# Ageing Well Public Talk Series 2021/22

Talk 1. Are we prepared to live longer?

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### Slide 1: Why are we here today…

* The world population is rapidly ageing.
* We are all ageing since the day we are born.
* Physical and psychological/cognitive decline that happens at different speeds for different individuals.
* Ageing processes are in general very difficult to predict.
* Genetic predispositions we may need to take into account regarding the overall ageing the process is also co-defined by what we actually do about it.
* USE IT OR LOSE IT - in other words, both cognitive and physical stimulation while ageing, help to preserve cognitive and physical functions we don’t want to lose.  Especially during COVID-19 times.

### Slide 2: Building bridges – conventions & paradoxes ‘Education is for the young & Internet is full of resources’

* The older we get, the more existing schemas and new information we need to assimilate and as when education is combined with experience, then it becomes the most useful knowledge.
* The older we get the more needs for education we have. How to stay healthy, how to keep active, how to keep our brains in good shape so that we can enjoy life for longer. This is not always common knowledge and we grow older we can make good use of it especially when we don’t have easy access to internet and or have hard time finding the right information there.
* The internet is full of materials and information - but still not easily accessible (in terms of language, reliability and validity of research) by everyone, particularly people who need this information, older people who may not be very techy.

### Slide 3: Ageing well – public talk series

* Building bridges
* Component of an international online education platform for clinicians and allied health professionals (in China) streamed via the UKeMED & Cambridge Medical Academy.
* During the ‘Ageing Well’ talks we explore approaches which may enable us to live longer and healthier lives. Theories of ageing, biomedical and psychosocial aspects of ageing, the most common comorbidities, and the ageing brain are some of the concepts that are explored in the series.
* ‘Five Pillars of Ageing Well’

### 2022/23 Series plan

* Are we prepared to live longer? (Jitka Vseteckova, Lyndsey Simpson & Catherine Pestano) September 14th, 2022
* Taking control of dying  (Barbara Gale & Victoria Hedges) October 19th, 2022
* Memory and preserving Sense of Self while ageing and spending time outdoors (Helen Joannidi & Ellie Broad) November 16th, 2022
* Equality, diversity and inclusion in access and provision of care in health services (Carlos J Moreno-Leguizamon) December 14th, 2022
* General Practice ‘COVID-19 and beyond’ (Andrew Potter) January 18th, 2023
* What should we know about nutrition and living with Diabetes Type 2 while ageing.[ (Jitka Vseteckova & Alan Hastings) February 22nd, 2023?
* Relationships and intimacy while ageing(Andreas Vossler) March 15th, 2023
* Let’s talk about sleep (Abigail Methley) April 19th, 2023
* Health inequalities and ageing (Sonal Mehta) May 17th, 2023
* Ways to exercise whilst still having fun (Jackie Richards & David Curry) June 14th, 2023
* Ageing, later life and caring and LGBTQ communities (Tony Collins-Moore & Joseph DeLappe) July 12th, 2023

For more information and live streaming links visit the [Ageing Well Talks 2020-21 Collection on ORDO](https://ordo.open.ac.uk/collections/Ageing_Well_Public_Talks_2020-21/5122166)

### About the talks

* All the way through the ‘Ageing Well’ talks we explore how using this knowledge might facilitate self-management, become partners in our care and delay the ageing processes for as much as we can.
* The emphasis of the ‘Ageing Well’ series is on optimizing cognitive and physical well-being, physiological ageing, and self-management. To a lesser extent, on pathological processes while ageing.
* Promoting physical activity, social activity, networking, learning and healthy lifestyle
* Easy stretching during each lecture

### Messages to be taken home today

* The famous motto about ageing goes as: Use it or lose it! In other words, both cognitive and physical stimulation while ageing, help to preserve the functions we don’t want to lose.
* Especially in COVID-19 times: ‘Do it today’!

### STANDING UP / SITTING DOWN

* Raising up principle - STRAIGHTENING YOUR SPINE
* Proprioception – feeling different parts of your feet on the floor
* Slightly pressing the inner side of your foot to the floor
* Stretching your toes
* Pushing yourselves away from the ground
* Moving head or arms should not necessarily change the way we stand

### Ageing & Epidemiology – basic facts

* The world’s population is rapidly ageing
* Within the next five years, for the first time in human history, the number of adults aged 65 and over will outnumber children under the age of 5.
* Ageing processes bring a decline in physical and cognitive domain. This decline proceeds at variable speed for different organs and different individuals. This is why the ageing in general is so difficult to predict.
* There are some genetic predispositions that may slightly speed up or slow down the ageing processes or show us what we need to be aware of in terms of age related conditions in our predecessors.
* However, the genetic predisposition does not affect 100% of how our ageing might look like especially if we decide to help it.
* Ageing is a process, and this process starts when we are born, therefore ageing does not affect us only from 60 or 65 years onwards (although most often discussed age cut off when it comes to ageing – just manifesting faster)
* Ageing well has become increasingly important also because we live older for longer
* The majority of epidemiologic studies have found slower rates of cognitive and physical decline among those who routinely engage in more cognitively and or physically demanding tasks compared to those with a more mentally and physically sedentary lifestyles.
* Nutrition, hydration, physical, social & cognitive stimulation (includes learning) – five pillars of ageing well
* The way we live our lives will affect the way we age – Are we ready to make those choices?

### Basic biomedical aspects of ageing

* Ageing processes bring about decline to which we try to adapt
* Ageing influences the decline of organs and tissues as well as whole systems
* The way our organs age is different for each and every one of us
* The way the systems age is different for each and every one of us
* Main influences:
	+ Genetics
	+ Epigenetics

### Genetics – are we victims of our genes?

* Increases/may increase the predisposition to certain types of diseases or conditions
* We cannot change the genetic set we have
* We still don’t know enough about genetics & how it works
* We can get some conditions as our parents and grandparents had but we may also only carry forward the specific gene these conditions are linking to …
* We don’t know enough about our predecessors

### Epigenetics – are we victims of our nurture?

* The families we are born into, their habits, their friends and other people and places that surround them, the places, and people we surround ourselves with, the habits we form …
* Influence of the environment from the day of conception
* We have some degree of control over this

### When physiological processes turn pathological

* Physiological ageing equals normal and is expected
* “Normal” aging is a result of natural maturational processes and expected part of the ageing process whereas “pathological” aging is due to non-normative factors such as disease, injury, or trauma to the brain.
* In these series we will focus mostly on physiological ageing and how we can optimise cognitive and physical ageing.

### Main theories of ageing

* Hayflick limit or Hayflick phenomenon
* Wear and tear theories
* Oxidative stress
* Apoptosis

No matter what ageing theory you work with the changes resulting from ageing processes are at physical, psychological, cognitive, and systemic levels:

* Immune system (is a network of cells, tissues, and organs that work together to defend the body against attacks by “foreign” invaders. These are primarily microbes—tiny organisms such as bacteria, parasites, and fungi that can cause infections (low grade infections)
* Self repair mechanisms are also impaired (one of the reasons why cancers happen in later life)
* Nervous system (is a complex network of nerves and cells that carry messages to and from the brain and spinal cord to various parts of the body. Proprioception example – develop linking Central nervous system and Peripheral nervous system (tripping over an obstacle as a delayed response from the brain)
* Endocrine system the endocrine system is the collection of glands of an organism that secrete hormones directly into the circulatory system to be carried towards distant target organs
* Chain of hormones e.g., thyroxine, diabetes and insulin and pancreas, testosterone, (oestrogen and osteoporosis)
* Musculoskeletal system – muscle atrophy, bone fragility, tendon & joint stiffness,
* Cardiovascular system – veins and arteries, atherosclerosis and ageing, regularity of circulation (brain, other organs, respiratory system etc)
* Lifestyle is crucial
* ‘Five pillars of ageing well’

### Cognitive ageing – tiredness of our systems

* Diminished ability to remember names, find the correct word, remember where objects are located, concentrate
* Is this “normal”? Yes
* For more information attend the [Ageing Brain talk (17t h November 2021)](http://stadium.open.ac.uk/stadia/preview.php?whichevent=3634&s=31)
* Tiredness of our systems – when young we have it too, but we can sleep it off – not so easy while ageing as many things come together
* Stress management
* Lifestyle – some of the changes could be slowed down (Five Pillars to Ageing Well)
* Cognitive sphere influences physical and vice versa
* Physical wellbeing is affected by worsening mental wellbeing and vice versa
* Exercise improves our sleep
* Important to do it all when we are still well

### Healthy bones vs Osteoporosis

* Osteoporosis is a condition of fragile bone (increased porosity of the bone)
* Osteoporosis weakens bone and increases risk of bones breaking
* Low levels of physical activity, malnutrition, smoking, decreased levels of calcium and other minerals, menopause / andropause - decrease of hormones
* Bone mass (bone density) starts decreasing after 35 years of age, and bone loss occurs more rapidly in women after menopause.
* Manifests via back pain, sometimes decrease in height, decreased mobility
* Physical activity, nutrition, hydration, supplementation of vitamin D (D3 – active form – calcium binding protein)

### Osteoporosis

* Bone is very important as it protects internal organs, creates support for the body, muscles are attached to it
* Healthy bone is very important to healthy ageing
* Muscle atrophy is a big problem while ageing as it directly affects our postural stability, mobility and falls and also bones

For more details see [Move it and Breathe (May 2022](http://stadium.open.ac.uk/stadia/preview.php?whichevent=3643&s=31&option=&record=0&ran=1808791569&state=1)) and [Standing tall (June 2022)](http://stadium.open.ac.uk/stadia/preview.php?whichevent=3644&s=31) talks.

### Hormonal changes at midlife

* These affect many at the midlife transition both directly and indirectly. This talk considers those who identify and women or possibly non-binary, and also those who identify as men.
* Changes to the sex hormones in the body can also be brought on early through surgery or a condition. If this is not present those born with ovaries and womb can experience a significant substantial series of changes from 30s (more typically 40s) onwards which give rise to a large range of menopause symptoms, affecting every aspect of living.
* Many will need hormonal replacement help. Some will be able to manage through lifestyle shifts including diet. For all these elements will support wellbeing and health through this long transition.
* How long? Possibly 2 years, many experience up to 15 years and some experience till the end of their lives.
* Main symptoms might include:
	+ Physical – exhaustion, genito-urinary & atrophy, joint pain, excessive bleeding, palpitations, bone loss, dry eye, tinnitus, burning tongue, restless legs
	+ Emotional – anxiety, depression, flatlining, anger, mood flux, tears, rage, irrational fear, fluctuating mood
	+ Cognitive/Psychological – brain fog, sleeplessness, sensory overload, hard to concentrate
	+ Relational – family, work, sexual responsiveness/libido loss
* Onset is varied
* Treatable – Systemic and localised Hormonal replacement therapy (HRT) as a first response, along with T4 thyroid testing and testosterone.
* Over 45 - diagnosis by symptoms only.
* Lifestyle changes, especially around ‘Five Pillars for Ageing Well’ to reduce stress and renegotiate social roles, along with medical interventions. Many women need help and find it hard to get.

### Andropause

* Though not paralleling women’s intensity of experience, men can have hormone changes at this time of life, with negative or positive impacts.
* A key difference is that testosterone decline is gradual not sudden. Negative symptoms such as depression, lethargy, loss of sex drive can be treated with replacement hormones. However, these are often unrelated to hormones, more to society’s attitudes to men.
* Help can be offered for existential, or lifestyle related negative symptoms, through therapy, CBT, diet, exercise.

### The New Tribe of Over 50s

* During the 20th Century we have added 30 years to life expectancy. This is a huge societal achievement – This cohort reaching 50-60 are the first to navigate the true meaning of this.
* Age specialists have identified an entirely new life stage, current age 50 – 75, called [gerontolescence](https://www.huffingtonpost.com/dr-alexandre-kalache/how-the-baby-boomers-are-_b_1403431.html).
* This cohort are increasingly experiencing a phase of self-discovery identified as a kind of “second adolescence.” This means new careers or pursuing long-dormant hobbies.
* They are – ambitious, excited about the future, but there are key roadblocks. Ageism is a huge societal issue, including being ostracized from popular media channels.
* The cohort also feel shocked by the stark difference in their health, wealth and opportunity from their own parents' situation at the same age.

### The Rainbow of Retirement = 12-18 months!

* Boredom
* Invisibility
* Change in financial needs from work
* More prevalent in men
* Desire to learn something new/change career
* New confidence to start a business
* Search for purpose
* 56% of employees want to continue working beyond the age of 65
* 65% of employees believe that the job market is closed to them applying for roles aged over 55
* 65% of employers encourage retirement at legal retirement age or before

### False Stereotypes

* 37% of employers cited health / illness as their major concern of hiring over 55s
* 21% of employers cited “lack of energy” as a disadvantage to hiring over 55s
* 90% of employees aged 55-65 believe they have transferable skills to a role or industry if the employer was prepared to offer technical training
* 65% of employers will only hire people already experienced and delivering in a specific role and will not train on technical role or industry skills for 55+ age group
* 89% of over 55s would be prepared to take a drop in salary to retrain in a new role or industry

### The Need is NOW

* By 2050, our working population will shrink to 25%, While the over 60 population will grow by over 40%
* We must add 10 economically productive years to life

HOW?

* Education – the false rainbow of retirement, “work”= good not bad & time to “retire-off” the term retirement!
* Education – to employers, advertisers, governments, society
* Relentless focus on 2 key pillars to drive positive change in all other areas of healthy ageing:

Thank you for joining today & questions. **Jitka & Lyndsey & Catherine**

Email Jitka Vseteckova

Email Catherine Pestano

Email Lyndsey Simpson

[Jitka Vseteckova’s profile on OU website](https://www.open.ac.uk/people/jv2595)

[Details of the Ageing Well Series on ORDO](https://ordo.open.ac.uk/collections/Ageing_Well_Public_Talks_2021-22/5493216)

Talk 2. Taking control of dying  (Barbara Gale & Victoria Hedges) October 19th, 2022

Lifestyles that combine cognitively stimulating activities with physical activities and rich social networks may provide the best odds of preserving cognitive function in old age (La Rue, 2010).

What is your experience?

* Recommendation: Make time for cognitively stimulating activities that you’ve always enjoyed.
	+ Rationale: Continuing favourite activities can ensure sustainability of cognitive stimulation. Long-term exposure to cognitive stimulation may be needed for practical functional benefits.
* Recommendation: Add some new cognitive challenges, as your time and enjoyment permit.
	+ Rationale: Trying new activities may enhance brain plasticity by requiring new learning or development of new cognitive strategies (music lessons, learning a new language, aqua
* Recommendation: Aim to engage in cognitively stimulating activities several times a week or more… generate some “mental sweat”
	+ Rationale: Current knowledge does not permit a prescription for how often or how long individuals should engage in cognitively stimulating activities. However, epidemiologic studies suggest that more is better, within clinically reasonable limits.
* Recommendation: Be aware that there is no one cognitive activity, or combination of activities, that is uniquely good for reducing AD risk.
	+ Rationale: Many different types of cognitively stimulating activities have been associated with preserved cognitive skill. There are no data yet to show that cognitive activities prevent or delay AD.
* Recommendation: Social interactions are a great way to stimulate the mind.
	+ Rationale: Group training of cognitive skills has been shown to be effective in sharpening specific cognitive skills, and broader social networks have been associated with reduced AD risk.

### Hormonal midlife changes - resources

* [International menopause awareness day 18th Oct](https://www.imsociety.org/education/world-menopause-day/), use the resources to raise awareness
* [NICE guidance on the menopause](https://www.nice.org.uk/guidance/NG23)
* [Pausivity free poster campaign and resources](https://www.pausitivity.co.uk/)
* [Dr Louise Newson Free CPD for GP surgeries](https://www.menopausedoctor.co.uk/)
* [Menopause matters](https://www.menopausematters.co.uk/): activism and magazine
* [Case law on Henpicked menopause hub](https://henpicked.net/menopause-hub/)
* [British Menopause Society](https://thebms.org.uk/)
* [NHS website: Andropause](https://www.nhs.uk/conditions/male-menopause/)

## Summary of related resources to The Ageing Well Public Talk Series

### Podcasts

[Vseteckova J & King J (2020) COVID-19 Interview podcast for The Retirement Café: ‘*Ageing Well Under Lockdown’*](https://theretirementcafe.co.uk/077-dr-jitka/)

[Vseteckova J & Broad E  (2020) Keep Me Walking - researching with people living with dementia and their carers - Podcast – Open University in collaboration with The Parks Trust](https://youtu.be/0QHAS88C-LU)

[Vseteckova J (2020)  Podcast - areas for research with The Open University](https://youtu.be/vE6J9J_ovOM)

[Broad E & Methley A & Vseteckova J (2021) Podcast OU & The Parks Trust & Northamptonshire Healthcare NHS Foundation Trust - Spotter sheet and mindful walking.](https://www.youtube.com/watch?v=dq5OXEBk3CA&feature=youtu.be)

[Broad E & Methley A & Vseteckova J (2021) Preventing brain decline while ageing](https://www.youtube.com/watch?v=965w7K8XPdo)

### OpenLearn Resources:

[Vseteckova J (2020) Ageing Well Public Talk Series](https://www.open.edu/openlearn/health-sports-psychology/health/the-ageing-well-public-talks)

[Vseteckova J (2019) 5 reasons why exercising outdoors is great for people who have dementia](https://www.open.edu/openlearn/health-sports-psychology/mental-health/5-reasons-why-exercising-outdoors-great-people-who-have-dementia)

 [Vseteckova J (2019) Depression, mood and exercise](https://www.open.edu/openlearn/health-sports-psychology/mental-health/depression-mood-and-exercise?in_menu=622279)

[Vseteckova J (2019) Five Pillars for Ageing Well](https://www.open.edu/openlearn/health-sports-psychology/mental-health/five-pillars-ageing-well)

[Vseteckova J (2020) Ageing Brain](https://www.open.edu/openlearn/health-sports-psychology/health/the-ageing-brain-use-it-or-lose-it)

[Vseteckova J (2020) Ageing Well Public Talks Series II. Plan for 2020 – 2021](https://www.open.edu/openlearn/health-sports-psychology/health/ageing-well-public-talk-series-plan-2020/2021)

[Vseteckova J (2020) Walking the Parks with The OU and The Parks Trust](https://www.open.edu/openlearn/health-sports-psychology/social-care-social-work/keep-me-walking-people-living-dementia-and-outdoor-environments)

[Vseteckova J, Borgstrom E, Whitehouse A, Kent A, Hart A (2021) Advance Care Planning (ACP ) - Discuss, Decide, Document and Share Advance Care Planning (ACP )](https://www.open.edu/openlearn/health-sports-psychology/health/advance-care-planning-acp-discuss-decide-document-and-share)

[Vseteckova J, Methley A, Lucassen M (2021) The benefits of mindfulness and five common myths surrounding it](https://www.open.edu/openlearn/health-sports-psychology/mental-health/the-benefits-mindfulness-and-five-common-myths-surrounding-it)

[Vseteckova J, Broad E, Andrew V (2021) The impact of walking and socialising through 5 Ways Café on people living with dementia and their carers: A volunteer’s perspective](https://www.open.edu/openlearn/health-sports-psychology/health/the-impact-walking-and-socialising-through-5-ways-cafe-on-people-living-dementia-and-their-carers)

[Vseteckova J, Methley A, Lucassen M (2021) The benefits of mindfulness and five common myths surrounding it](https://www.open.edu/openlearn/health-sports-psychology/mental-health/the-benefits-mindfulness-and-five-common-myths-surrounding-it)

[Methley A, Vseteckova J, Broad E (2021) Outdoor Therapy: The Benefits of Walking and Talking](https://www.open.edu/openlearn/health-sports-psychology/mental-health/outdoor-therapy-the-benefits-walking-and-talking)

[Vseteckova J, Methley a, Broad E (2021) What happens to our brain as we age and how we can stop the fast decline](https://www.open.edu/openlearn/health-sports-psychology/health/what-happens-our-brain-we-age-and-how-can-we-stop-the-decline)

[Methley A & Vseteckova J & Jones K (2020) Green & Blue & Outdoor spaces](https://www.open.edu/openlearn/health-sports-psychology/mental-health/the-benefits-outdoor-green-and-blue-spaces)

### COVID-19 related

[Vseteckova J, How to age well, while self-isolating (2020)](https://www.open.edu/openlearn/health-sports-psychology/how-age-well-while-self-isolating)

[Vseteckova J, (2020) SHORT FILM - Ageing Well in Self-Isolation](https://youtu.be/LU4pXFgcGos)

[Vseteckova J, (2020) ANIMATION - Keeping healthy in Self-Isolation](https://youtu.be/M9yUC-MUugA)

[Vseteckova J et al (2020) COVID-19 The effects of self-isolation and lack of physical activity on carers](https://www.open.edu/openlearn/health-sports-psychology/social-care-social-work/the-effects-self-isolation-and-lack-physical-activity-on-carers)

 [Taverner P, Larkin M, Vseteckova J, et al.  (2020) Supporting adult carers during COVID-19 pandemic](https://www.open.edu/openlearn/health-sports-psychology/social-care-social-work/how-can-adult-carers-get-the-best-support-during-covid-19-pandemic-and-beyond)

[Robb M, Penson M, Vseteckova J, et al.  (2020) Young carers, COVID-19 and physical activity](https://www.open.edu/openlearn/health-sports-psychology/social-care-social-work/young-carerscovid-19-and-physical-activity)

[Penson M, Vseteckova J et al. (2020) Older Carers, COVID-19 and Physical Activity](https://www.open.edu/openlearn/health-sports-psychology/social-care-social-work/older-carers-covid-19-and-physical-activity)

[Vseteckova J  & Methley A  (2020) Acceptance Commitment Therapy (ACT) to help carers in challenging COVID-19 times](https://www.open.edu/openlearn/health-sports-psychology/health/how-can-acceptance-and-commitment-therapy-help-carers-challenging-times-such-the-covid-19-pandemic)

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[‘*Ageing Well Public Talks*’ Series 2020/2021 repository on ORDO Collections](https://ordo.open.ac.uk/collections/Ageing_Well_Public_Talks_2020-21/5122166)

[‘*Ageing Well Public Talks*’ Series 2019/2020 repository on ORDO Collections](https://doi.org/10.21954/ou.rd.c.4716437.v1)

[OpenLearnCreate Course on ‘*Ageing Well’ 2019/2020*](https://www.open.edu/openlearncreate/course/view.php?id=5016)

[Home exercise no equipment – no problem (](https://selsdotlife.wordpress.com/2020/04/01/home-exercises-for-older-adults-no-equipment-no-problem/)*[Blog](https://selsdotlife.wordpress.com/2020/04/01/home-exercises-for-older-adults-no-equipment-no-problem/)*[)](https://selsdotlife.wordpress.com/2020/04/01/home-exercises-for-older-adults-no-equipment-no-problem/)