Stark's clinical translational research seeks to develop and test the efficacy and effectiveness of compensatory interventions aimed at improving an older adults ability to age at home safely, elucidate their mechanism of action and implement programs to improve health outcomes.

#### Wayne State Institute of Gerontology Issues in Aging

MONDAY • APRIL 19, 2021

Aging in Place: Key to Good Life Susy Stark, PhD





## "aging in place"

The vast majority of older adults want to age in place, so they can continue to live in their own homes or communities.

#### Where do older adults live?

4% live in institutions (nursing homes)

2.4% live in situations with supportive services



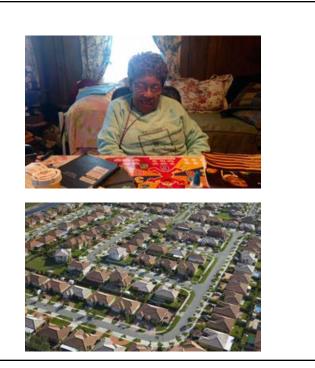


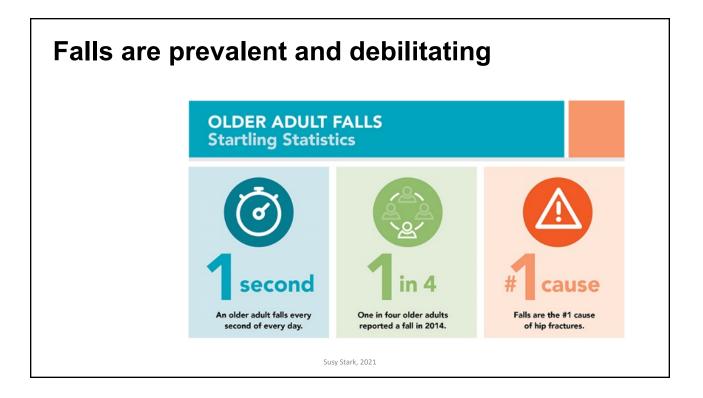
#### Most live "at home"

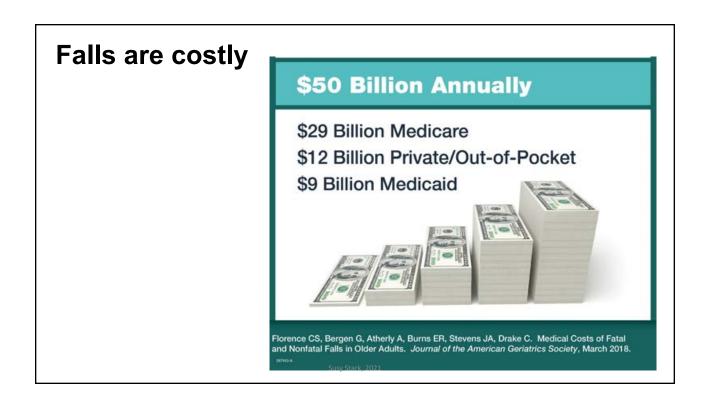
90% of older adults live in single-family homes and apartments; 80% own them

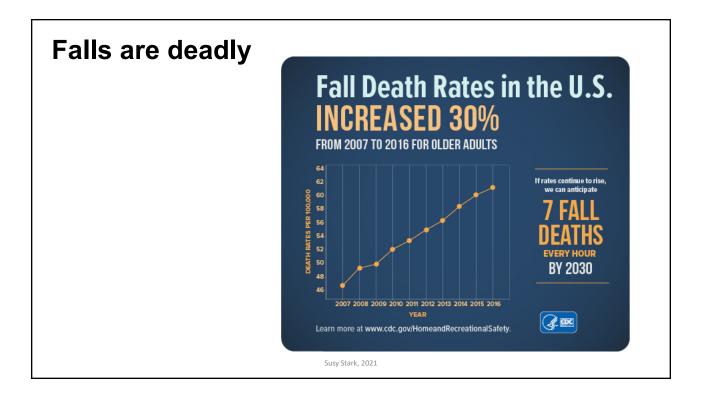
50% of older adults have lived in current home for 25+ years

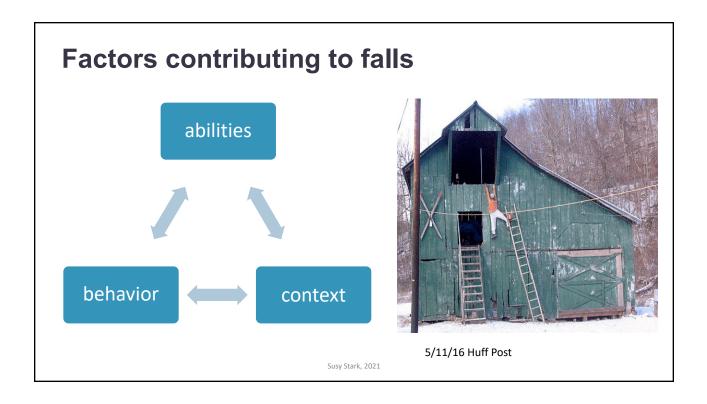
One third live alone



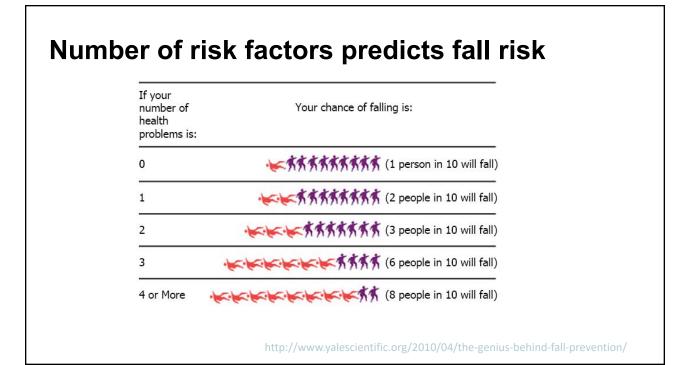


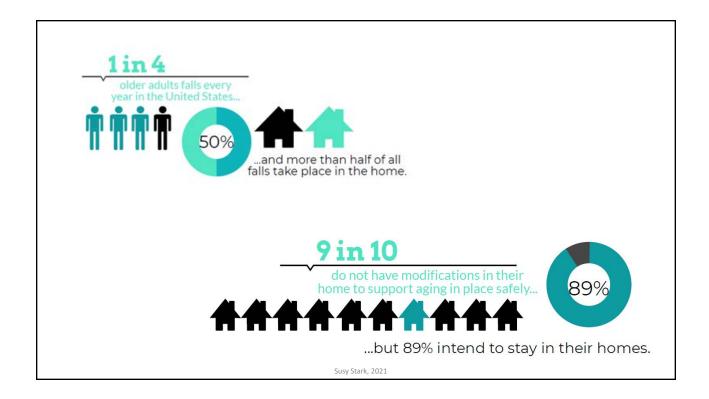






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# Barriers in the home







Lack of railings, low contrast

narrow doorways, thresholds, mats/rugs, objects reducing space







#### Home modifications







Pink cane for increased contrast and improved adherence

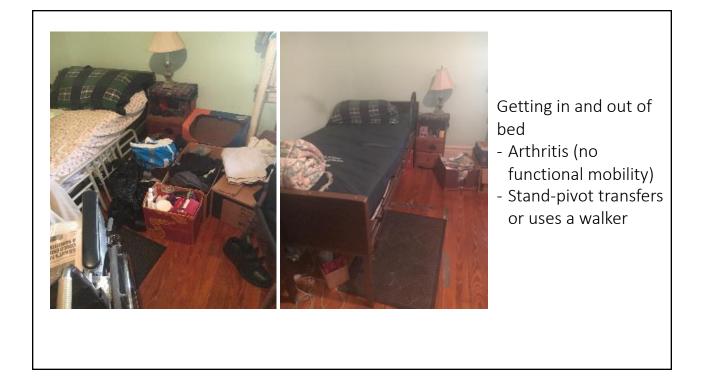






Bidet for independent toileting







Going up and down the stairs

- Cataracts
- R side Hemiparesis



# People report having modifications, but they could be risky



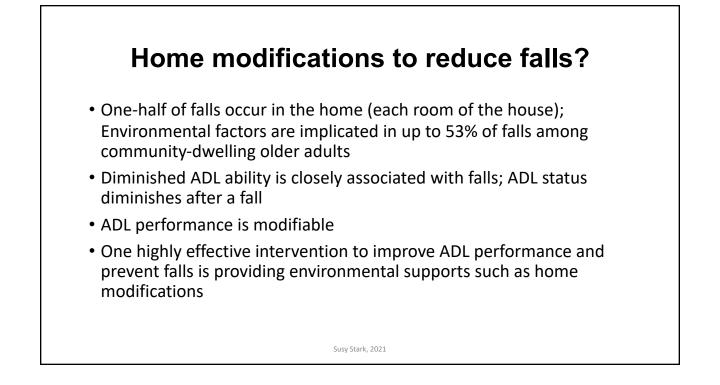


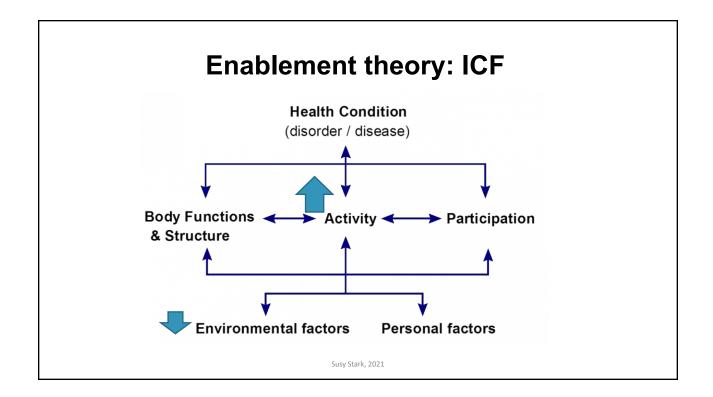


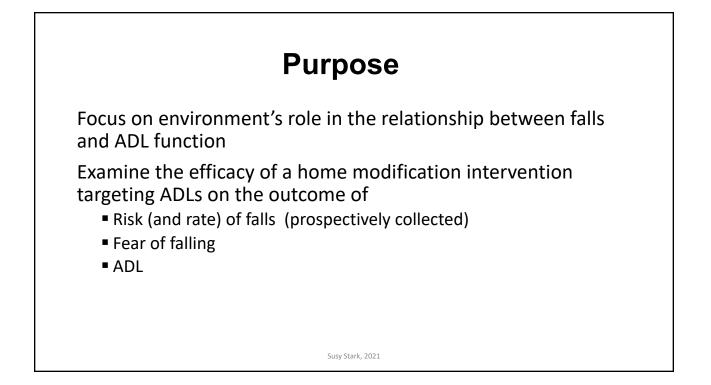


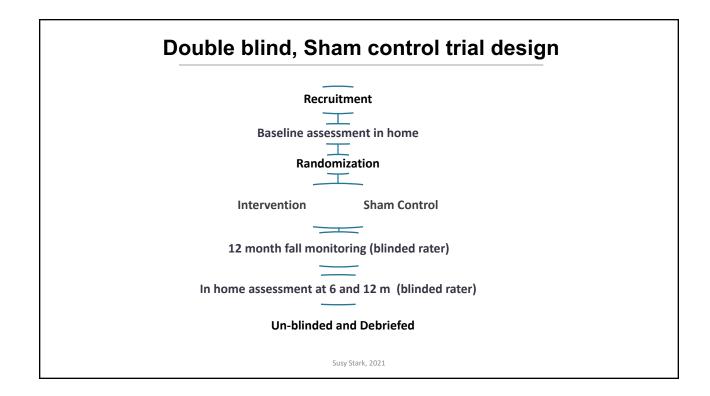
#### What works? Effectiveness of Home Modification Interventions on the ✓ assessment of an individual's Participation of Community-Dwelling Adults and Older abilities, the home environment and Adults: A Systematic Review performance goals Susan Stark, Marian Keglovits, Marian Arbesman, Deborah Lieberman Environmental interventions for preventing falls in older people ✓ intervention plan to remediate living in the community barriers 1858.00011258.07 (c) 3 View article inform 😆 Lindy Clemson | Susan Stark | Alison C Pighills | David J Torgerson | Catherine Sherrington | Sarah E Lamb ✓ implementation or supporting the implementation of the plan Environmental Interventions to Prevent Falls in Community-Dwelling ✓ training the client or caregiver to Older People A Meta-Analysis of Randomized Trials complete their daily activities using in, PhD , PhD the environmental support PhD Susy Stark, 2021

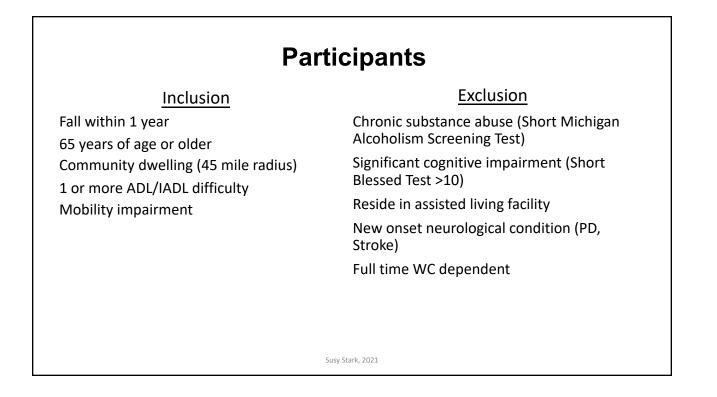


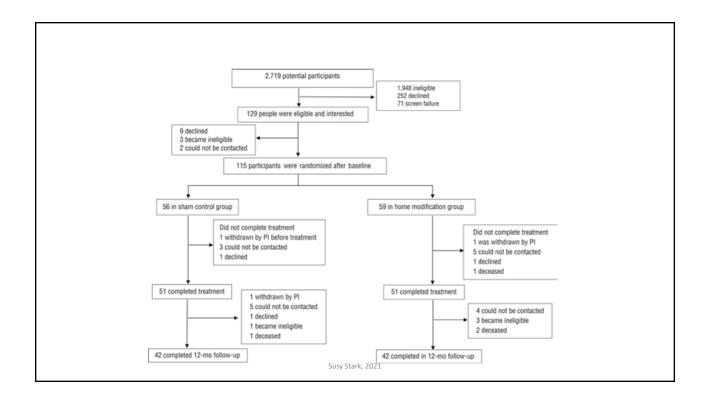








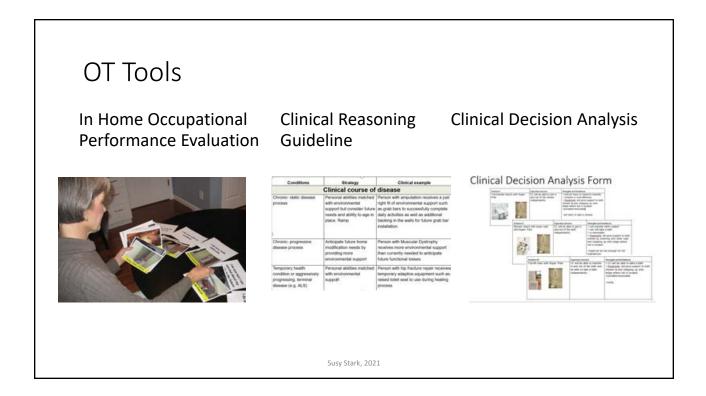




Participants (n=115)	Control	THM
Age, mean ± SD	78.0 ± 7.5	78.4 ± 7.4
Female, n (%)	35 (76)	35 (76)
White race, n (%)	34 (74)	32 (70)
Married, n (%)	11 (24)	17 (37)
Years education, mean ± SD	13.0 ± 2.3	14.3 ± 3.4
Live alone, n (%)	18 (39)	20 (44)
Total number of previous falls, mean± SD	3.0 ± 3.0	$3.6 \pm 3.5$
Use assistive mobility device, n (%)	38 (83)	39 (85)
Cognition, mean ± SD	3.4 ± 3.5	2.6 ± 3.2
Number of daily medications, mean ± SD	8.7 ± 3.3	9.1 ± 3.0



Home Modification Intervention				
Intervention	Target	Essential Ingredients Active Ingredients	Mechanism of Action	
Home modifications	Daily activity performance	Home Modification and Training <i>Tailoring</i> <i>Client-centered</i>	Reducing press improves outcome behavior	
	visit grid; standard	-		
5-8 problem activi	ties	Susy Stark, 2021		



# Clinical Reasoning Guideline: Factors expert OT's consider during the home modification clinical reasoning process

#### Intrinsic (6)

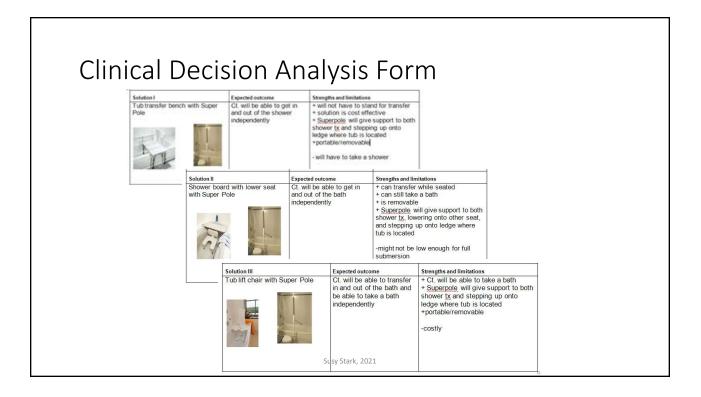
- Clinical Course of disease
- Personal Assistance Preferences
- Ability to Maintain Modifications
- Compliance
- Literacy Level
- Readiness for Change

#### Extrinsic (9)

- Financial Resources
- Social Support
- Physical Assistance Available
- Lives with Others
- Condition of Home
- Available Space
- Rules and Regulations
- Weather conditions
- Portability of Intervention

Susy Stark, 2021

Conditions	Strategy	Clinical example		
Clinical course of disease				
Chronic- static disease	Personal abilities matched	Person with amputation receives a just		
process	with environmental	right fit of environmental support such		
	support but consider future	as grab bars to successfully complete		
	needs and ability to age in	daily activities as well as additional		
	place. Ramp	backing in the walls for future grab bar		
		installation.		
Chronic- progressive	Anticipate future home	Person with Muscular Dystrophy		
disease process	modification needs by	receives more environmental support		
	providing more	than currently needed to anticipate		
	environmental support	future functional losses.		
Temporary health	Personal abilities matched	Person with hip fracture repair receives		
condition or aggressively	with environmental	temporary adaptive equipment such as		
progressing, terminal	support	raised toilet seat to use during healing		
disease (e.g. ALS)		process		









#### Intervention

• 90% delivered;

84.39 minutes/ session x6

- 13 weeks
- No major protocol deviations
- 931\$/6.7 activities
- 91% still used at 12 months



 Before: toilet too low, unable t o rise nom toilet; dependent for toileting hygine



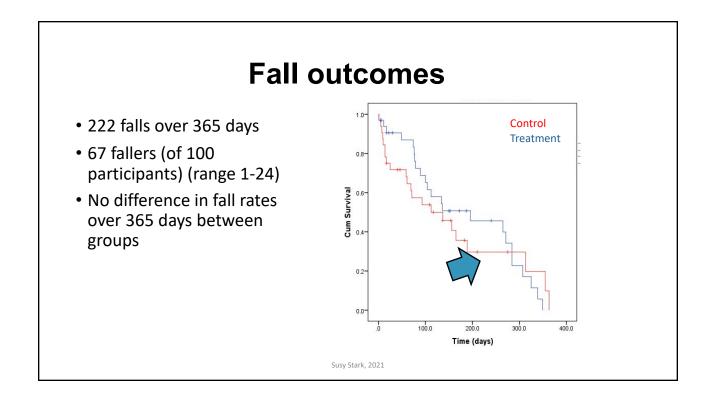
 A. Before: no handrails to enter ...ving area



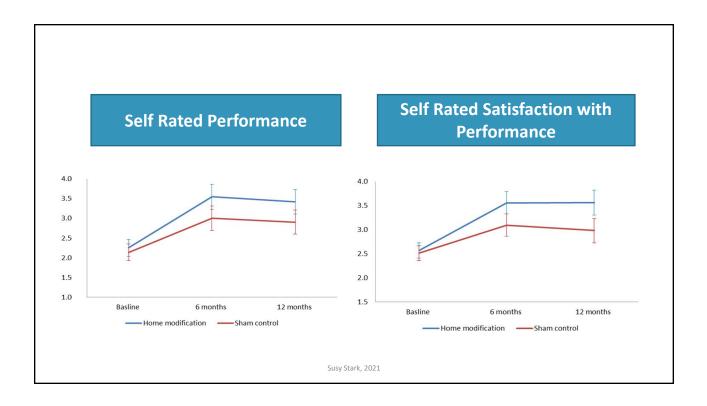
 After: bidet and toilet riser; fold down grab bar; independent and safe toileting



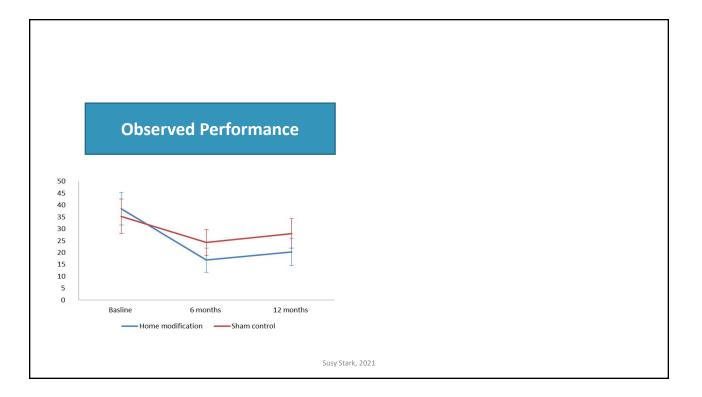
B. After: new handrails; independent in entering living area



		All falls				Indoor Falls		
		Prob	HR	CI		Prob	HR	CI
365 days	p=.001				p=.012			
Member of control		0.49	1.21	0.71-2.05		0.25	1.46	0.76-2.81
Age		0.08	1.04	0.99-1.07		0.01	1.06	1.02-1.12
Barriers		0.19	0.99	0.98-1.00		0.43	0.99	0.98-1.01
Marital Status		0.19	0.89	0.74-1.07		0.07	0.81	0.65-1.01
Previous falls		0.00	1.17	1.09-1.27		0.01	1.16	1.05-1.28
260 Days	p=.001				p=.003			
Member of control		0.12	1.59	0.88-2.85		0.04	2.20	1.05-4.63
Group * time		0.04	0.25	0.07-0.94		0.03	0.18	0.04-0.83
Age		0.07	1.04	0.99-1.08		0.01	1.07	1.02-1.12
Barriers		0.16	0.99	0.98-1.00		0.37	0.99	0.98-1.01
Marital Status		0.20	0.89	0.74-1.07		0.07	0.81	0.65-1.02
Previous falls		0.00	1.18	1.09-1.28		0.001	1.18	1.07-1.30



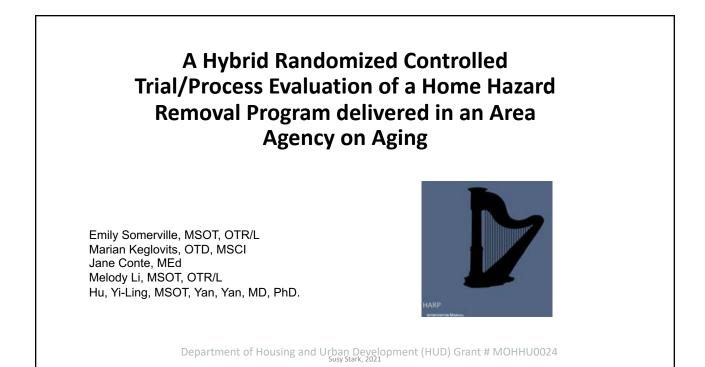
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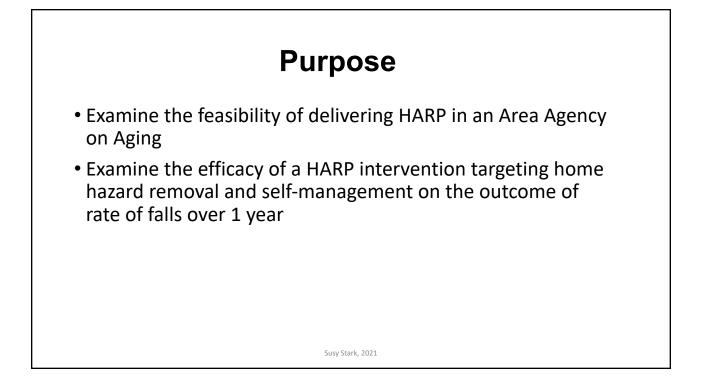


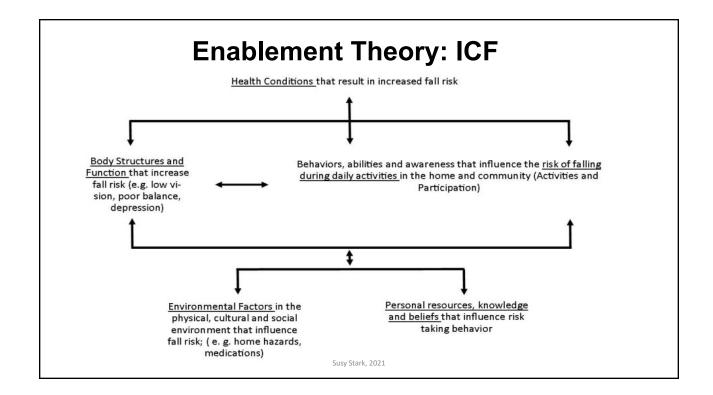
aily Activity Performance Scores of Study Grou	ips		
Assessment	Sham Control, M (SD)	Home Modification, M (SD)	Interaction Effect
Self-rated performance <sup>a</sup> ( $n = 81$ )			
Baseline	2.5 (0.6)	2.6 (0.4)	
6 mo	3.1 (0.8)	3.6 (0.7)	<i>F</i> = 5.57; <i>p</i> = .005
12 mo	3.0 (0.9)	3.6 (0.7)	
Self-rated satisfaction with performance <sup>a</sup> ( $n = 81$ )	1)		
Baseline	2.1 (0.7)	2.3 (0.7)	
6 mo	3.0 (1.1)	3.5 (0.9)	<i>F</i> = 3.15; <i>p</i> = .046
12 mo	2.9 (1.1)	3.4 (0.9)	
Objective activity performance score <sup>b</sup> ( <i>n</i> = 68)			
Baseline	35.3 (3.6)	38.4 (3.4)	
6 mo	24.2 (2.7)	16.8 (2.6)	<i>F</i> = 4.13 <sup>c</sup> ; <i>p</i> = .024
12 mo	28.0 (3.1)	20.3 (2.9)	

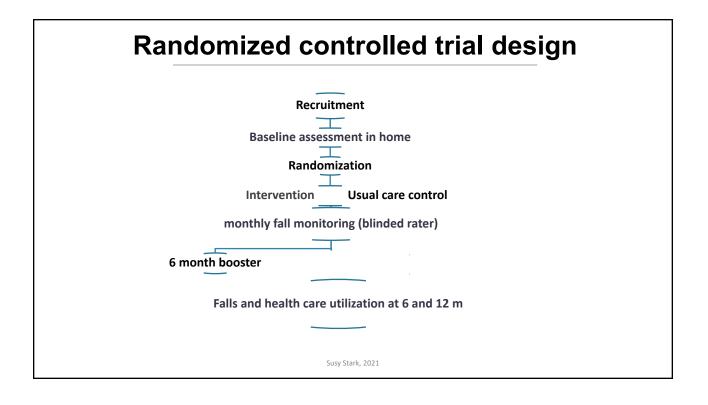
## Conclusions

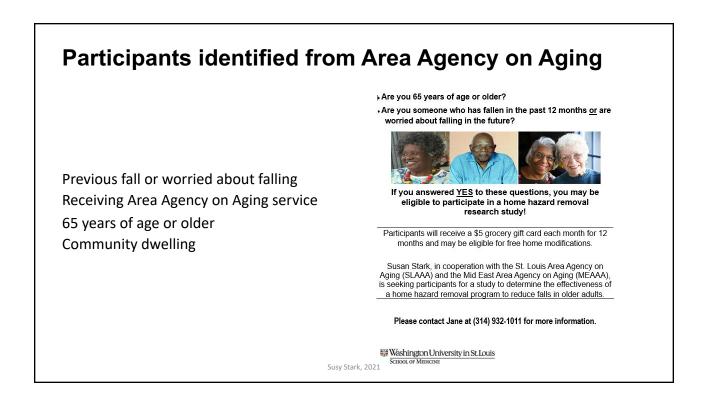
- Home modifications to reduce ADL is not effective in reducing falls
- The tailored home-modification program is feasible.
- Reduces the risk of falls at 6 months
- Positive effect on daily activity performance that was maintained at 12 months.
- May require booster session and fall-hazard awareness training during intervention



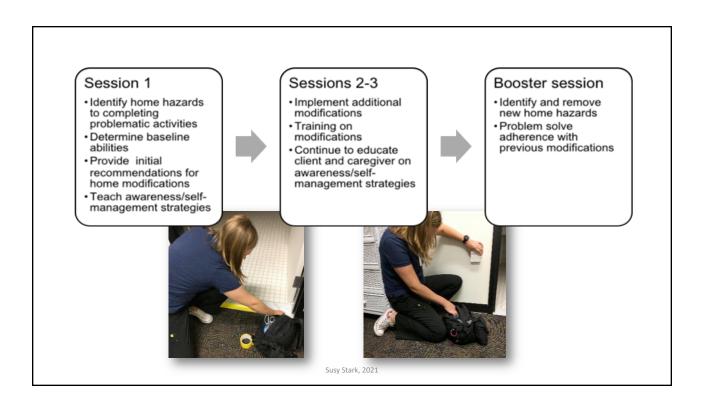


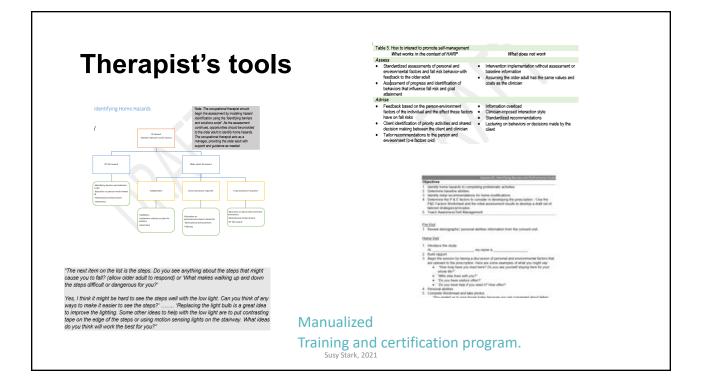




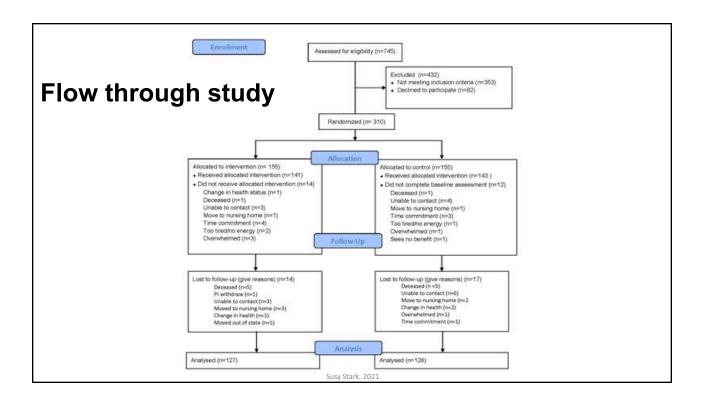


#### Home Hazard Removal Program (HARP) **Essential Ingredients** Mechanism of Action Intervention Target Active Ingredients Home Hazard Removal Behavior; & Self Management **Reducing press** Home Hazard Removal improves outcome Removing home Program Tailoring behavior hazards Client-centered Manualized; visit x visit grid; standardized testing (1-2) 60 minute sessions with trained OT interventionist 1 booster sessions (60 minutes) at 3 months





Characterist	ics of sample	
Participants	Control (n=155)	HARP (n=155)
Age, mean	74.7	75.1
Female, n (%)	118 (79)	111 (79)
African American race, n (%)	83 (55)	78 (56)
Widowed, n (%)	53 (36)	60 (44)
Years education, mean ± SD	13. 5	13.6
Live with someone, n (%)	115 (78)	111 (79)
Total number of previous falls, mean± SD	1.8	1.5





#### Case study: Ms. F

69 year old African American woman Undergoing breast cancer treatment Lives in town home alone Good family support

High fall risk Incontinence Muscle weakness Fatigue



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Most frequent modifications

Type of mod	#
grab bar	95
secured rug	44
bath seating	40
raised toilet seat	33
kitchen seating	32
Reacher	24
non-skid treads	21
bed rail	21
toilet safety rail	18
night lights	17
railing	16
cushion	16
rollator/walker	14
step stool	13
contrasting tape	12



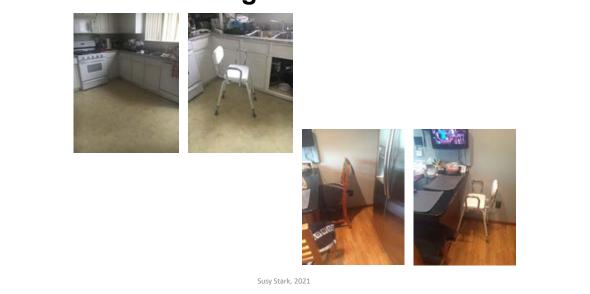


## #3: Bath/shower seating



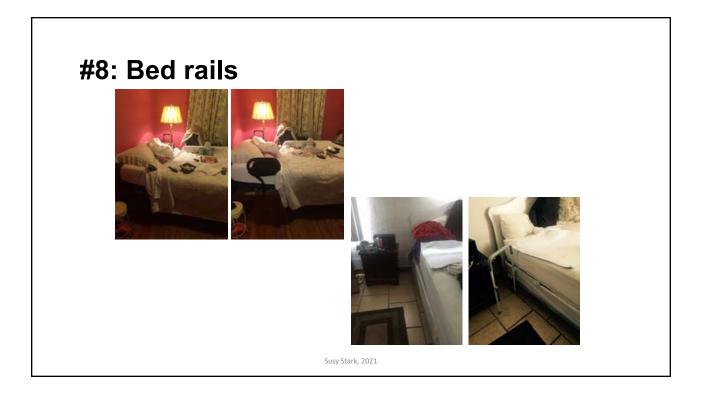


# **#5: Kitchen seating**







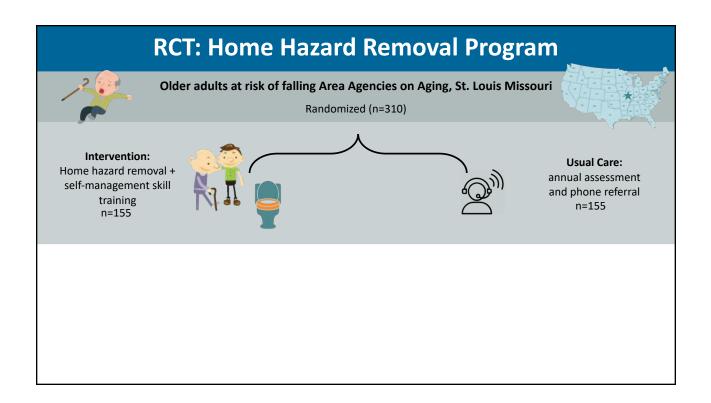


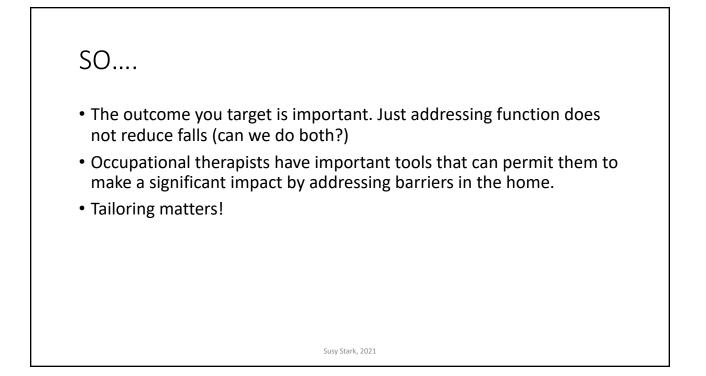
# **#9: Toilet safety rails**





Falls in ty	vo groups	at 6 and	l 12 months
Falls	Control	HARP	Relative Risk (95% CI)
Total Sample	n= 136	n=131	
Falls at 6 m	1.1	0.7	.62 (.39–.98)
Falls at 12 m	2.3 (6.6)	1.5 (3.5)	.62 (.4095)
Fall injury rates calculate comparing the rate of fal adjusted for fall risk			rate ratio calculated for ths unadjusted, 12 months







#### Seeking Volunteers for Memory Research

Wayne State University is conducting a study to better understand potential biomarkers that may predict cognitive loss and even the earliest signs of Alzheimer's disease. We are seeking African American participants both male and female, ages 65 and over. Eligible volunteers will undergo:

- Clinical Neurological Assessments
- Memory Testing
- Electro-Encephalogram Testing (EEG) (Recordings of tiny electrical signals from the top of the head.)

Contact the ELectra Study at (313) 577-1692 or send an email to voyko@wayne.ed



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- Dorothy and Peter D. Brown Memory Care Pavilion
- Lillian & Samuel Hechtman Apartments
- Norma Jean & Edward Meer Apartments
- Dorothy and Peter Brown Jewish Community Adult Day Program, West Bloomfield & Southfield

People of all faiths and beliefs are welcome



tour, contact me,

For more information or a

**Tracey Proghovnick** 248-661-1836 TTY# 711 tproghovnick@jslmi.org

or visit jslmi.org

A. Alfred Taubman Jewish Community Campus OAK PARK

- Margot & Warren Coville Assisted Living and Memory Care Community
- Anna & Meyer Prentis Apartments
- Harriett & Ben Teitel Apartments







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A 17-question survey that can be completed by older adults or administered to them. Results will indicate the older adult's degree of vulnerability to financial exploitation and appropriate next steps to educate and protect them.

The Financial Vulnerability Survey is recommended for attorneys, medical staff, financial screeners, senior housing managers and other professionals working with older adults and wanting to assess their risk of being financially exploited.

To learn about the Financial Vulnerability Survey and other assessments **Visit: OlderAdultNestEgg.com.** 

Watch a brief overview and get started today!

Peter Lichtenberg, PhD, ABPP Director, Institute of Gerontology, WSU and OlderAdultNestEgg.com creator



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## The Caring of People with Dementia as a Calling



**Michael Verde, MA** Founder of MemoryBridge.org Bloomington, Indiana

michael@memorybridge.org

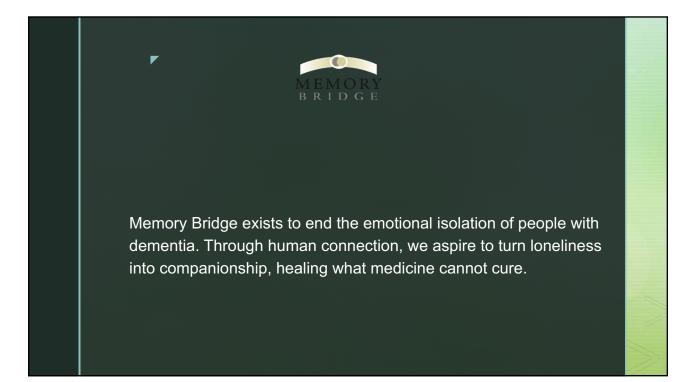
Michael Verde founded Memory Bridge in 2003. To date, Memory Bridge has connected over 8,000 people with and without dementia to each other in one-toone relationships. What people with dementia most need from us—is us. Memory Bridge exists to end the emotional isolation of people with dementia. We bridge people with and without dementia to each other in life-changing ways. Our educational programs are hosted on three continents

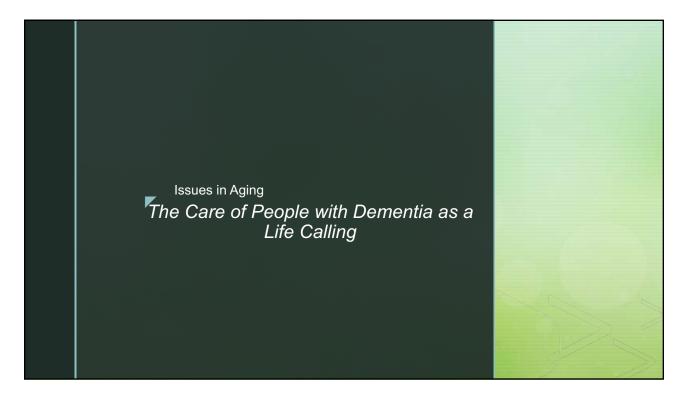
Michael speaks across the world on the subjects of literature, world religions, and communicating with people with dementia. His clients include Northern Trust Bank; Chevron; St. Christopher's Hospice, England; Alzheimer's Association of Australia; the Federal Reserve Bank of Chicago, and the Vero Beach Museum.

Michael graduated with honors from the University of Texas's prestigious Plan II Honors program. He earned a M.A. in literary studies from the University of Iowa, and a M.A. in theology from the University of Durham, England, where he graduated at the top of his international class.

Michael taught English for 10 years. At Lamar University where he began his teaching career he was named Teacher of the Year in his third year of teaching.

In 2011, Memory Bridge was awarded Indiana University's Educational Peace Prize to bring the Memory Bridge school initiative to South Africa. He is currently pursuing a PhD in the area of empathetic education at Indiana University.





## Person-Centered Care

- The most commonly recognized gold standard of care of persons with dementia in English-speaking countries
- What does it mean?

Dawn Brooker, Professor of Dementia Studies and Director of the University of Worcester Association for Dementia Studies, UK:

- "Many of us live with the knowledge that although the words [person-centered care] sound good, the lived experience of care for people with dementia—particularly for those living in long-term care—is anything but good."
- "In our discussions with practitioners, researchers and people with dementia and their families, it is obvious that the concepts in person-centered care are not easy to understand or articulate in a straightforward manner."

#### Commonplace Descriptions of Person-Centered Care from a National Institute of Health Journal

Carers described person-centered care as:

'individualized care', 'seeing the person and not the medical condition' and 'tailoring care around the person'.

The term was often presented as a short-hand descriptor of 'good practice' or 'quality care' that staff aspired to deliver.

## Commonplace Descriptions of Person-Centered Care from a National Institute of Health Journal

Those interviewed offered these examples:

- addressing patients by their preferred name,
- being flexible about such care routines as washing and serving breakfast,
- providing a choice of meals, respecting privacy, personalizing bed space (family photographs)
- involving patients in decision-making on treatment and care.

# Examples of person-centered care given in a recent prominent article explicating person-centered care

- Early
- 1. Tom has always been a very independent man. Although he was diagnosed with Alzheimer's disease, he wants to remain as independent as possible. He goes through his day as he always did, although now his wife Joan is always there for support if needed. Joan sometimes has to assist with a task, help with finding the right word, or give a friendly reminder. She also continues to include Tom in decisions, including treatments, future care and finances.

Examples of person-centered care given in a recent prominent article explicating person-centered care

Late

Emily was an avid gardener. Her yard was perfectly kept with many varieties of plants, which she grew from seed. She loved fragrant bushes, especially lavender. One side of her yard was filled with beautiful bushes. Throughout the progression, she stayed involved in gardening. In the later stage of Alzheimer's disease, care providers looked through seed catalogues with her, and talked about different varieties. They kept fragrant cut flowers and plants in her room, especially lavender when available. They kept a small satchel of dried lavender under her pillow, and also used a nice lavender lotion to moisturize her hands and feet.



- The primary aim of person-centered care is <u>the maintenance and promotion</u> of personhood.
- "Personhood is a standing or status that is bestowed upon one human being, by others, in the context of relationship and social being."
- Person-Centered dementia care is "a true process of meeting between persons."

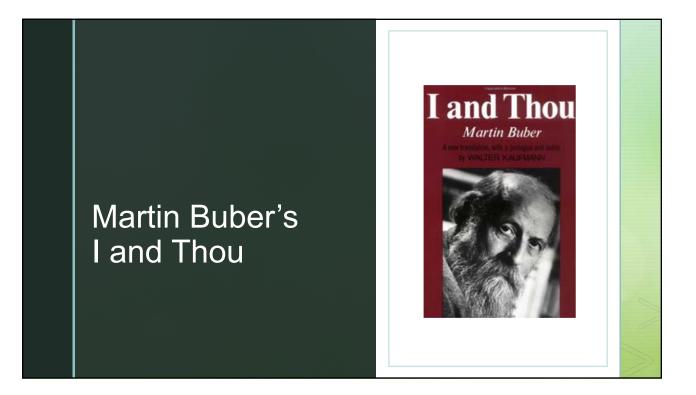
#### A Quick Comment by Kitwood

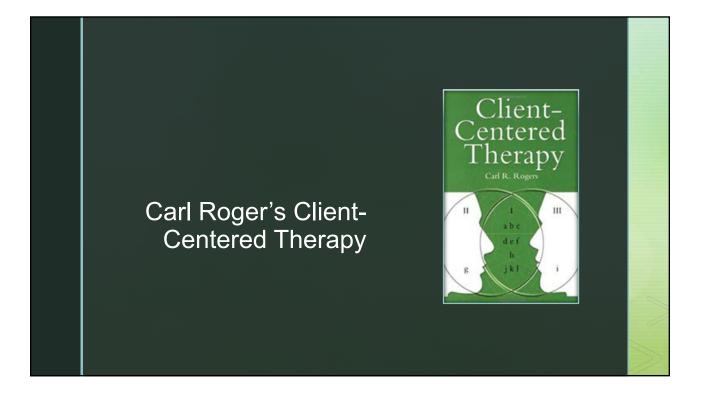
 There is a very sobering fact to take into account, in relation to those who have dementia:

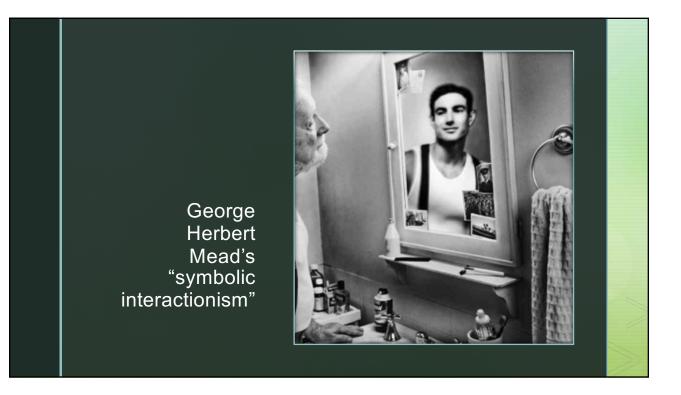
It is that the most thorough assessment can be carried out, the most efficient 'care planning' undertaken, the most comprehensive care provided—totally in the I-It mode, without any of the meeting of which Buber speaks ever having taken place.



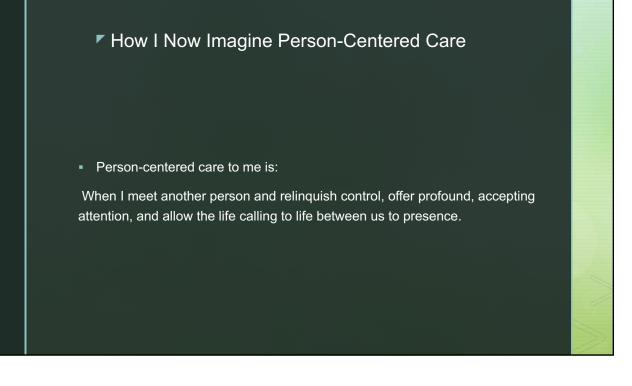
- Martin Buber's I and Thou
- Carl Roger's client-centered therapy
- George Herbert Mead's symbolic interactionism
- Spiritual traditions, especially Christianity and Buddhism

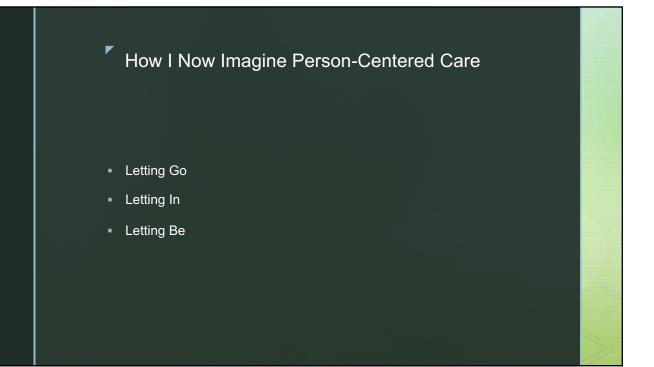


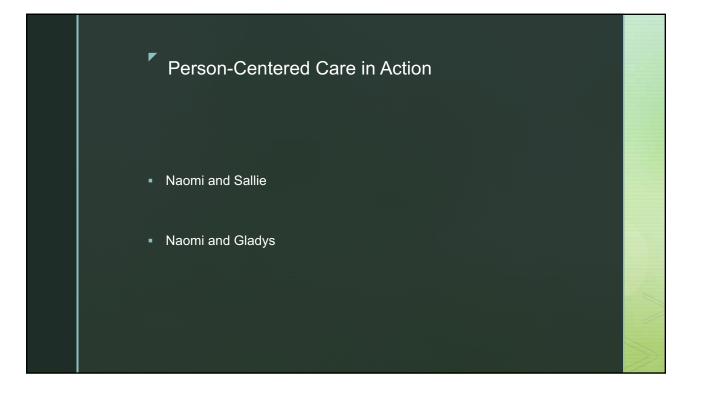




Spiritual Traditions The ego seeks to divide and separate. Spirit seeks to unify and heal. Pema Chödrön













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