

NAPA 2024

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University of California San Francisco
Global Brain Health Institute



Nothing to disclose

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#### Talk Outline

- What is the Care Ecosystem
- Results from our randomized clinical trial
- How we are supporting implementing sites

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#### The Team that Designed the Care Ecosystem in 2013



Jennifer Merrilees Nurse, caregivers



Bruce Miller Neurologist



Kirby Lee Pharmacy



Caroline Prioleau Content Developer



Sarah Hooper Elder Law



Winston Chiong Neuroethicist



Strategist



Michael Schaffer Technology



Steve Bonasera Geriatrician, rural



Rosalie Gearhart Nurse Visionary



Sarah Dulaney Nurse Leader



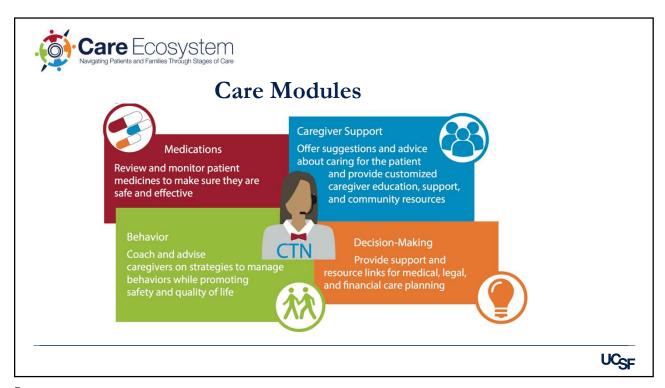
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#### Care Ecosystem Model

The Care Team Navigator (CTN) is the primary point of contact











#### Caregiver Needs by Dementia Stage

Based on qualitative analysis triangulating data from clinical notes and interviews with clinical team members and caregivers.

Alissa Sideman, PhD

**Mild:** processing and accepting the diagnosis, navigating changes in the relationship with the PLWD, advance care planning, learning about resources available

**Moderate:** managing challenging behaviors, addressing safety concerns, managing new symptoms (incontinence, disinhibition, hygiene, sleep disruptions), identifying community resources, decision-making about care transitions

**Advanced:** assessing and treating pain, need for caregiver respite and in-home support, managing grief and questions about prognosis, connecting with hospice

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## UCSF's Care Ecosystem Model + 3 additional requirements = Medicare's GUIDE payment model

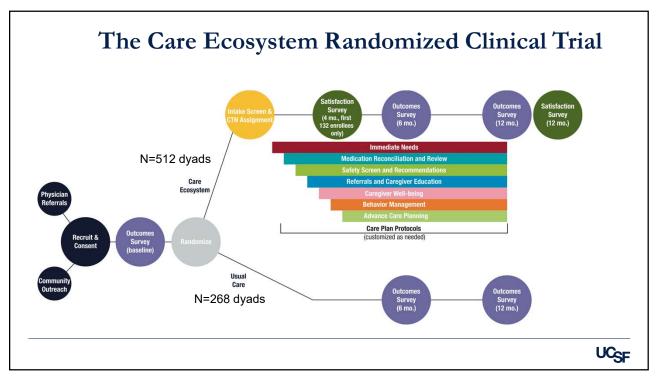
# Care Ecosystem Model Community Health Care Providers Patient/Caregiver Care Team Navigator Dementia expertise in nursing, social work and pharmacy Care Ecosystem Clinical Team

#### <u>GUIDE additional requirements</u> (not included in Care Eco research)

- + 24/7 access
- +home visit for patients in moderate to advanced stages
- +CMS will pay for caregiver respite services, \$2,500 per year.

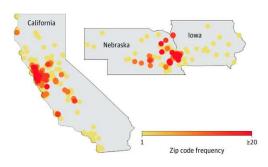


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### Randomized Clinical Trial: N=780 PLWD-caregiver dyads



- ✓ Improved caregiver well-being
- √ Improved patient quality of life
- √ Reduced emergency room visits
- ✓ Reduced polypharmacy and potentially inappropriate medication use
- ✓ Reduced total cost of care based on Medicare claims

Possin et al., JAMA IM, 2019; Liu et al., 2022, Alz & Dementia; Guterman et al., 2023, JAMA IM



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#### Effects of the Care Ecosystem on Medication Use



Kirby Lee



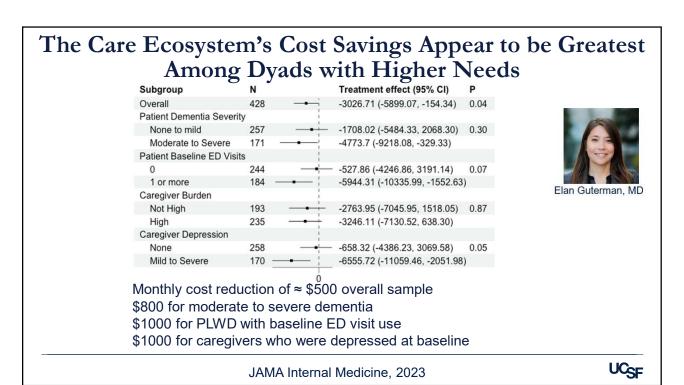
Amy Liu

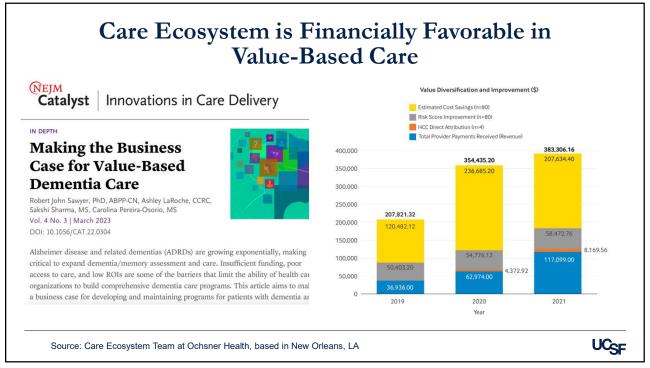
	Mean (SD	)				
	Care Ecosystem N = 304		Usual Care N = 186		Difference between	
	Baseline	Follow- up	Baseline	Follow- up	means (95% CI) <sup>b</sup>	P
Primary Medication Out	come					
Number of PIMs <sup>c</sup>	1.49	1.43	1.42	1.72	-0.35	<.0001
	(1.59)	(1.51)	(1.48)	(1.69)	(-0.49 to -0.20)	
Secondary Medication C	Outcomes					
Number of medications	10.43	10.68	10.28	11.03	-0.53	.008
	(5.23)	(5.38)	(5.01)	(5.42)	(-0.92 to -0.14)	
PIMs for dementia or	0.44	0.45	0.39	0.56	-0.14	.002
cognitive impairment <sup>c</sup>	(0.76)	(0.78)	(0.74)	(1.04)	(-0.23 to -0.05)	
CNS-active PIMs <sup>c</sup>	1.40	1.41	1.33	1.63	-0.28	<.0001
	(1.42)	(1.36)	(1.28)	(1.61)	(-0.42 to -0.14)	
ACB Scale score <sup>d</sup>	1.62	1.64	1.40	1.69	-0.20	.035
	(1.98)	(1.99)	(1.56)	(1.97)	(-0.39 to -0.01)	
Antipsychotics	0.15	0.17	0.15	0.21	-0.03	.126
	(0.37)	(0.40)	(0.40)	(0.47)	(-0.08 to 0.00)	
Benzodiazepines	0.13	0.12	0.11	0.16	-0.05	.008
	(0.33)	(0.34)	(0.34)	(0.43)	(-0.09 to -0.01)	
Opioids	0.20	0.18	0.16	0.23	-0.09	.002
	(0.50)	(0.49)	(0.44)	(0.52)	(-0.14 to -0.03)	

Number Needed to Treat to reduce 1 potentially inappropriate medication = 3

Liu et al., Alzheimer's & Dementia, 2022







#### Costs of the Care Ecosystem Program

- Costs vary by caseload and are highest during start-up when caseloads are low.

Talita Rosa, MS, MD

- At a caseload of 79 patients, costs were \$86 in Omaha and \$105 in San Francisco per-patientmonth.
- In contrast, the savings to Medicare was about \$500 per-patient-month.
- These costs do not include the home visits, respite support, and 24/7 access that are required for GUIDE.

Rosa et al., Journal of the American Geriatrics Society, 2019

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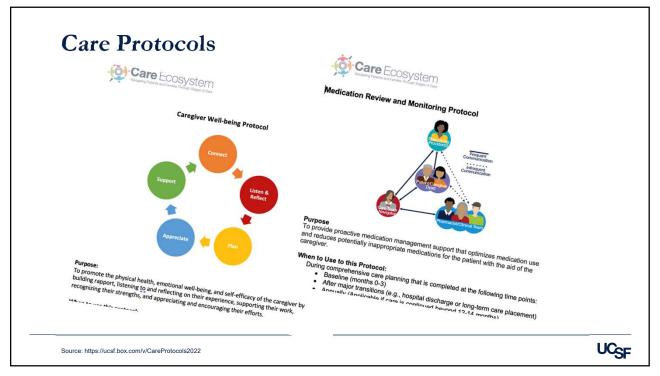
# Find the Care Ecosystem Toolkit, care protocols, and CTN training program at: memory ucsf edu/care-ecosystem

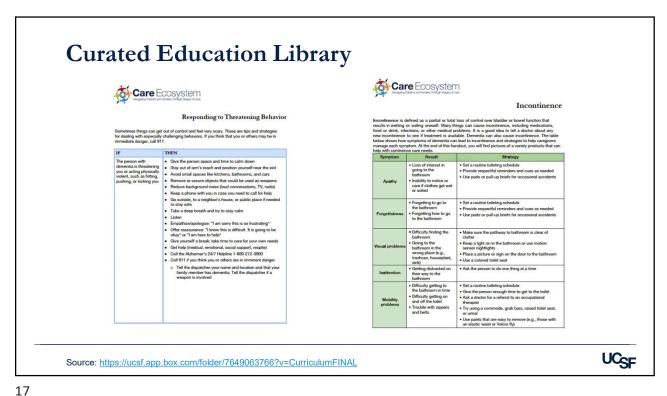
## memory.ucsf.edu/care-ecosystem















## How can you get support from the Care Ecosystem as you implement collaborative dementia care?



1. Review the Toolkit, Care Protocols, Online Navigator Training memory.ucsf.edu/care-ecosystem



2. Contact Michelle Barclay, Program Manager, to set up a consultation with one of our program leaders Michelle.Barclay@ucsf.edu



3. Join our Care Ecosystem Consortium for ongoing collaborative learning.



Thank you to the families who have participated in Care Ecosystem research

#### Thank you to our funders:

Centers for Medicare and Medicaid Innovation National Institute on Aging Administration for Community Living Global Brain Health Institute Alzheimer's Association Merck Foundation John Douglas French Foundation

Thank you to the amazing health care innovators who are implementing effective dementia care navigation models into diverse health systems and community-based organizations! Together, we can improve dementia care.

