# RISK REDUCTION GOAL UPDATES

LISA C. MCGUIRE, PHD



## Risk Reduction Goal

## **Objective**

To develop a national goal to reduce the burden of risk factors in order to prevent or delay onset of Alzheimer's Disease and related dementias (ADRD)

#### Rationale

- Advances in science of risk factors: Science continues to evolve in the prevention, identification, treatment, and management of Alzheimer's disease and related dementias (ADRD). The most current scientific information will be utilized to drive the development of this goal.
- Preclinical stages of the disease: The preclinical states of ADRD are ripe for
  primary prevention. Intervening during this portion of the life course will not
  only reduce or delay the onset on ADRD but also will help to maintain the health,
  well-being, and independence of older adults by improving the health of the
  nation.
- Heterogeneity of pathologies that cause dementias: Dementia symptomology is
  caused by multiple pathologies and combinations of pathologies. The intervention
  of risk factors known to prevent or delay onset of ADRD, regardless of pathology,
  is the key.

# Steering Committee



Matthew Baumgart
Vice President of Health
Policy at
Alzheimer's Association



Lead, Alzheimer's Disease Program

Lisa C. McGuire, Ph.D.

National Center for Chronic Disease Prevention and Health Promotion Division of Population Health



Kelly O'Brien

Executive Director of the Brain Health Ecosystem project at UsAgainstAlzheimer's

## Timeline March Framing Meeting Identify & Invite Workgroup Members April Workgroup Meetings May Workgroup Meetings • Update to NAPA Advisory Council June • Outputs Meeting (SUBC present findings & suggestions) Solicit External Reviews July • External Reviews • Present recommendations to NAPA Advisory Council August • Submit final recommendations to HHS

# Subcommittee & Workgroup Members



Jewel Mullen Dell Medical School



Joshua Chodosh New York University Langone Health

# Group A: Joshua Chodosh and Jewell Mullen

Obesity, Diet, Sleep, Traumatic Brain Injury

Jeannette Beasley

Jennifer Martin

Temitayo Oyegbile-Chidi

Kristine Yaffe

Alice Lichtenstein

# Subcommittee & Workgroup Members

# Group B: Laurie Whitsel and Caraline Coats Physical Activity, Tobacco Use, Alcohol Ross Arena Aruni Bhatnagar Cedric Bryant Jordan Endicott Hadiya Green Gerraro James Galloway Mark Stoutenberg Monica Rivera-Mindt Amy Bantham Melinda Kelley Monica Cornelius Alison Moore John Omura Kathy Watson







Caraline Coats Humana

# Subcommittee & Workgroup Members

#### Group C: Marilyn Albert and Joe Chung

Social Isolation, Depression, Hearing Loss and Cognitive Activity

Carla Perissinotto

Ipsit Vahia

Meryl Butters

Frank Lin

Michael Marsiske



Joe Chung Kinto Care, Redstar Ventures



Marilyn Albert Johns Hopkins Medicine

# Subcommittee & Workgroup Members

#### Group D: Rebecca Gottesman and Karthik Sivashanker Hypertension, Hyperlipidimia, Diabetes

Hugo Aparicio Heather Hodge
Walter Kernan David Hoffman
Ann Marie Navar Laura Baker

Denard Cummings Judy Hannan



Karthik Sivashanker American Medical Association

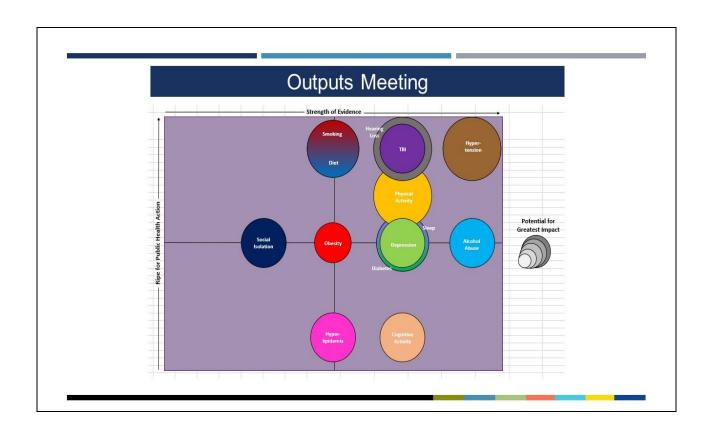


Rebecca Gottesman Johns Hopkins University

# Framing Questions

- I. To what extent does the potential dementia risk and protective factor have strong evidence from a population-based perspective?
- 2. To what extent is the potential dementia risk and protective factor ripe for public health action (i.e., Does it have promising [strong evidence-based] community-level interventions)?
- 3. To what extent would the potential dementia risk and protective factor, if addressed by the public health community, have strong public health impact (including in diverse communities)?
- 4. Does the potential dementia risk and protective factor have interventions or actions that individual health care providers/teams can recommend to their patients?

| Outputs Meeting  |  |
|--|--|
| Agenda Item  | Lead                                       |
| Welcome and Thank You  | Lisa McGuire                               |
| Objective and Approach   | Kelly O'Brien                              |
| Report out & Discussion Group A Obesity, Diet, Sleep, TBI                                      | Josh Chodosh &<br>Jewel Mullen             |
| Report out & Discussion Group B Physical Activity, Tobacco/Smoking, Alcohol                    | Laurie Whitsel &<br>Caraline Coats         |
| Report out & Discussion Group C Social Isolation, Depression, Hearing Loss, Cognitive Activity | Marilyn Albert &<br>Joe Chung              |
| Report out & Discussion Group D<br>Hypertension, Hyperlipidemia, Diabetes                      | Rebecca Gottesman & Karthik<br>Sivashanker |
| Combined Scores and Summary  | Matthew Baumgart                           |
| Building a Plan for Dementia Risk Reduction:<br>Next Steps                                     | Kelly O'Brien                              |
| Thank you and Close  | NAPA Co-Chair, Katie Brandt                |



# **Review Process**

- 1. Recommendations and strategies sent to external reviewers
  - NAPA Advisory Council Members and Co-Chairs
  - Subcommittee co-chairs
  - Workgroup members
  - · Researchers, NGOs, and other professionals
  - Tribal expertise
  - Volunteers
- 2. Comments incorporated
- 3. Present recommendations to NAPA Advisory Council
- 4. Submit final recommendations and strategies



# Recommendations for a Goal and the Focus of Effort

Matthew Baumgart
Vice President, Health Policy
Alzheimer's Impact Movement
Alzheimer's Association





## **Recommendation: Goal**

## Add a sixth goal to the National Plan:



- Prevent and Effectively Treat Alzheimer's Disease and Related Dementia by 2025
- 2. Enhance Care Quality and Efficiency
- 3. Expand Supports for People with Alzheimer's and Related Dementias and Their Families
- 4. Enhance Public Awareness and Engagement
- 5. Improve Data to Track Progress
- Reduce the Burden of Risk Factors for Alzheimer's Disease and Related Dementias



## **Recommendation: Focus of Effort**

- From the Outputs Meeting, we identified 10 potential risk factors to recommend as the focus of the National Plan's efforts
- Selection based on:
  - Strength of scientific evidence
  - Ripeness for public health action
  - Potential for impact
- To achieve the goal, reduce the prevalence of these potential risk factors by 15% by 2030



## **Recommendation: Focus of Effort**

| Unhealthy Alcohol Abuse | Physical Inactivity                |
|-------------------------|------------------------------------|
| Depression              | Poor Diet Quality/Obesity          |
| Diabetes                | Poor Sleep Quality/Sleep Disorders |
| Hearing Loss            | Tobacco Use                        |
| Mid-life Hypertension   | Traumatic Brain Injury             |

- 66.8% of American adults have at least one of these potential risk factors<sup>1</sup>
- An aggressive 15% per decade reduction in the prevalence of these risk factors could result in as many as 1.2 million fewer people with Alzheimer's dementia in 2050<sup>2</sup>



<sup>1</sup>Based on data from 2019 BRFSS

<sup>2</sup>Assumes causal link and no other changes to current prevalence projections

# Thank You.

Matthew Baumgart mbaumgart@alz-aim.org











#### STRATEGY A



## **CONVENE SUMMIT**



HHS should convene a bi-annual ADRD summit on risk reduction, with CDC as the lead agency.

- Meetings should establish and update priorities and milestones for addressing dementia risk factors.
- Meetings should address specific barriers/challenges and strategies to effect measureable change for marginalized communities.
- Meetings should engage diverse stakeholders including historically marginalized voices and communities, other federal agencies, state and local public health departments, health providers, educators and payers, community based organizations, and private sector partners. Specific time-bound actions by public and private entities that advance the milestones should be identified. This includes private and public partners outside the traditional ADRD community who focus on the targeted risk factors including depression, diabetes, hearing loss, mid-life hypertension, physical inactivity, poor diet quality and obesity, poor sleep quality and sleep disorders, tobacco use, traumatic brain injury and unhealthy alcohol use.

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#### STRATEGY A



# ANNUAL PROGRESS REPORT

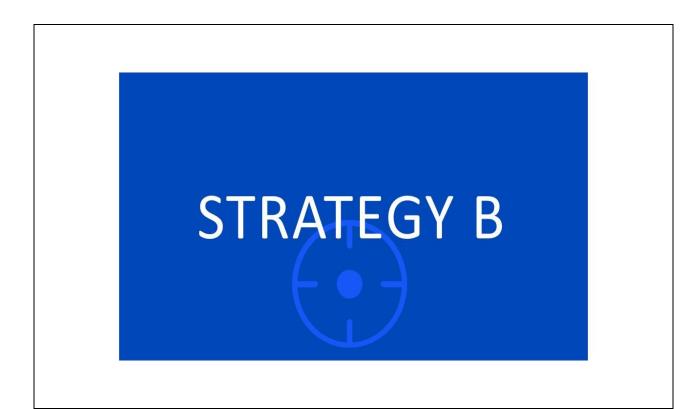


HHS and all relevant federal agencies should identify, coordinate and implement strategies within their current authorities and annually report on progress within the national plan.

In their reports, relevant agencies should:

- Identify gaps and note where additional legislative authority is needed.
- Monitor progress toward the goal, with reporting and updating annually, considering new science, emerging challenges, and opportunities.
- In their internal budget process, annually estimate the federal funding that is needed to successfully reach the milestones, and the Administration's annual budget request to Congress should publicly identify the amounts proposed for addressing dementia risk reduction across all relevant federal agencies.
- Highlight significant actions and progress at the state, local and tribal level.

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#### STRATEGY B





# Public health infrastructure

Sustain and strengthen the public health infrastructure - federal, state, local, community and tribal - for ADRD to support robust efforts to address prevention of dementia risk factors.



# Address social determinants of health

Address social determinants of health that affect risk and health outcomes.

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#### STRATEGY B





# **Target communities**

Develop strategies and interventions to target communities with both the highest prevalence of priority risk factors, low longevity rates, and the highest prevalence of ADRD with explicit attention to the social determinants of health and strategies and interventions for historically marginalized communities.



# Collaborate

Identify opportunities for collaboration with existing public and private initiatives and campaigns designed to reduce the prevalence of diseases, conditions, and other factors that are associated with risk of dementia, such as the Million Hearts initiative and the Diabetes Prevention Program. Increase access of these programs for marginalized communities that are at high risk for dementia.

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#### STRATEGY B





# Align actions with CDC's Healthy Brain Initiative

Align actions with those identified in CDC's Healthy Brain Initiative State and Local Public Health Partnerships to Address Dementia: The 2018–2023 Road Map (S&L) and Road Map for Indian Country (RMIC).

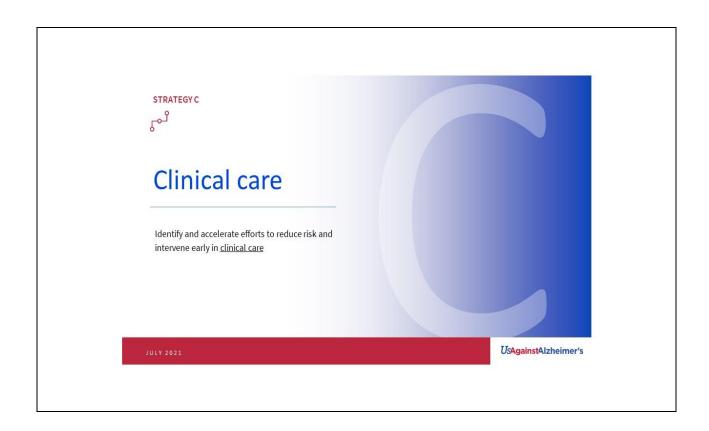
The Road Map series charts a course for state and local public health agencies and their partners to act quickly and strategically to prepare all communities to address ADRD by stimulating changes in policies, systems, and environments. Effectively addressing the rising number of people with Alzheimer's and other dementias will require diligent attention to three fundamental principles in planning and implementing Road Map actions. These principles—eliminate health disparities, collaborate across multiple sectors, and leverage resources for sustained impact—are central to public health and have been noted by many other seminal reports. Relevant actions from the Road Map series and Healthy People 2030 (HP2030) objectives include:

- Educate the public about brain health and cognitive aging, changes that should be discussed with a health professional, and benefits of early detection and diagnosis (S&L E-1, RMIC 1, & HP2030 DIA-3).
- Integrate the best available evidence about brain health and cognitive decline risk factors into existing health communications that promote health and chronic condition management for people across the life span (S&L E-2, RMIC 2, HP2030 DIA-2).
- Promote the use of effective interventions and best practices to protect brain health, address cognitive impairment, and help meet the needs of caregivers for people with dementia (S&L P-1).
- Educate public health and healthcare professionals on sources of reliable information about brain health and ways to use the information to inform those they serve ( S&L W-1).
- Use data gleaned through available surveillance strategies and other sources to inform the
  public health program and policy response to cognitive health, impairment, and caregiving
  (S&L M-3, RMIC 5).

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# STRATEGY C







# **COMPREHENSIVE APPROACH**



CMS, HRSA the VA, IHS, state Medicaid programs, and other public and private payers should identify a comprehensive set of actions to assess and reduce dementia risk, delay the onset of dementia, and improve early intervention, ensuring equitable reach and impact of interventions for historically marginalized populations.

#### This should include:

- Identifying opportunities to reduce the risk of MCI and dementia by addressing known risk factors and support early intervention for Alzheimer's disease and related dementias, including but not limited to beneficiary education; requiring use of specific evidence-based cognitive screening tools in the Medicare Annual Wellness Visit; offering reimbursement incentives; providing payments for prevention and care delivery models; and implementing quality measures.
- Identifying existing benefits related to factors that can potentially help reduce dementia risk, as well as coverage gaps and inequities that, if addressed, could potentially reduce known risk factors associated with ADRD. Examples include: nutrition support; physical activity prescriptions; diabetes management and treatment; audiology assessments and screenings, hearing rehabilitation, appropriate hearing technology; and screening and treatment for depression and unhealthy alcoholuse.

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STRATEGY C





# Improve access to care

HHS should identify and accelerate strategies to improve access to primary care, team-based care, home and community based care and preventive care, including better utilization of existing benefits such as the Annual Wellness Visit.



# **Pilots**

**CMMI should pilot ADRD risk reduction interventions.** For example CMMI could pilot a "Dementia Prevention Program" modeled on the Diabetes Prevention Program, with special attention on optimal implementation including payment, training, delivery, and uptake.

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STRATEGY C





# **WORKFORCE** Training

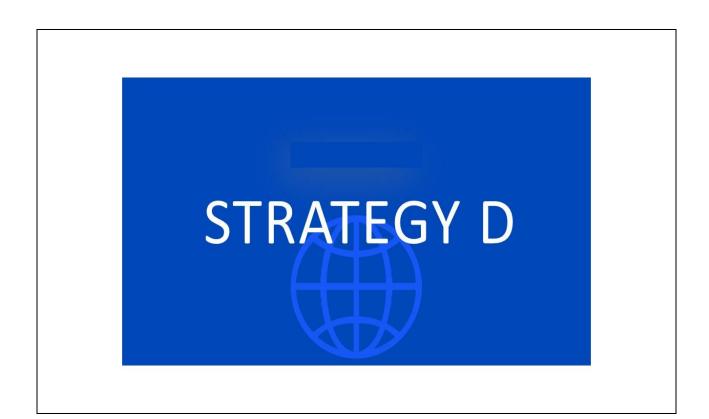
HRSA should develop and broadly implement training curriculum for the primary and community care workforce to improve MCI and dementia risk reduction and early detection.



# Address coverage gaps

Congress should address coverage gaps in Medicare, Medicaid and the VA that would improve interventions for identified ADRD risk factors: for example, Medicare Audiologist Access and Services Act to increase Medicare coverage for hearing and rehabilitation services; and improvements in Medicare's coverage of substance use disorder and mental health services to align with evidence-based practices, current service-delivery models, and standards that apply to other major health care financing programs.

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#### STRATEGY D





# MORE RISK REDUCTION RESEARCH

HHS, including NIH, CDC, AHRQ, and other agencies should:

- Adopt an equity and inclusion framework when developing and supporting research on factors for dementia risk reduction to address biases in eligibility criteria, proportional representation, oversampling, data stratification, systemic racism, historical context, and structural factors that disproportionately impact the health of marginalized and minoritized populations.
- Support specific research to identify linkages to the causal pathway for dementia,
  - including:

     Risk factors that have promising research to date and/or currently lack strong evidence-based public health, community health and/or clinical interventions (e.g., loneliness, cognitive training, and hyperlipidemia).
  - Pinpointing the specificity of successful interventions (such as the duration, frequency, and intensity of physical activity).
  - · The interconnectedness of risk factors and multivariate interventions to address risk factors.
  - · Social determinants of health that may elevate the risk of developing dementia.
  - Demonstrated impacts of risk reduction across the life course and the value of implementing risk reduction interventions before the pre-clinical stage of Alzheimer's disease.
  - Mitigating effects of lifelong disability on risk factors.

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#### STRATEGY D





# ONGOING CDC UPDATES

CDC should periodically update the list of key risk factors that are the focus of efforts to achieve this goal, based on the strength of scientific evidence, ripeness for public health action, and potential for impact and taking into account the needs of and potential benefits to at-risk communities.

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