Dementia Ideal Care Map:

Ecosystem View of Best Practices and Care Pathways Enhanced by Technology and Community

Wen Dombrowski, MD, MBA

care@catalaize.com Linkedin.com/in/WenDombrowski

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Wen Dombrowski, MD, MBA Perspectives

- Dementia Care Worker
- Geriatrics Physician
- Executive in Health Systems (CMIO / CIO)
 - Care Model Designer
 - Clinical Informaticist
 - Process Engineer
- Tech / Innovation Consultant to Payers, Providers, Government, Investors, Startups, Medical Device, Pharma, Retail, Community Orgs

Linkedin.com/in/WenDombrowski - care@catalaize.com

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Background & Aims

- Nonprofits, industry, and academics globally have identified best practices to support PLWD
- However, best practices tend to:
 - Only focus on 1 phase of patient journey
 - Only focus on 1 relevant group
 - Reside in disparate repositories

- The Dementia Ideal Care Map aims to bridge this gap by including:
 - Ecosystem view of ideal care
 - Best practices beyond physicians' medical decisions
 - Technologies that enhance care
 - Proposed new care pathways, processes, services, and quality measures
- Actionable tool for policymakers, researchers, technology developers, health system leaders, clinicians, social services workers, patient advocates, PLWD, families, and communities
- Ultimately to improve quality of life (QoL)

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Methods

"Ideal Care" in this project means:
What would be optimal dementia care in the near future,
if not limited by current constraints & feasibility?
What would be the ideal PLWD experience
from before diagnosis through ongoing care?

- 1. Searched for best practices
- 2. Excerpted & synthesized from >100 global sources
- 3. Visually summarized in diagram (adapted from Capabilities Architecture)
- 4. Visually analyzed draft diagram to identify gaps/barriers
- 5. **Brainstormed** other processes, services, & quality measures to overcome gaps
- 6. **Added technologies** that enhance care (most already available)
- 7. Sought feedback
- 8. Revised diagram based on feedback

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Results

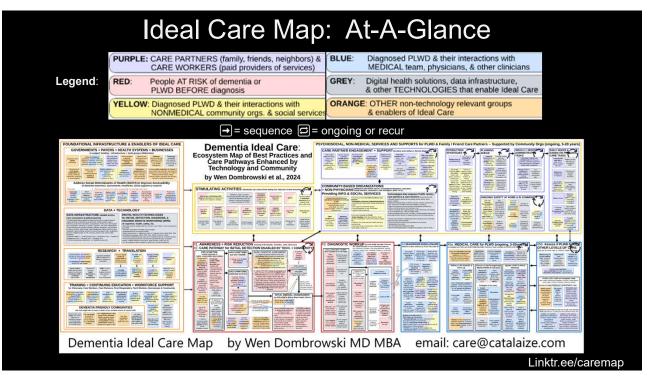
The **Dementia Ideal Care Map** summarizes

in 1 comprehensive diagram:

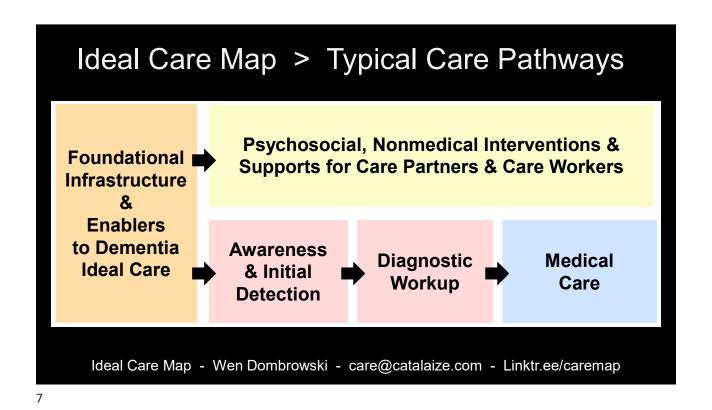
- Dementia ecosystem of relevant groups
- >200 best practices
- ~100 technology enablers
- Other infrastructure
- Enhanced care pathways

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Ideal Care Map: Overview of Sections Dementia ldeal Care: Ecosyste wap of Best Practices and Jare Pathways Enhanced by Technology and Community Governments + Payers + Care Partner Week Health Systems + Plan Engagement + Support Inter Ιv **Businesses** by Wen Dombrowski ning Tasks act for Funding + Infrastructure Daily **Community-Based Orgs** ion + Policy + Collab. + SDoH Tasks Stimulating Activities Strate + Non-Physicians During Risk Reduction & gies Providing Info & Safety After Pementia Diagnosis) Social Services Data + Technology Research + Translation Awareness + Diag Other **Lifelong Risk Reduction** Diagnostic Medical nosis Levels Training + Cont. Edu + Workup Disclo Care Of Care Workforce Support **Initial Detection** sure + Dementia Friendly Communities by Wen Dombrowski MD MBA email: care@catalaize.com Dementia Ideal Care Map Ideal Care Map - Wen Dombrowski - care@catalaize.com - Linktr.ee/caremap

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Tech Infrastructure

DATA INFRASTRUCTURE needed across care ecosystem & patient journey

- Global/national data strategy and data infrastructure to support decision making and service delivery by governments, health systems, payers, clinicians, social service providers, care partners, PLWD, et al.; and support care coordination, self-service, research, registries, and other collaborations
- Data Infrastructure includes hardware, software, processes, and workforce for data acquisition, data storage, data management, data processing, data integration, data exchange, privacy and security; analytics tools, visualization, business intelligence(BI), AI / ML; services, policies, and common data standards
- Integrate Health IT + Social Services Tech + Government Tech + Emergency Management Tech + Education Tech + Marketing Tech
- Prioritize data privacy, data ethics, UX, reliability, access, etc.

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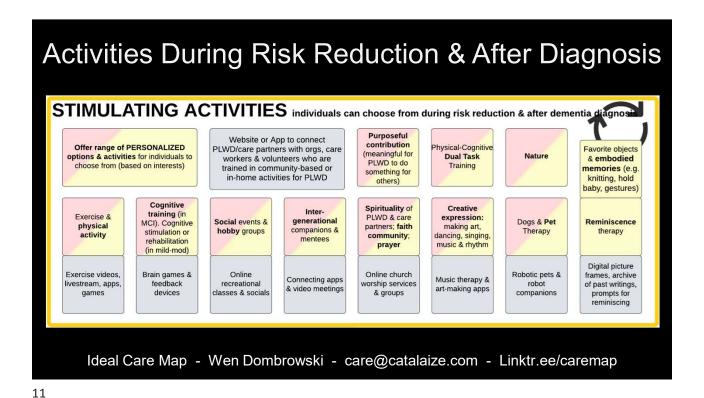
Tech Solutions

DIGITAL HEALTH TECHNOLOGIES for INITIAL DETECTION, DIAGNOSIS, & ONGOING REMOTE MONITORING (RPM)

of cognition, health, safety, etc.

- Electronic decision support tools for clinicians, care workers, family care partners and PLWD
- Workflow automation and digital case managers
- · Standardized tools to evaluate PLWDs
- Digital assessments +/- digital biomarkers of: Cognition, Brain Health Risk, IADL, Voice/Speech/Language, Sleep, EEG, Eyes, Smell, Movement, Mood;
- · Active/intermittent/interactive inputs with smartphone apps & connected devices
- Passive/continuous/automatic tracking with smartphone usage, wearable sensors, ambient devices (smart home, smart furniture, smart car), etc.
- AI / ML analysis of data for patterns, predictions, & recommendations

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Best Practices for Care Partners & Care Workers INTERACTION STRATEGIE DAILY NEEDS & AHEAD ADMINISTRATIVE HANDS-ON PERSONAL CARE TASKS Financia anning ref obots to help with ADLs & caregiving tasks Pill dispens machines & digital reminders End of Life Planning early: ask preferences re: medical care, funeral, will, house, etc. Assess PLWD's risk tolerance vs safety seeking during lifetime & now. [Respect independence Online tools & checklists that walk PLWD & family through planning discussions Give PLWD choice and gency to make Build daily routines, habits & cues Electronic schedules & reminders ONGOING SAFETY AT HOME & IN COMMUNITY PLWD can particpate &/or help others Ride share apps w/ GPS location tracking Conside ACTIVITIES Ideal Care Map - Wen Dombrowski - care@catalaize.com - Linktr.ee/caremap

Potential Process Measures for Ideal Care of People Living With Dementia (PLWD)

Medical Care

- Administer basic cognitive assessment annually to all people over age 65 (or earlier age for individuals in high-risk groups).
- Assess older adults in hospitals using guidelines from Geriatric-Friendly Emergency Department (Geri-ED) and Acute Care of Elders (ACE)
- Perform diagnostic workup (would need to specify which essential components must occur, such as neurologic exam, which blood tests, imaging test)
- Disclose diagnosis to PLWD
- Document dementia diagnosis in medical record/EHR
- Assess family's needs, abilities, and willingness to take on care partner role(s)
- Document care partner(s) and surrogate decision maker
- Provide info about support organizations to PWLD and/or care partner
- Refer to home-based and/or community services
- · Assess cognitive status serially
- Assess functional status serially
- Assess pain serially
- Reconcile medications serially
- Discuss and update care plan serially

Quality Measures

PROM

Examples of Dementia-Specific
Patient Reported Outcome Measures (PROM)
of Quality of Life (QoL)

- Alzheimer's Disease-Related Quality of Life (ADROL)
- Bath Assessment of Subjective Quality of Life in Dementia (BASQID)
- Dementia Quality of Life Measure (DEMQoL)
- Dementia Quality of Life (D-QoL)
- Family Quality of Life in Dementia (FQOL-D)
- Quality of Life in Alzheimer's Disease (QoL-AD)
- Quality of Life in Late-Stage Dementia (QUALID)
- QUALIDEM

Social Services

- Document PLWD's personal life goals, care goals, routines, likes and dislikes
- Complete dementia care training (% clinicians and care workers)
- Provide nutritious meals (e.g., if government is paying for someone to take care of PLWD)

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Observations from Visual Analysis

- Informative to see best practices in 1 compact view
 - Ecosystem View including all relevant groups reveals interdependencies & bottlenecks
 - Person-Centered, Life Course View shows psychosocial best practices can begin before a diagnosis (e.g. stimulating activities & interactions with patient advocacy associations)
- · Journey is Non-linear: each step may be recurring, continuous, or fluctuating intensity
- Post-diagnosis survival can increase to 5~20 years
 - As more public health innovations + more PLWD diagnosed earlier + new clinical treatments
 - Important to communicate wide range of survival & anticipatory guidance
- Much workload for risk reduction, detection, & after-diagnosis care can be shared by multidisciplinary & virtual care teams (not expecting PCP/GP or specialists to "do it all")
- Technologies can augment human efforts
 - e.g. Al/ML, decision support, personalized recommendation engines, remote monitoring, etc.
 - · Ideally the tech should bridge all stages of life & disease, and all relevant groups
 - Therefore, many grey boxes ideally as horizontal bars across entire diagram / journey

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Potential Applications & Collaborations

- · Welcome feedback & collaborators to iterate & build upon Linktr.ee/caremap
- · Create online interactive version to crowdsource feedback, link to more info, filter views
- · Customize & adapt the Ideal Care Map to specific relevant subgroups, geographic regions, dementia subtypes, other conditions (neuro, diabetes, rare disease, long COVID, aging)
- For policymakers, health systems, community organizations, businesses,
 - technology developers, educators, media, & other leaders:

 Use as high-level roadmap of what needs to be done for capacity building, service planning, interagency & intersectoral collaboration
 - Tool for gap analysis, heatmapping, capability maturity planning
- · For clinicians, care workers, & researchers:
 - Familiarize with the breadth of interventions beyond own roles & the transdisciplinary coordination needed for Ideal Care
 - Inform development of research agendas, clinical protocols, decision support tools, quality measures, digital measures, & patient reported outcomes
- For PLWD, care partners, & lay people:
 - Learn what to consider at different phases
 - Co-design with PLWD & care partners to adapt into personalized journey tool for laypeople

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Thank you! Questions?

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