

Older Adults and Diabetes

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Coach Bev has no conflict of interest

- Not on any speaker's bureau
- Does not invest in pharmaceutical or device companies
- Gathers information from reading package inserts, research and standards
- She does engage in "pill-ow" talk with her husband (who is a PharmD)







Diabetes and Elderly Objectives



- Overview
- Individualizing goals
- Strategies to maximize quality of life
- Self-management considerations
- Diabetes Specialist as advocate





References



Challenges and Strategies for Diabetes Management in Community-Living Older Adults 1.Alan J. Sinclair¹,² and 2.Ahmed H. Abdelhafiz³ + Author Affiliations

Diabetes Spectrum 2020 Aug; 33(3): 217-227.

https://doi.org/10.2337/ds20-0013



12. Older Adults: *Standards of Medical Care in Diabetes—2021* American Diabetes Association Diabetes Care 2021 Jan; 44 (Supplement 1): S168-S179. https://doi.org/10.2337/dc21-S012

Diabetes Education



Older Adults

- Asses the medical, functional mental and social geriatric domains for diabetes.
- Provide individualized care
- Determine targets and therapeutic approaches
- Over age 65, high risk for depression
- Provide nursing home staff with education





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When does old age start?





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When Does Old Age Start?

- "The aging process is a biological reality which has its own dynamic, largely beyond human control.
- Age is also subject to the constructs of each society. (WHO)
- In the developed world, 60 or 65, is said to be the beginning of old age (retirement)







What is the best term for 65+?



Aging: 3 Aspects

Biological age

- "present position of the individual relative to their life span" (ie telomeres)
- Biological age closely related to chronological age, but the two are not identical
- Psychological age
 - Adaptive capacities and subjective reactions relative to their group in society

RUTH BADER GINSBURG

Ruth Bader Ginsburg

https://www.encyclopedia.com/medicine/anatomy-and-physiology/anatomy-and-Diabetes Sucation

Aging: 3 Aspects

- Social Age
 - Social habits and roles of the individual
 - Societies hold agestatus systems that lead to expectations
 of how an individual should behave in relation to others



Grandma





Taiwanese grandparents become Instagram sensations modelling abandoned clothes

The couple from the Houli district of Taiwan began modelling clothes left behind in their laundrette.



Hsu Sho-er, 84, and her husband Chang Wan-ji, 83, have been operating a laundry in the Houli district of Taiwan for the past 70 years.



SERVICES

What does the future hold?

Each person undertakes their own unique path







Poll Question 1

- What percent of the population over the age of 65 has type 2 diabetes?
 - A. 9.3%
 - **B**. 18%
- c. 26%





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Older People and Diabetes Stats

- 26% of Americans age 65 or older have diabetes (11.8 million seniors)
- ▶ 50% of people with diabetes, 65 yrs plus
- 50% of older adults have prediabetes
- Rate of older population with diabetes growing rapidly due to increasing life expectancy.
- Diabetes prevalence to double in next 20 years, in part due to the aging population



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Fried Frailty Index – "Compromised energetics"

Frailty

Meeting 3 out of 5 phenotypic criteria

- Iow grip strength,
- Iow energy,
- slowed waking speed,
- low physical activity, and/or
- unintentional weight loss

Pre-Frail Stage

- 1 or 2 criteria are present
- Identifies a subset at high risk of progressing to frailty



3 Categories of Diabetes Complications in Older Adults – Reciprocal & Synergistic Relationships

Mental Dysfunction

Dementia

Diabetes

217-227.

- Depression
- Behavioral & anxiety disorders

Proximal motor neuropathy

Physical & Neuropathic Complications





Sarcopenia

Frailty



What can we do?

Early assessment plus



Timely intervention



May delay adverse outcomes.





RT, 72 & living with Type 2

- Lives by self
- Recently lost his twin brother
- Had his phone turned off because forgot to pay bill
- Kids want to him to move to "old folks' home"



Diabetes Management includes:

- Metformin 1000 mg BID
- 70/30 insulin 30 units BID



Individualize Goals of Care



Preserve autonomy





- A1c individualized
- 6.5 8%
- Glucose goals
- Before meals 100-130
- After meals < 180

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Older Adults – Psychological Assessment

Social support

- Who do they live with?
- Anyone helping with self-care?
- Feelings

Finances

- Housing, food, transportation
- Activity, Nutrition







RT, 72 & living with Type 2

- Lives by self
- No one outside of diabetes team helps with diabetes care
- Attends support group
- Admits to feeling depressed and angry
- House paid off but has limited income for food and medicine
- Can still drive and shop, but often forgets appointments
- Doesn't drink alcohol or use other substances



Diabetes Medications

- Metformin 1000 mg BID
- 70/30 insulin 30 units
 BID



Psychosocial Issues "Integrity vs. Despair"

- 15-20% of older adults with diabetes live with depression
- Assess other factors that may impact QOL
 - lack of income
 - isolation
 - Ioss of partner, family, friends
 - limited mobility
 - alcohol or substance use







Older adults Substance Use Disorder (SUD)

- 1 million adults, 65+ live with SUD
- Admission for SUD increased from 3.4% to 7.0% from 2001 to

2012



- Alcohol is most used drug for 65+
 - 65% report high risk drinking (exceeding guidelines at least weekly).
 - 10% report binge drinking (4-5 drinks at one time)

https://www.drugabuse.gov/pu blications/substance-use-inolder-adults-drugfacts 2020

Alcohol Use Disorder Accounts for most admission to treatment centers for older adults

- One study documented a 107% increase from 2001 to 2013.
- Alcohol increases risk of:
 - pancreatitis (hyperglycemia)
 - high blood pressure, triglycerides
 - hypoglycemia, malnutrition
 - liver and bone problems
 - neuropathic pain
 - memory issues and mood disorders.

https://www.drugabuse.gov/publications/substance-use-in-older-adults-drugfacts 2020 cation



Older Adults Substance Use Disorder (SUD)



- Cannabis use is on the rise
- Opioid and heroin use on the rise
- About 8-10% of adults smoke cigarettes

https://www.drugabuse.gov/publications/substance-use-in-older-adults-drugfacts 2020





Poll question 2

- Which of the following is true about diabetes and depression in older adults?
 - A. Most older adults with diabetes are depressed.
 - B. Older adults with diabetes are at low risk for depression.
 - C. Older adults need regular evaluation for depression
 - D. Alcoholism is the most common symptom of depression in older adults





ADA Recommendations - Depression

 Older Adults (65 years of age) with diabetes should be considered a high-priority population for depression screening and treatment.





Poll Question 3

- Which of the following statements reflects depression?
 - A. I used to love gardening, now I don't even care.
 - B. Yes, I feel sad that I have diabetes.
 - c. Some mornings, it's just hard to check my blood sugars.
 - D. I am so tired of everyone telling me how to eat!





Depression Assessment

Depression:

- Over the last 2 weeks, have you felt down, depressed or hopeless?
- Over the last 2 weeks, have you felt little pleasure in doing things?

If they say yes to either of these, action is required.



hetes c

If say yes to screening question

PHQ-9

Patient Health Questionnaire – Depression Screen

Over the last 2 weeks, how often have you been bothered by any of the following problems? (use " \checkmark " to indicate your answer)

(use "✓" to indicate your answer)	Not at all	Several days	More than half the days	Nearly every day
1. Little interest or pleasure in doing things	0	1	2	3
2. Feeling down, depressed, or hopeless	0	1	2	3
3. Trouble falling or staying asleep, or sleeping too much	0	1	2	3
4. Feeling tired or having little energy	0	1	2	3
5. Poor appetite or overeating	0	1	2	3
 Feeling bad about yourself—or that you are a failure or have let yourself or your family down 	0	1	2	3
 Trouble concentrating on things, such as reading the newspaper or watching television 	0	1	2	3
8. Moving or speaking so slowly that other people could have noticed. Or the opposite — being so figety or restless that you have been moving around a lot more than usual	D	1	2	3
9. Thoughts that you would be better off dead, or of hurting yourself	0	1	2	3
	add columns		•	+

Quick Depression Assessment

- If there are at least four 3s in the shaded section (including Questions #1 and #2), consider a depressive disorder. Add score to determine severity.
- Consider Major Depressive Disorder - if there are at least five 3s in the shaded section (one of which corresponds to Question #1 or #2)
- Consider Other Depressive Disorder - if there are two to four 3s in the shaded section (one of which corresponds to Question #1 or #2) Diabetes Survices

RT, 76 & living with Type 2

- PHQ-9 had 3 checks in shaded area
- Scored 2 on the Mini-Cog
- Ran out of insulin a week ago
- Forgot to check
 blood glucose levels
- Blood sugar "high"



Diabetes Medications

- Metformin 1000 mg BID
- 70/30 insulin 30 units BID



NeuroCognitive Function

- Hyperglycemia is associated with cognitive function decline
- Longer duration of diabetes worsens cognitive function
 - Vascular Dementia
 - Alzheimer's
- Perform annual cognition screen



- Treatment:
 - Refer to specialist for assessment
 - Achieve optimal BG control
 - Pharmacist to evaluate drug safety and potential drug interactions

Keep physically active

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Link Between Gut and Brain



Human gut microbiota: the links with dementia development. Protein & Cell 2017 Alkasir, Li, Li, Jin, Zhu

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Cognitive Issues

Persistent hypo and hyperglycemia can double risk of cognitive dysfunction and dementia

Diabetes increases risk of incident depression by 27%

Diabetes + Dementia + Depression a pathway to mental disability

- Self care gets compromised
- Less able to detect and treat hypoglycemia
- Dementia decreases communication ability
- Safety becomes an issue

Challenges and Strategies for Diabetes Management in Community-Living Older Adults Diabetes Spectrum 2020 Aug; 33(3): 217-227. https://doi.org/10.2337/ds20.0013



Cognitive Screening - Mini-Cog

- "I am going to say three words that I want you to remember now and later.
- The words are banana, sunrise, chair.
- Please say them now." Give the person three tries to repeat the words.
- You may repeat the words to them for each try.
- If they are unable to repeat the words back to you after three tries, go directly to the clock drawing.

Next, ask them to draw a clock



https://mini-cog.com/mini-coginstrument/standardized-mini-coginstrument/

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Cognitive Screening – Mini-Cog

- Tasks "Please draw a clock in the circle."
- "Put all the numbers in the circle"
- "Now set the hand to show ten past eleven."
- Recall the 3 items
 banana, sunrise, chair.

- Score 1 for each task performed and for each item
- A score less 3 of the 5 items defines cognitive impairment



Example of the same person drawing a clock over time with increasing dementia
Action Needed for RT

- Let provider know about PHQ and Mini-Cog Test
 - Referral to Gerontologist



- Not taking insulin
 - Found free service where volunteers would call every day to remind to check glucose and take insulin
 - RT to check in with Diabetes Educator weekly
 - Bought extra 70/30 insulin from Walmart, \$25 a vial



Older Adults (≥65 years) with diabetes

- Annual screening for early detection of mild cognitive impairment or dementia
- High priority population for depression screening and treatment



- Avoid hypoglycemia in this high risk group
 - Prevent hypo by adjusting glycemic targets and adjusting pharmacologic interventions



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Breath and Beauty







Consider the Individual

Start with a thorough assessment During the initial interview, ask questions to reveal medical, functional, mental and social domains.

 This will help to provide a
 framework to determine realistic targets and best treatment approaches.





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Consider the Individual

- Eval ability to afford diabetes medication, food and shelter.
- Well phrased questions can provide opportunities for sharing and collaborative problem solving







Poll Question 4

- A daughter of an 83-year-old with diabetes asks you about what particular issues to watch for with her mother? Which of the following is most important to monitor for her older mother with diabetes?
 - A. Hypoglycemia
 - B. Ability to send an urgent text
 - C. Keeping morning BG 80-130
 - D. Making sure she has a 30gm snack at night







Avoid Hypoglycemia in Older Adults

- Associated with
 - Cognitive decline
 - Falls
 - Arrythmias.
- Screen for hypo on regular basis
- Prevent and determine cause
- Make needed med /food adjustment



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When to Contact Provider – Hypo/Hyper Guidelines:

- Hypoglycemia indicates TOO MUCH Diabetes Medication
- Have plan in case of low blood glucose ahead of time

For People with diabetes - When to contact Health Care Team

- BG < 70 Eat and call provider immediately</p>
- ▶ If BG 70 100 Eat and call provider within 24 hours
- BG > 250 within 24 hr period
- BG > 300 on 2 consecutive days, unusually high BG
- If sick, risk of dehydration and/or hyperglycemic crises



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Reducing Risk of Hypo

- Evaluate Kidney function
 - If creat >1.4, GFR < 60</p>
 - Give long acting insulin in morning
 - Made need lower dinner bolus insulin
 - Avoid long acting sulfonylureas
 - glipizide best choice in am
- Evaluation Hypoglycemia awareness and action
 - Assess food access and timing
 - Ongoing monitoring and problem solving





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Older People with diabetes

- Are often
 - Undertreated and
 - Overtreated







Functional Considerations – Older Adults with Diabetes

- Peripheral Neuropathy in 50-70%
 - Postural instability which limits physical activity
- Falls and Fractures –higher risk w/ diabetes
 - Women at risk for hip and humeral fractures
 - Consider physical therapy, balance practice
- Polypharmacy 6 or more drugs daily
 - Affordability, interactions, increased risk of falling
- Visual impairment in 20%
- Hearing impairment twice as common





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Treatment Goals based on:

- Length of time living with diabetes (new onset, undiagnosed for many years or longer history)
- Presence or absence of complications
- Comorbidities
- Degree of frailty
- Cognitive function
- Life expectancy (often longer than expected)
- Functional status



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Poll Question 5

RT, is a healthy 74-year-old who is on metformin 1000mg BID. He has had diabetes for 11 years. His latest A1c was 7.3% What is your response?



- A. Good job, let's get the A1c less than 7%
- B. Have you been snacking more than usual?
- C. What do you think about your A1c level?
- D. Let's add on another medication to get your A1c to target.



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Healthy & Good Functional Status

- Set more intensive goals if:
 - Good cognitive and physical function
 - Expected to live long enough to reap benefits of intensive management,
- Ongoing follow-up to eval safety and hypoglycemia frequency

Goals:

- Reasonable A1c goal <7.0 7.5%,</p>
- Fasting BG 80 130
- Bedtime Glucose 80-180
- Blood Pressure < 140/90</p>
- Statin unless contraindicated or not tolerated



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Poll Question 6

• HR is a 78 year old with a stroke and limited cognition. She has had diabetes for 8 years and is on intensive insulin therapy: Humalog coverage at meals and Lantus at night. Her A1c is 6.2%. She has a part time care taker. What do you suggest?



- A. Evaluate food intake
- B. Discuss de-intensifying insulin regimen
- C. Move Lantus to morning
- D. Stop insulin and start on oral medications





Patients with Complications and Reduced Functionality - Less Intense Goals

- For older adults with
 - advanced diabetes complications,
 - life-limiting illnesses
 - substantial cognitive, functional impairment.
- Less likely to benefit from reduced
 risk of microvascular complications
- At higher risk of hypoglycemia, hypotension and adverse effects from polypharmacy





Older Adults with Complications and Reduced Functionality - Less Intense Goals

- Intermediate remaining life expectancy, high treatment burden, hypo and fall risk.
- Consider DE-Intensification
- Goals:
 - Reasonable A1c goal <8.0%</p>
 - Fasting BG 90 150
 - Bedtime BG 100-180
 - Blood Pressure < 140/90</p>
 - Statin unless contraindicated or not tolerated





Very Complex Pts with Poor Health

• For people with:

- limited life expectancy and end stage chronic illnesses, benefit uncertain
- Focus on quality of life and avoidance of hypo & hyperglycemic crisis.
- Goals:
 - A1C goal based on individual
- Fasting BG 100 180
 - Bedtime BG 110-200
 - Blood Pressure < 150/90</p>
 - Consider likely benefit of statin unless contraindicated or not tolerated





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ADA Recommendations – Long Term Care Facilities

- Patients with diabetes residing in long-term care facilities need:
 - careful assessment to establish glycemic goals
 - make appropriate choices of glucose-lowering agents based on their clinical and functional status.
 - Evaluation of frequency of BGM







Long Term Care Consideration

- Staff training Consider diabetes education for long-term care facilities to improve care
- Nutrition at high risk for under-nutrition.
 - Tailor diet to culture, preferences and personal goals
- Hypoglycemia more vulnerable to hypo
 - Due to multiple comorbidities
- Ongoing eval
 - Federal guidelines MD must assess pt every 30 days for 1st 90 days, then once every 60 days
 - Pt may be experiencing hypo/hyper without tx change





ADA Recommendations – Palliative Care

- In older adults with diabetes,
 - strict blood pressure control may not be necessary, and withdrawal of therapy may be appropriate.
 - Similarly, the intensity of lipid management can be relaxed, and withdrawal of lipid-lowering therapy may be appropriate.
 - Avoid glucose extremes to prevent hypoglycemia or hyperglycemic crisis.







ADA Recommendations – End of Life

Overall comfort, prevention of distressing symptoms, and preservation of quality of life and dignity are primary goals for diabetes management at the end of life.







Shared Decision Making

 For all these situations, a patient-centered approach and shared decision making can help establish goals and treatment strategies that are reasonable for the patient,
 family and provider.







CV Risk Reduction – Older Adults

- When treating Cardiovascular risk factors consider time frame of benefit and the individual patient.
- Hypertension treatment is indicated in virtually all
 older adults
- Lipid-lowering and aspirin therapy may benefit those with longer life expectancy







Goals – Keeping it in Perspective

- Greater reductions in death and complications may result from CV risk factor reduction than tight BG control alone
- Strong evidence to treat HTN
- Less evidence for lipid lowering and aspirin therapies
- Research ongoing



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Older Adults and Medications

- In older adults at increased risk of hypoglycemia, meds with low risk of hypoglycemia are preferred.
- Overtreatment of diabetes is common in older adults and should be avoided.
- Deintensification (or simplification) of complex regimens is recommended to reduce the risk of hypoglycemia, if it can be achieved within the individualized A1C target.





Medications – Biguanides

- Metformin 1st Line agent in older adults
 - Use caution in those with impaired renal or hepatic function or CHF on diuretics.
 - Temporarily hold during acute illness, procedures which may compromise renal and liver function.
 - Use long acting version to decrease N/V
 ADA Star



ADA Standards of Care Older Adults, 2020 https://care.diabetesjournals.org/content/43/Supplement_1/S152

Older Adults - Secretagogues

Sulfonylureas

- Glipizide is preferred
- Cause hypo, use cautiously
- Review signs of hypo, treatment and follow-up
- Associated with 5-7 lb wt gain
- Glyburide contraindicated (hypo)
- BG monitoring helpful
- If experiencing hypo, contact provider to decrease dose

DC 60505-01	41.0 Insh
	4140 Series
Glipizid	le set
ablets U	ISP
5 mg	Surface Surface Subalit
100 Tablets	5 Open 1
	Glipizio ablets U 5 mg 100 Tablet

ADA Standards of Care Older Adults, 2020 https://care.diabetesjournals.org/content/43/Supplement_1/S152

Older Adults – SGLT-2 Inhibitors

Benefits of these Glucoretics

- Can lower weight / BP
- Reduces risk of CVD, Heart failure and preserves long term kidney function
 - Consider empagliflozin, dapagliflozin, canagliflozin
- Considerations
 - Cost may be a barrier
 - Monitor GFR, weight loss
 - Hypotension, dehydration, electrolyte imbalances
 - Increased risk of genital infections.

ADA Standards of Care Older Adults, 2020 https://care.diabetesjournals.org/content/43/Supplement_1/S152



Older Adults: DPP-IVs

- DPP-IV Inhibitors
 - Few side effects, no hypo
 - Cost may be barrier
 - A1c drop about 0.6%
 - Heart failure risk with saxagliptin?





Older Adult Consideration: GLP-1s

- GLP-1 Receptor Agonists
 - CV benefits
 - Injections may require more visual, cognitive and motor coordination.
 - Can cause N/V and lead to weight loss
 - Can be costly
 - More research needed





Medication Factors to Consider

- Construct a tailored care plan
- Social difficulties and living situation
- Assess affordability
- Get meds from one pharmacy
- Keep list of meds on hands



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Physical Activity Benefits for Older Adults

- Lower overall mortality.
- Lower risk of
 - coronary heart disease.
 - colon cancer.
 - diabetes.
 - high blood pressure
 - obesity.
 - falls and injury
 - Alzheimer's

National Institute on Aging



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Improved QOL / function

depression

Improves

- Function in persons with arthritis
- Mental clarity



- Google Go4Life
- Exercise ideas
- Videos
- Resources



Try These Exercises

Get Started



Be a Partner

Get Free Stuff



Go to My Go4Life



Nutrition Considerations for Older Adults



- Asses for underweight
- Smaller more frequent meals
- Fortify usual foods
- Adding liquid nutrition supplement
- Identifying community resources (meals on wheels, Senior Centers, etc.)
- Encourage fluid intake
- Snacks as needed
- Cultural preferences and palatability



Older Adults at Risk for Malnutrition

Due to:

- Altered taste and smell
- Swallowing difficulties
- Oral/dental issues
- Functional difficulties shopping for/preparing food
- Anorexia
- Overly restrictive eating patterns carb deprivation
 - Self-imposed or provider/partner directed




MALNUTRITION: AN OLDER-ADULT CRISIS

Just 4 steps can help improve older-adult malnutrition care

\$51.3 Billion

Estimated annual cost of disease-associated malnutrition in older adults in the US'



Up to 1 out of 2 older adults are at risk for

are at risk for malnutrition^{2,3}

20% to 50% of patients are malnourished or at

risk for malnutrition

on hospital admission⁴



300%

The increase in healthcare costs that can be attributed to poor nutritional status⁵



4 to 6 days How long malnutrition increases length of hospital stays³

Chronic health conditions

lead to increased malnutrition risk



Malnutrition leads to more complications, falls, and readmissions⁶



- Improve patient outcomes⁷
- Reduce readmissions
- Support healthy aging
- Improve quality of healthcare

Support policies across the healthcare system that defeat older-adult malnutrition. Learn more at www.DefeatMalnutrition.Today

References: 1. Snider JT, et al. JPEN J Parenter Enteral Nutr. 2014;38(2 suppl):77S-855. 2. Kaiser MJ, et al. J Am Geriatr Soc. 2010;58(9):1734-1738. 3. Izawa S, et al. Clin Nutr. 2006;25(6):962-967. 4. Barker LA, et al. Int J Environ Res Public Health. 2011;8(2):514-527. 5. Correla MI, et al. Clin Nutr. 2003;22(3):235-239. 6. Norman K, et al. Clin Nutr. 2008;27(1):5-15. 7. Philipson TJ, et al. Am J Manag Care. 2013;19(2):121-128.

Weight and Older Adults

- Elevated BMI prevalent
- Increases decline in physical function
- Increases frailty

CDC

Encourage strategies that combine physical activity, nutrition therapy to promote wt loss







Sleep

- Poor sleep associated with higher glucose levels.
- People with dementia may sleep more or have disrupted sleeping patterns.
- How much sleep are you getting a night?
- Do you wake up well rested?
- Have you had a sleep study?





Oral Hygiene

- Oral health affects blood glucose and vascular inflammation.
 - Gums swollen?
 - Brushing frequency
 - Flossing frequency
 - Dental visits
 - Tooth abscess?
 - Dentures fitting?



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Social Connectedness

- Is key to healthy aging.
- Studies have shown that older people who have close connections and relationships not only live longer, but also cope better with health conditions and experience less depression.
- Weekly groups
- Volunteering
- Social Media
 Connections
- Family nearby
- Places of worship

Pets

https://www.healthinaging.org/blog/socialconnectedness-a-key-to-healthy-aging/

INDIVIDUALIZE – The Best Strategy for All Ages

- Consider the individual
- Identify polypharmacy/ financial problems
- Promote diabetes selfmanagement training
- Recognize emotional distress
- Emotional support Support Groups
- Realistic goal setting
- Follow-up and resources





GREAT DREAM Ten keys to happier living

Action for Happiness has developed the 10 Keys to Happier Living based on a review of the latest scientific research relating to happiness.

Everyone's path to happiness is different, but the research suggests these ten things consistently tend to have a positive impact on people's overall happiness and well-being.

The first five relate to how we interact with the **outside** world in our daily activities. The second five come more from **inside** us and depend on our attitude to life.



HAPPINESS is not something ready made. It comes from your own actions. ~Dalai Lama



⁶⁶ People will forget what you said, people will forget what you did, but people will never forget how you made them feel ⁹⁹ ~ Maya Angelou

ACTION FOR HAPPINESS

Actionforhappiness.org

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Hope: Our Best Gift



Thank You





Thank You



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