

Our experts share their
research insights on how to live a
long, happy and healthy life.

the longevity guide

BY SUSAN BELL AND MARGARET CRABLE

ILLUSTRATIONS BY TRACI DABERKO



AFTER TURNING 65, the average American enjoys just one additional year of life without significant health issues, according to the World Health Organization. But it doesn't have to be that way. Adopting the right health behaviors is crucial for extending our years of good health, but sticking with them isn't always easy — especially when they require significant effort.

Daphna Oyserman, Dean's Professor of Psychology and co-director of the USC Dornsife Mind and Society Center, is an expert on the psychology behind decision-making. Her research on identity-based motivation sheds light on what drives our decisions and offers some important tips on how to make the best choices for our health and well-being.

According to Oyserman, one important factor influencing our decision-making or habit-forming processes is whether it feels easy or difficult to imagine ourselves doing the action in question. "When it feels challenging, we might quickly conclude it's not for us," she says. "This mindset leads to a self-defeating prophecy: We fear we will fail and thus opt to not waste time trying. As a result, we invest less effort or shift to something else."

Oyserman argues that rethinking our response to difficulty is essential. "Many important, valuable things *are* hard to execute. Shifting our mindset to view challenges as a natural and essential part of achieving valuable goals makes it more likely we'll embrace them. Think about it as 'no pain, no gain.'"

Applying this principle to health behaviors, which often demand consistency and repetition, makes it easier to commit to habits that foster well-being. Recognizing that it's inherently difficult to maintain such habits for their long-term benefits can motivate us to stick with them and improve our quality of life. "If each habit feels hard and I tell myself: 'It's not for me, I don't want to waste my time,' I'm simply going to be much less likely to do healthy things," Oyserman says.

The alternative is to consider that important things in your life — such as healthy behaviors that will increase longevity and well-being — are actually worth engaging in.

The implications of this mindset extend beyond the present, highlighting the importance of establishing good habits early in life. Research suggests it's beneficial to start as soon as possible, particularly during the pivotal years of adolescence.

Oyserman's research extends into middle-school classrooms, where she examines the effects of identity-based motivation on eighth-grade students. Through a six-week program, students engage in activities designed to internalize the "no pain, no gain" concept. The outcome? These students tend to outperform their peers academically, show increased engagement with their schoolwork and, notably, exhibit fewer symptoms of depression.

In adults, Oyserman's research on self-perception — including self-efficacy, self-esteem and self-compassion — reveals that individuals who view difficulties as impossible obstacles generally experience lower levels of these traits. Conversely, those who see challenges as opportunities for growth report higher levels in all three areas.

Yet, Oyserman points out, both perceptions can play a positive role in our decisions relating to health and well-being. Her findings suggest that maintaining flexibility is key. "What really matters is the ability to recognize when to step away and when to invest more effort," she says. "This adaptability can be the deciding factor in both our happiness and health. Sometimes walking away preserves or increases well-being, while at other times, the answer is to roll up your sleeves and dig deeper."



Gut reaction

A long life is best enjoyed with a healthy brain. A growing body of evidence suggests the key to that may lie in our gut.

Our stomachs are teeming with trillions of bacteria that are not only essential for digesting food but also communicate with the brain via the vagus nerve, which connects the large intestine to our brain stem. Research shows this connection to have such a great influence on our mental state that our dietary choices can strongly affect our moods, stress levels and even memory. The relationship is so intertwined that scientists have dubbed the stomach our "second mind."

This symbiotic relationship between the brain and the gut has been crucial throughout human evolution. "For our early ancestors, remembering events and details related to eating supported their survival, guiding foraging and consumption behavior," says Scott Kanoski, a professor of biological sciences who studies the link between diet and brain function.

Because of this close relationship, our eating patterns have an outsized impact on our cognitive functioning. Kanoski's recent study involving rats revealed that the consumption of either sugary beverages or artificially sweetened drinks during adolescence could impair memory in later life. These findings suggest that making simple changes, like swapping soda for still or sparkling water might be a good first step to preserving cognitive function over time.

Determining the best diet for brain health can be confusing, considering the plethora of conflicting dietary advice. In fact, when it comes to foods to boost brain function and memory, the evidence is more definitive about what to avoid.

To keep our minds firing on all cylinders, Kanoski recommends we swap the refined carbohydrates contained in white bread for whole grains, minimize consumption of saturated fats such as those found in fried foods, and avoid ultra-processed foods like chips and hot dogs.

5 Ways to Give Yourself a Boost

Enhance your well-being with these popular self-care practices from around the world

1 FOREST BATHING OR "SHINRIN-YOKU" (JAPAN) This popular pastime involves immersing oneself in nature and focusing on sensory engagement. Reputed benefits include reduced stress, lower blood pressure and improved immune function. "As two-thirds of Japan is covered by forests, perhaps it isn't surprising that this practice originated there," says Duncan Williams, director of USC Dornsife's Shinso Ito Center for Japanese Religions and Culture.

2 SAUNAS (FINLAND AND SWEDEN) Dating to the 12th century, the tradition of the sauna is reputed to improve cardiovascular and mental health, socialization, exercise performance and muscle recovery. Saunas may also alleviate chronic pain and fatigue, reduce the risk of stroke, respiratory disease and dementia, and promote relaxation, stress reduction and better sleep.

3 INSECT-BASED NUTRITION (ASIA, AFRICA, LATIN AMERICA) Insects are a sustainable, nutritious and high-protein food source that offer health benefits. Some even find them delicious. According to the National Institutes of Health, approximately 2,000 insect species are consumed in at least 113 countries. Michael Petitti, associate professor (teaching) of writing, notes that "chapulines" — grasshoppers fried in garlic and chili and garnished with lime, which he introduces to his students at an East Los Angeles market — may seem like a novelty item to many. "But they also could represent the future of food," he says.

4 WILD WINTER SWIMMING (BALTIC STATES, RUSSIA, NORDIC COUNTRIES) Taking a dip in an icy cold sea or lake has long been a New Year's tradition in many parts of the world, but the practice of regular wild swimming during the winter months is growing in popularity. Devotees say it improves mood, increases cardiovascular and metabolic health and strengthens the immune system — and the research concurs.

5 VORFREUDE (GERMANY) The German concept of "Vorfroede," which translates as "the anticipation of joy," is reputed to help increase well-being, reduce stress and avoid burnout. "You don't have to wait for 'grand' moments, you can plan small, everyday delights to create anticipatory joy that will enable you to benefit from Vorfroede," says Britta Bothe, professor (teaching) of German.

Never Past Your Prime

Four life peaks we reach after 40.

Contrary to popular belief, growing older is not all gloom and doom, far from it. “People worry about growing old because our image of old age is dominated by decline. But the expectation that everything will get worse as we get older is simply false,” says Norbert Schwarz, Provost Professor of Psychology and Marketing. “Particularly in North America, Europe and more affluent societies of Asia, life gets better as we age.”

In fact, growing older means we can look forward to hitting several peaks in cognitive ability, not to mention becoming happier and quite possibly nicer. There is also an increased chance of winning an ultramarathon — and even that coveted Nobel Prize.

So, could your prime still be ahead of you? Here are some peaks to look forward to in later life.

RUNNING ULTRAMARATHONS Ultrarunners peak far later than other athletes: between 40 and 44 for women and 45 to 49 for men, according to a 2020 study of runners who completed 100km ultramarathons. And the longer the race in either distance or duration, the older the runners with the peak performance. There are even ultramarathon winners in their 70s.

COGNITIVE ABILITY The belief that we’re at our sharpest mentally in our 20s and 30s and that it’s all downhill from there is challenged by studies showing that several areas of mental acuity are highest in the second half of our lives. Chess players make the greatest number of “optimum” moves at around age 40. You may have mastered your multiplication tables in elementary school, but research studies show that ability to solve arithmetic problems peaks at about 50. Vocabulary reaches its zenith even later, in our late 60s or early 70s. And if you’re aiming to win a Nobel Prize, you can take comfort from the fact that most winners who receive the ultimate accolade do so in their early 60s.

HAPPINESS Study after study confirms it: Happiness declines from youth to middle age and increases again into old age. “The expectation that happiness declines after your 30s is wrong — it goes up again as you get older, continuing into old age,” says Schwarz. The reason? “Once we retire, a lot of the stresses of daily life, such as parenting, pursuing a career and striving to advance, are gone. You are free to spend your time with people you like and engage in leisure activities you enjoy.”

AGREEABILITY Research suggests adults become more agreeable with age. “Older people are nicer in social interactions, perhaps partly because they can be more selective in whom they interact with,” says Schwarz. He notes that older people tend to avoid situations — and people — that cause them distress.

One is the loneliest number

A long and healthy life may require a little help from our friends. That can be challenging. In 2023, the U.S. Surgeon General referred to a “loneliness epidemic.” Even before the COVID-19 pandemic, nearly one in two Americans reported significant feelings of loneliness.

The condition has serious implications for public health: Prolonged social isolation is associated with an increased risk of stroke, diabetes, cardiovascular disease, dementia and premature death.

A new study by Morgan Lynch, a doctoral student in psychology, discovered that the loneliest older adults exhibited poorer cognitive function and accelerated signs of aging. While it’s still unclear whether perceived social isolation directly contributes to the development of dementia or if individuals with cognitive decline find it harder to socialize, there is a genetic link to loneliness, as there is to dementia. However, Lynch notes, it’s not all up to fate. “While we can’t change our genetics, we can mitigate about 50% to 60% of our risk for loneliness and dementia through lifestyle choices,” she says.

But making social connections is increasingly challenging. Declining interest in traditional pillars of community, like marriage and religious gatherings, coupled with our skyrocketing propensity to spend time online, has contributed to a record number of Americans living alone and having few close friends.

USC’s Director of Belonging Cat Moore ’05, is an expert in helping others find community. Her advice for the lonely? Start by creating a “belonging map” to identify where in your routine you regularly see others. This can offer opportunities for building connections, both large and small. Next, take a coworker out for coffee, chat with a neighbor or exchange hellos with your bus driver.

“The best strategy to keep connected long-term,” Moore says, “is becoming someone who creates belonging wherever they go.”



Tuning In to Well-Being

Music might be one antidote to our increasingly isolated world.

“In an evolutionary sense, we’ve been sitting around fires, playing music and singing for a very long time,” says Assal Habibi, head of the Brain & Music Lab at USC Dornsife’s Brain and Creativity Institute. “It’s one of the basic elements of our health and well-being.”

Habibi, associate professor (research)

of psychology, studies how musical engagement affects the well-being of people of all ages. Her research spans the developmental effects of music practice in children to its influence on alleviating loneliness and enhancing memory in older adults.

“My research shows that access to high quality music education is significant for students to flourish and to learn social-emotional skills such as compassion, empathy, perspective taking and agency,” she says.

Habibi is particularly interested in

how musical instruction can improve children’s emotional self-regulation — a skill linked not only to academic success but also to long-term mental health and addiction prevention.

For older adults, even those with no previous music training, Habibi’s work uncovers the transformative power of music. Her findings indicate that seniors who learn how to sing in a choir experience improvement in vitality, anxiety levels, social connectedness and loneliness.

“Study participants, even those in their 70s and 80s who were initially reluctant to sing, found so much joy and social reward when they engaged with familiar songs and synchronized with others in the choir,” she recounts. “Their shyness and cultural inhibitions disappear.”

Additionally, Habibi’s research suggests that sustained music training can counteract difficulties in discerning speech in noisy environments such as restaurants or family gatherings — a problem that often leads to social withdrawal and loneliness in older adults.

The cognitive and memory benefits of music are significant, as Habibi’s team has discovered. Listening to nostalgic music can help seniors reconnect with their personal histories. This has proved especially therapeutic for those with dementia and mild cognitive impairment by easing the associated anxiety, agitation and depression.

But the benefits of musical activity, particularly in community settings, such as a choir or an orchestra, extend beyond personal enjoyment or therapeutic effects; musical activity fosters community and connection, which are essential throughout our lives.

And it isn’t necessary to become a performer or a conservatory-trained musician to reap the rewards. “I always say, ‘Everyone can sing. Today is the right day to pick up an instrument and learn to play, sing with your family and sign up to join a choir,’” says Habibi. “It’s not too late.” **D**