HFMA, SDN & ONF
Eastern Branch
annual conference
'Strength behind the
numbers' 22 Feb 2023

Health Wellbeing the science

Dr William Bird
GP CEO Intelligent Health
Chair Active Essex
MRCGP MBE



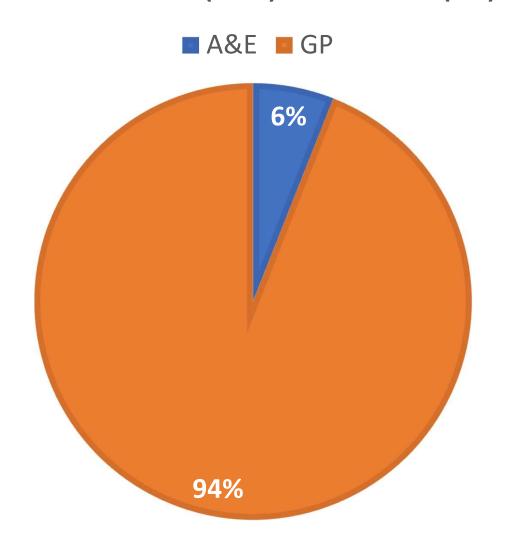
There were 2.1 million A&E attendances in England in Nov 2022

- How many GP consultations were there in the same month?
- 1 million
- 2 million
- 5 million
- 10 million
- 30 million



There were 33 Million GP consultations in Nov 2022

ATTENDANCE NOV 2022
2.1 MILLION (A&E) 33 MILLION (GP)







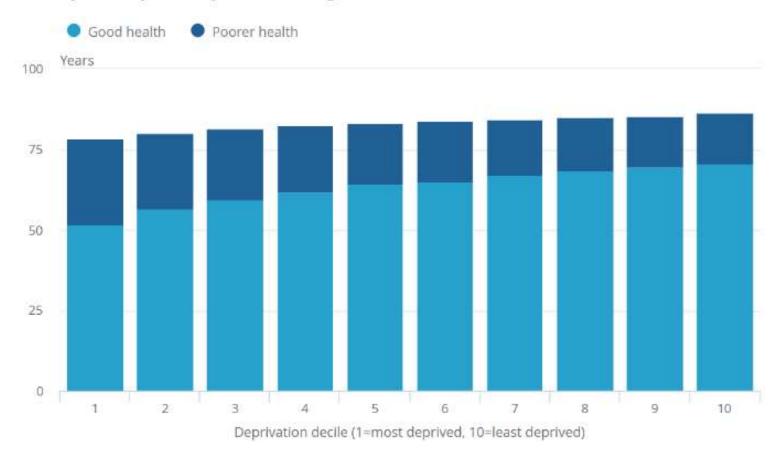
What We Spend On Being Healthy



We are generating years of poor health

Figure 4: Females living in the most deprived areas were expected to live less than two-thirds of their lives in good general health

Healthy life expectancy at birth, England, 2018 to 2020





What is the basis of Health

People



Place



Purpose



Belong

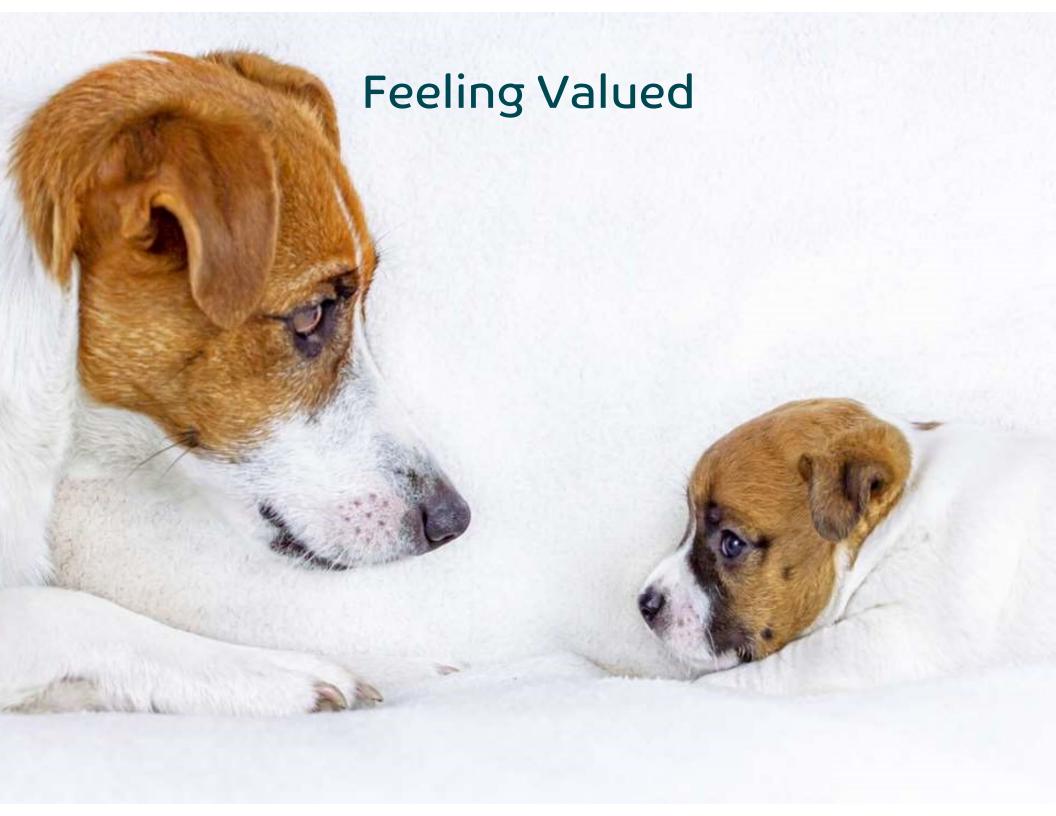


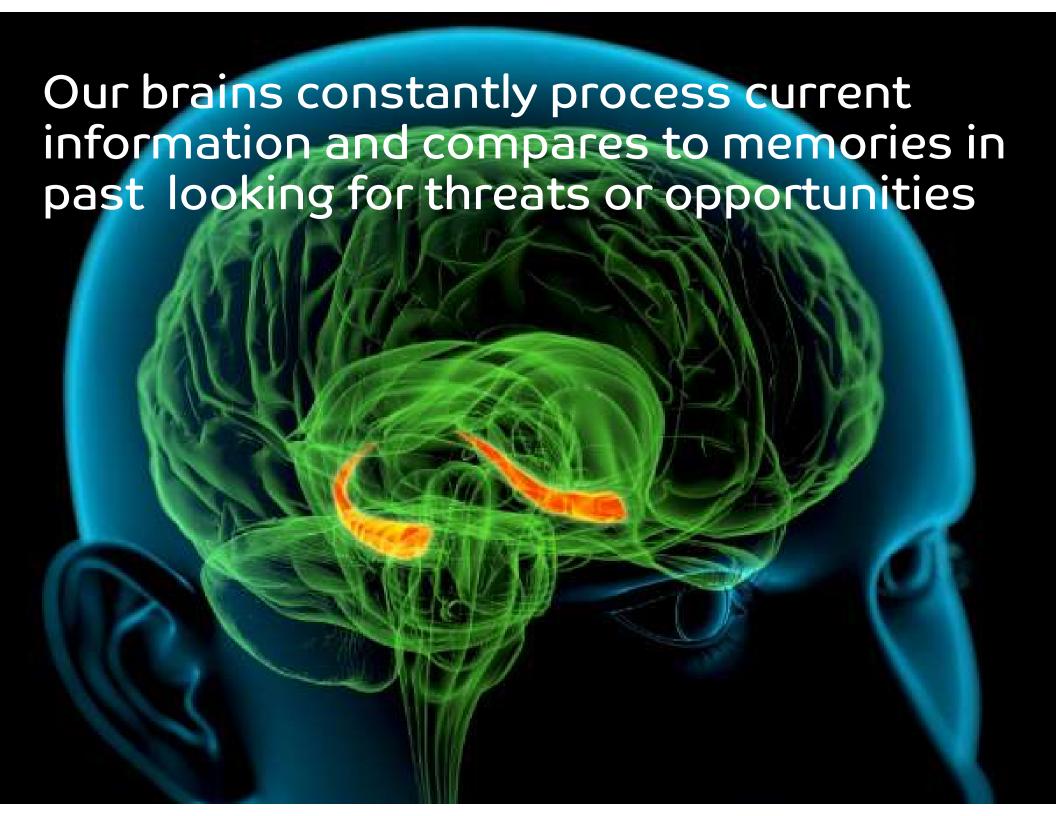
Valued

This is the lived experience















Resilience







Positive emotions

Good sleep

Active lifestyle

Healthy diet

Positive lifestyles









Poor resilience







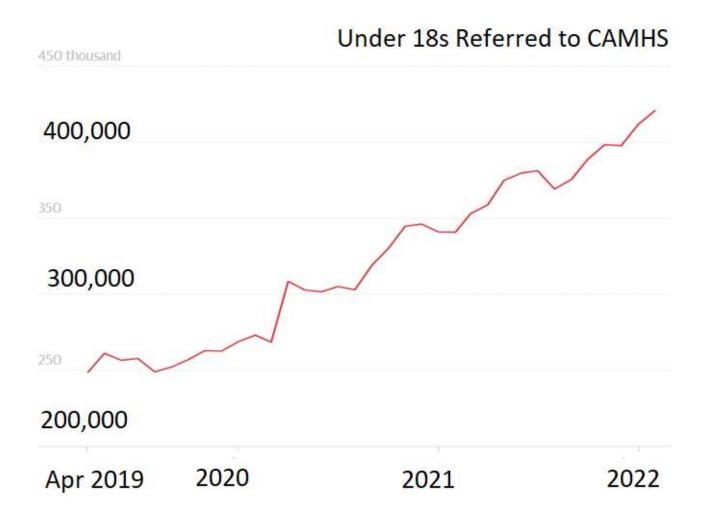
Chronic stress

Anxiety
Depression
Fear
Anger
Sadness

Stress hormones

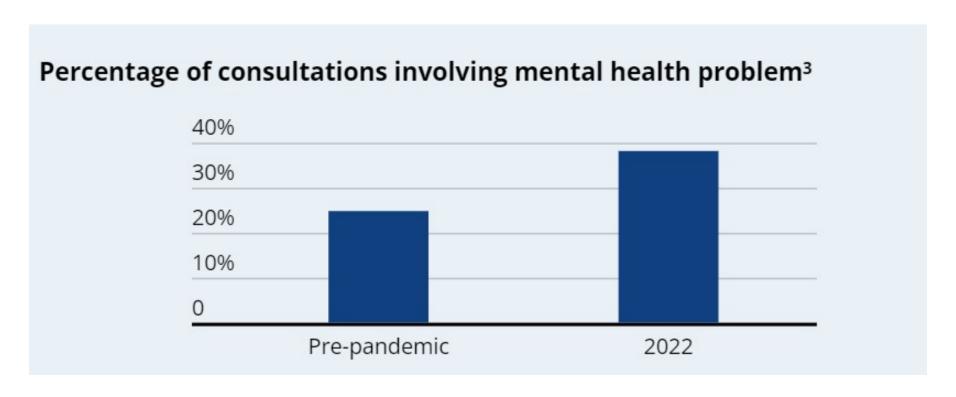


The rise of poor Mental Health in children





GP Consultations (Pulse Survey May 2022)



GPs see approximately 1 million patients a day









Poor resilience







Chronic stress

Anxiety
Depression
Fear
Anger
Sadness

Stress hormones

Poorsleep

Inactivity

Poor diet

Addictions

Visceral fat, unhealthy gut biome

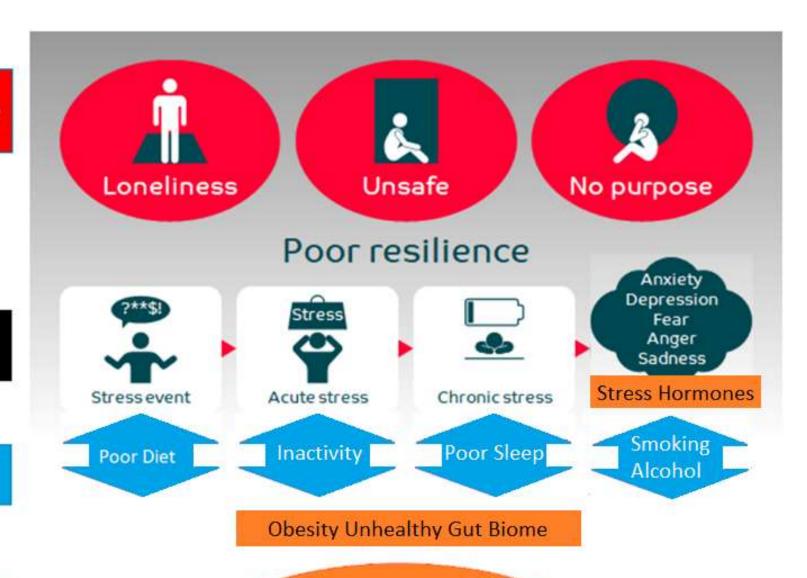


Resilience

Emotions

Actions

Physiology



Chronic Inflammation Telomere Shortening Oxidative Stress

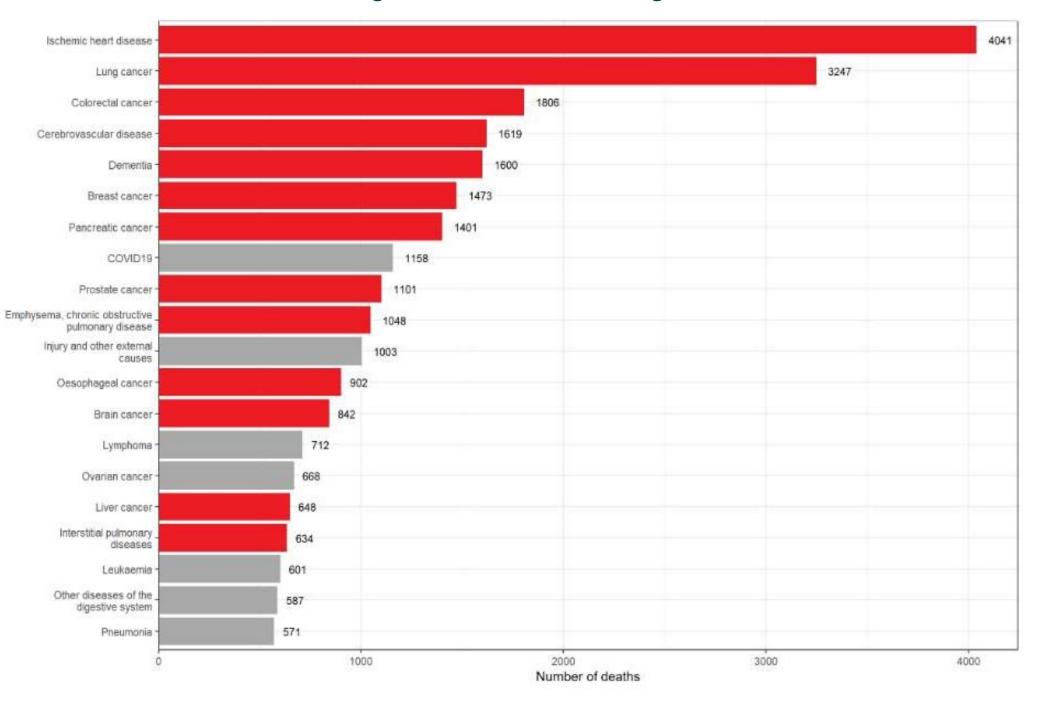


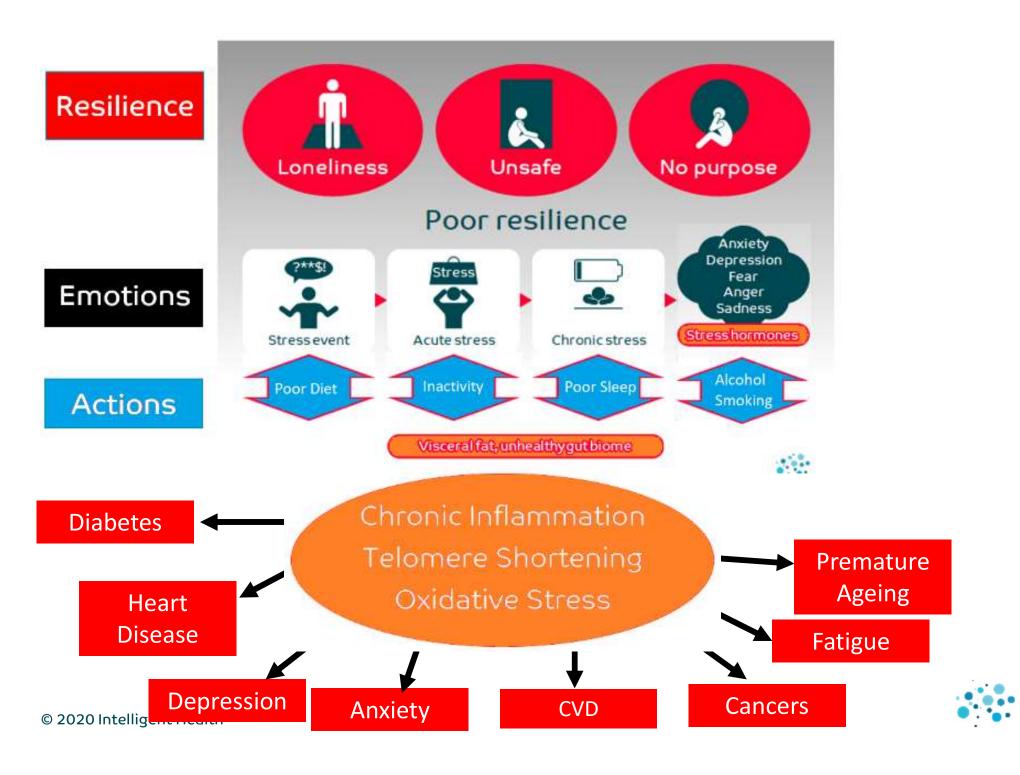
Many diseases have an inflammatory origin

- Diabetes
- Heart disease
- Depression
- Anxiety
- Dementia
- Arthritis

- Frailty
- Most cancers
- Parkinson's disease
- Bowel disease
- Osteoporosis
- COPD

Deaths caused by inflammatory diseases (Red)





The deep blue are more core attributes that have big impact. Public services have more influence on the Green areas

	Purpose	People	Place
Safe	Meaning	Love	Refuge
	Belief	Relationships	Secure
Valued	Autonomy	Friends	Wonder
	Worth	Family	Respect
Belong © 2020 III telligent mealtin	Cause	Community	Home
	Team	Tribe	Attachment

	Purpose	People	Place
Safe	Meaning	Love	Refuge
	Belief	Relationships	Secure
Valued	Autonomy	Friends	Wonder
	Worth	Family	Respect
Belong	Cause	Community	Home
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Safe/Purpose: Meaning, Belief and Hope

- Meaning is a main factor in common with the Blue Zones adding up to seven years of extra life expectancy.
- Meaning is made up of three principles

Coherence, Purpose & Significance.



"Meaning comes from serving a cause bigger than ourselves"



Blue Zones





EXPERIENCE

BLUE ZONES PROJECT

START CREATING A HEALTHIER, HAPPIER LIFE, TODAY.





PLANT SLANT

t less meat & more

WINE @ FIVE plants on your plate. Enjoy a glass of hine with good friends each day.



FAMILY FIRST Invest time with family & add up to 6 years to your

life.

80% RULE Eat mindfully & stop when 80% full.



MOVE NATURALLY Find ways to move more! You'll burn calorie, without thinking

about it.

RIGHTTRIBE Surround yourself with people who support positive behaviors.



works for you.

PURPOSE

your life.

Wake up with

purpose each day to

add up to 7 years to

POWER 9°

Live longer by applying these principles from the people who have lived longest!

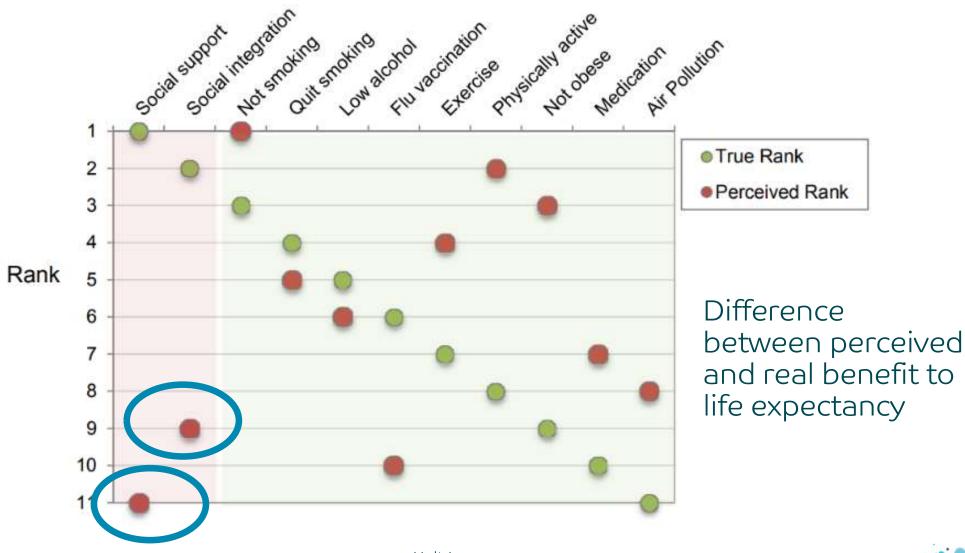


to a faithpased community, & attend services 4 times a month to add 4-14 years to your lifespan

	Purpose	People	Place
Safe	Meaning	Love	Refuge
	Belief	Relationships	Secure
Valued	Autonomy	Friends	Wonder
	Worth	Family	Respect
Belong	Cause	Community	Home
	Team	Tribe	Attachment



4. Prioritise relationships and friends





Safe/People: Intimacy

- The intimate connection to another person particularly parent child is a key factor for resilience
- Loneliness has a greater risk of early mortality than any other risk factor including smoking
- Social isolation activates the same area of the brain as physical pain.





	Purpose	People	Place
Safe	Meaning	Love	Refuge
	Belief	Relationships	Secure
Valued	Autonomy	Friends	Wonder
	Worth	Family	Respect
Belong	Cause	Community	Home
	Team	Tribe	Attachment



Valued/Purpose: Autonomy and self worth

- Autonomy is about having agency and mastery of our lives
- Achieving and accomplishment leading to self-worth
- Facing and understanding our emotions
- Valuing our body: (Physical activity, diet, sleep, appearance, skills and challenges)
- Listening and understanding



	Purpose	People	Place
Safe	Meaning	Love	Refuge
	Belief	Relationships	Secure
Valued	Autonomy	Friends	Wonder
	Worth	Family	Respect
Belong	Cause	Community	Home
	Team	Tribe	Attachment



Safe/Place: Refuge

- Home is the most important safe place. We should feel secure to be ourselves, think and reflect.
- For neighbourhood its feeling safe in public spaces and outdoors.
- For work it is feeling psychologically safe.





	Purpose	People	Place
Safe	Meaning	Love	Refuge
	Belief	Relationships	Secure
Valued	Autonomy	Friends	Wonder
	Worth	Family	Respect
Belong	Cause	Community	Home
	Team	Tribe	Attachment



Valued/People: Friends and Family

- Friends and wider family are those who you can turn to if in trouble.
- We have "mirror neurons" that copy others actions and feels others pain. Basis of Empathy.
- Volunteering and giving to those in greater need creates greater resilience for the giver than the receiver





	Purpose	People	Place
Safe	Meaning	Love	Refuge
	Belief	Relationships	Secure
Valued	Autonomy	Friends	Wonder
	Worth	Family	Peace
Belong	Cause	Community	Home
	Team	Tribe	Attachment



Belong/Purpose: Cause, Team

- Belonging to a group with a similar cause is part of purpose and therapies are based on this (self help groups). Examples are:
- Community groups such as sports team, choir, band etc
- Volunteering
- A social movement (politics, environmental injustice)
- Faith based



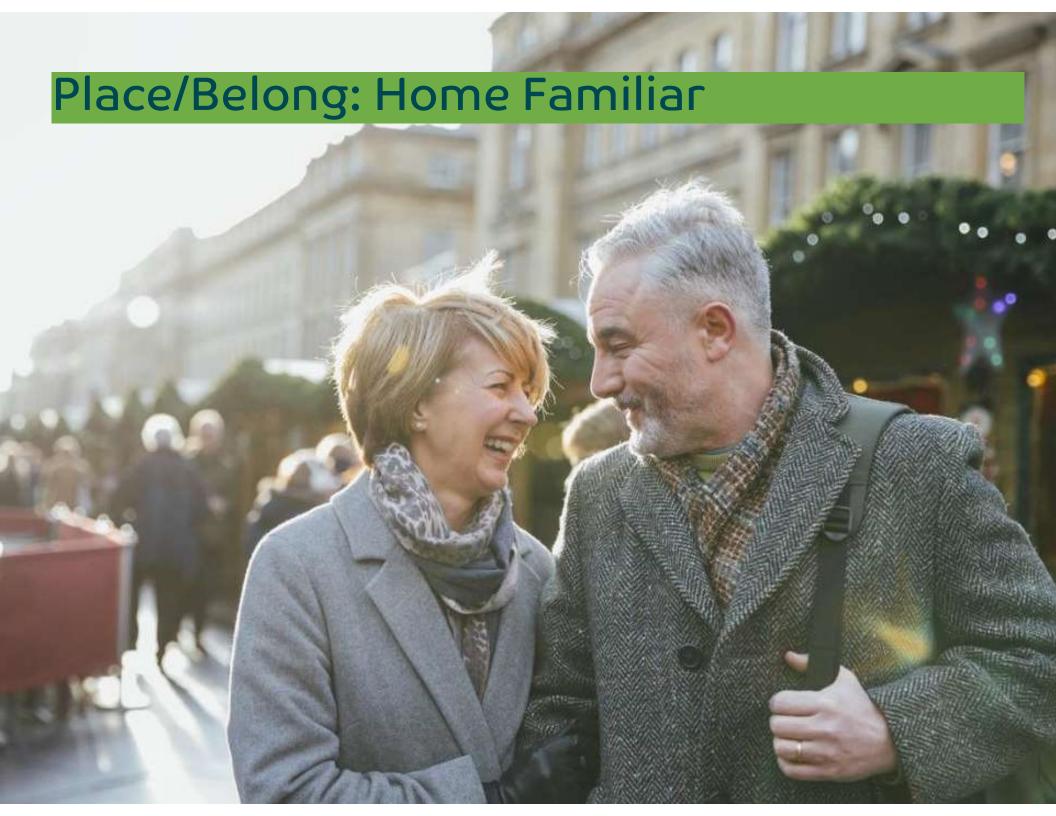
	Purpose	People	Place
Safe	Meaning	Love	Refuge
	Belief	Relationships	Secure
Valued	Autonomy	Friends	Wonder
	Worth	Family	Respect
Belong	Cause	Community	Home
	Team	Tribe	Familiar



Valued/Place: Wonder Respect







10 ways to increase your resilience

Find your meaning

Face negative motions

Be more optimistic and generous

Prioritise relationships and friends

Keep moving

Be in nature

Keep learning and doing

Where is your safe place?

Push yourself a bit more

Enjoy the present (Mindfulness)







Poor resilience







Chronic stress

Anxiety
Depression
Fear
Anger
Sadness

Stress hormones

Poorsleep

Inactivity

Poor diet

Addictions

Visceral fat, unhealthy gut biome



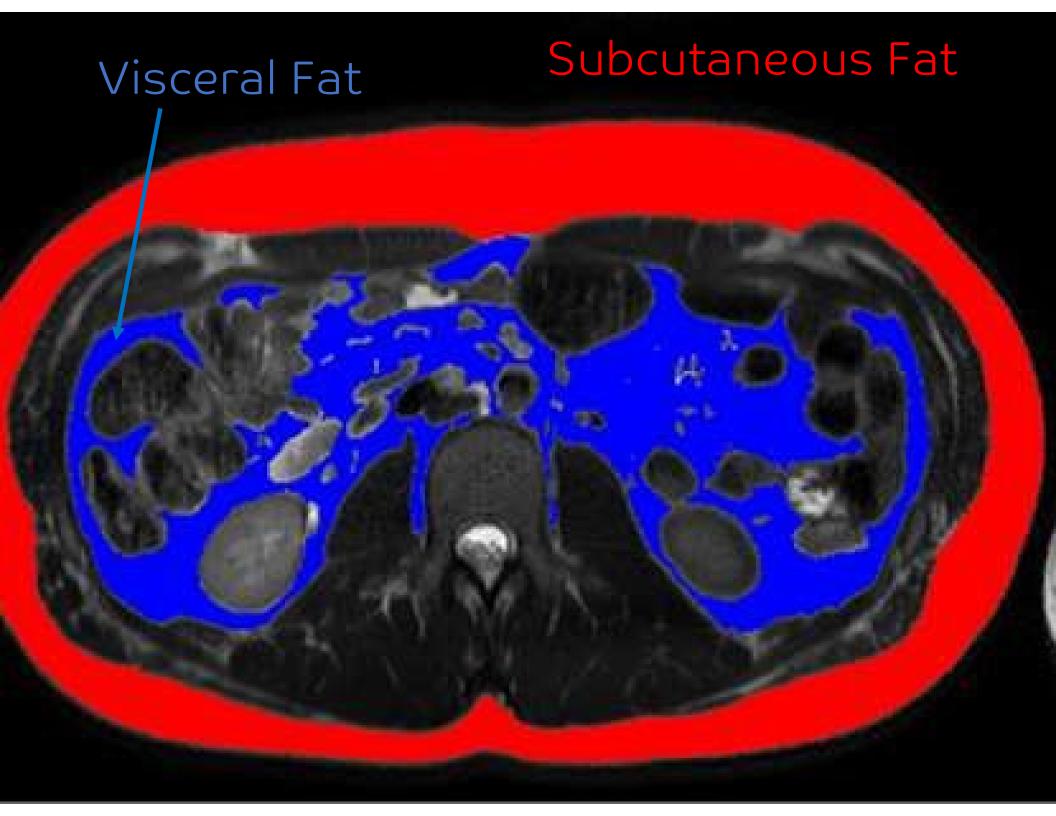
Being active reduces inflammation by...

1. Reducing visceral fat

2. Increasing anti-inflammatories

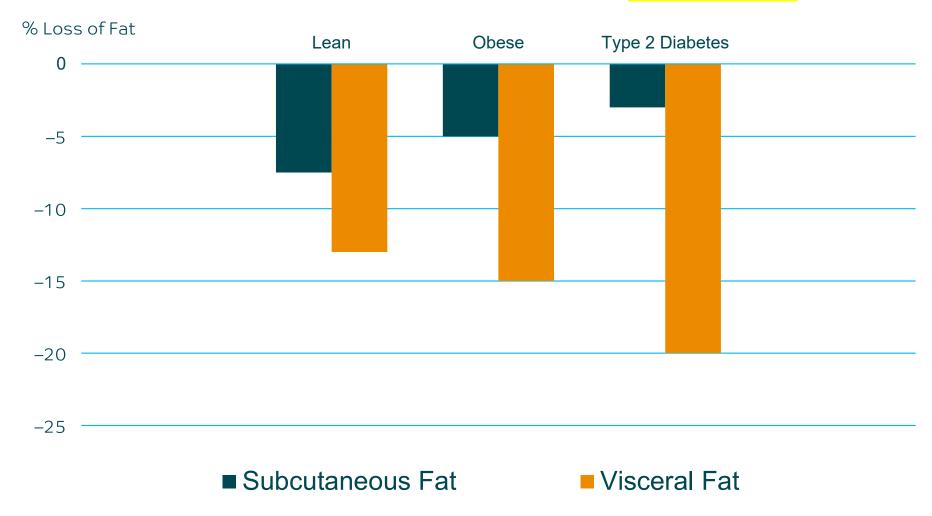
3. Improving Mitochondria function





Visceral fat reduction with exercise

Fat loss after 13 weeks of walking 60 mins a day and no weight loss





Being active reduces inflammation

1. Decreases visceral fat

2. Increases anti-inflammatories

3. Preserves healthy cells



Reducing inflammation – muscles

Contracting
muscles
release powerful
anti-inflammatories
called Myokines

These
Myokines
Circulate
around the
whole body
calming every
cell

Being active reduces inflammation by...

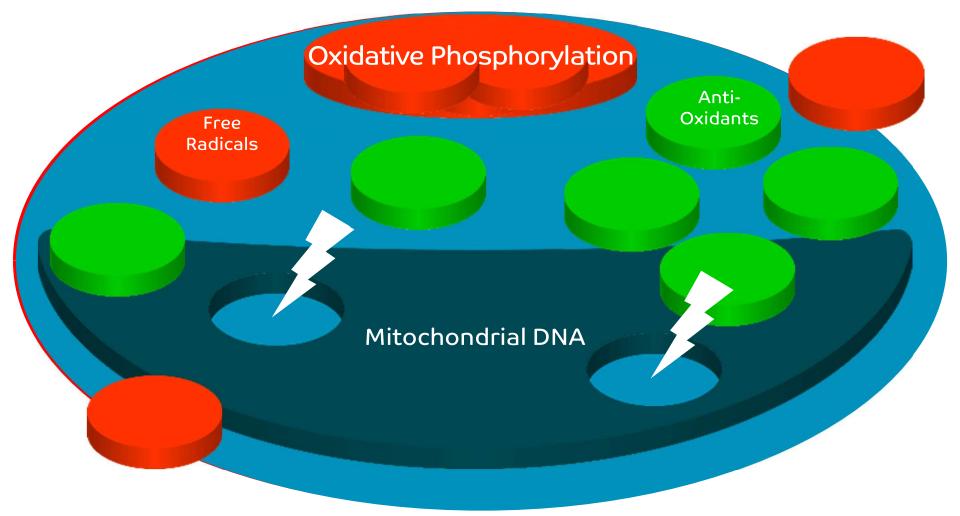
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3. Preserves healthy cells



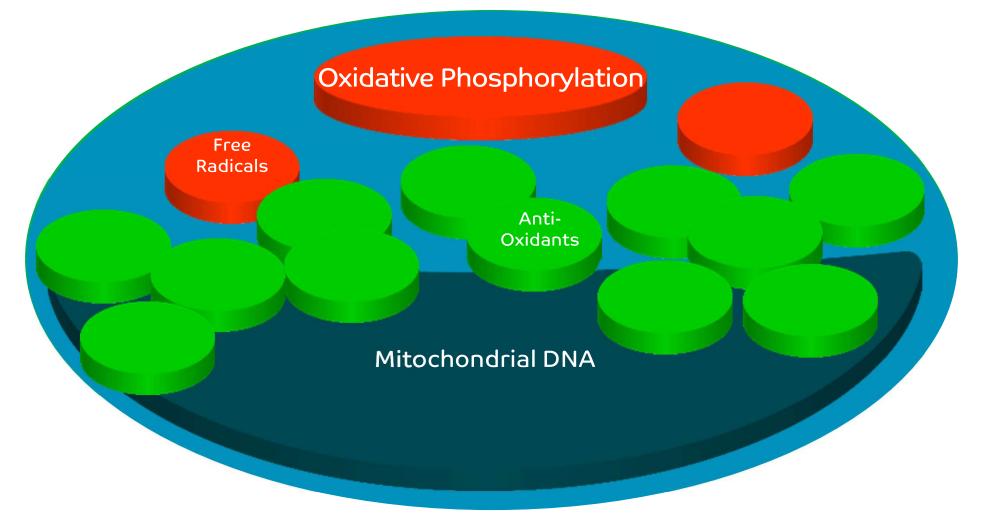
Being inactive charges up the mitochondria that then leaks free radicals



Mitochondria



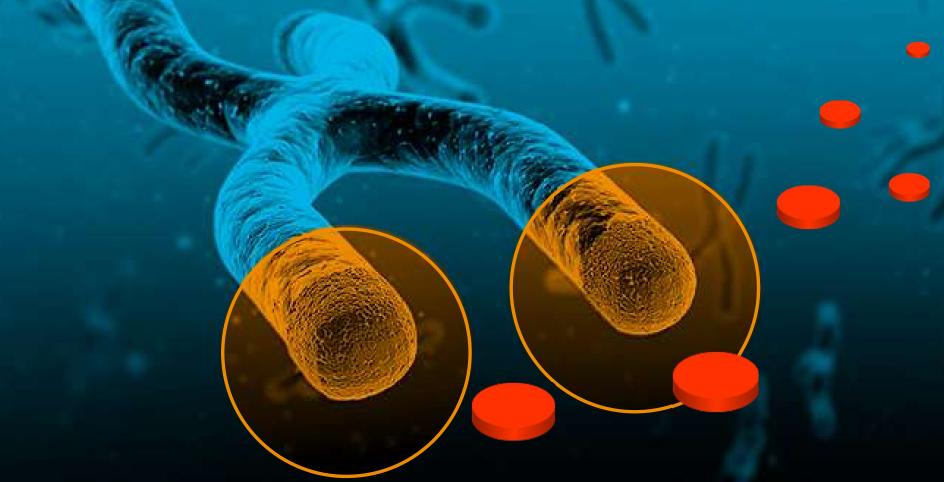
Being active reduces the potential difference so few free radicals are released



Mitochondria



Free Radicals leak out of the mitochondria and shortens the telomeres



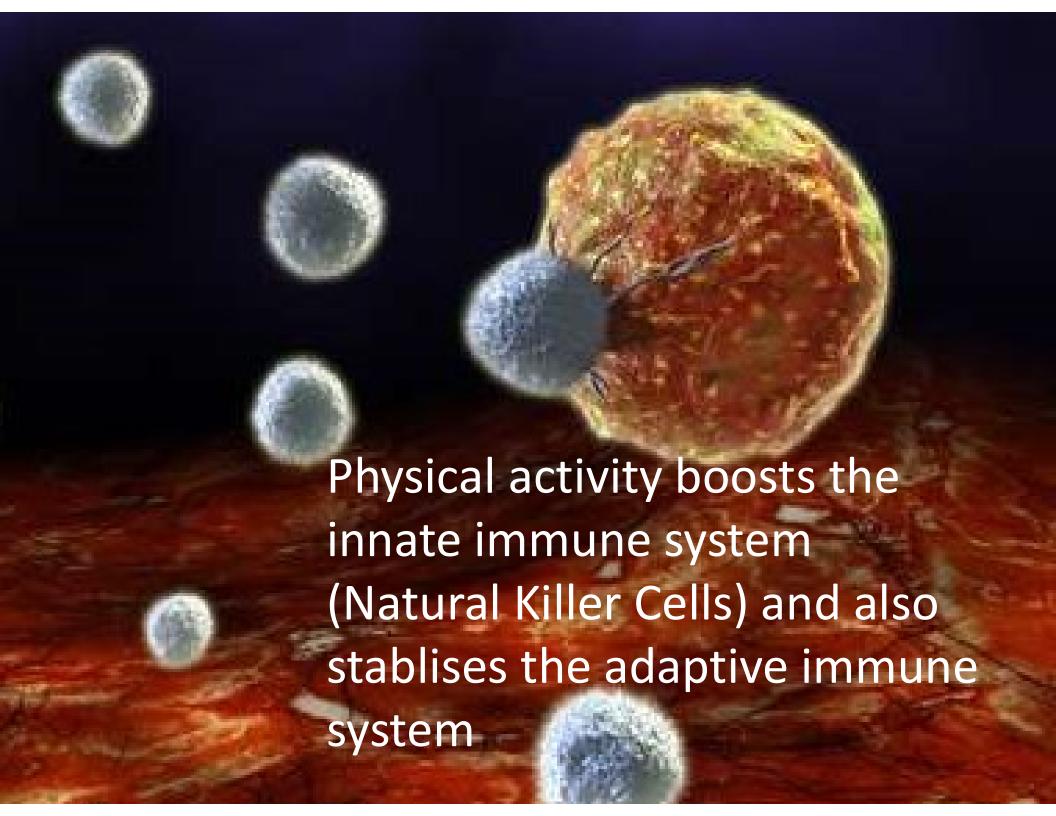
Venturelli, M., Morgan, G.R., Donato, A.J., Reese, V., Bottura, R., Tarperi, C., Milanese, C., Schena, F., Reggiani, C., Naro, F. and Cawthon, R.M., 2014. Cellular aging of skeletal muscle: telomeric and free radical evidence that physical inactivity is responsible and not age. *Clinical science*, 127(6), pp.415-421.

Physical Activity reduces the risk of developing depression, treats it and prevents relapse in adults and children

This is due to ...

- 1) Increasing BDNF
- 2) Anti-inflammatory
- 3) Reduces impact of stress hormones
- 4) Increases resilience (Self Esteem)

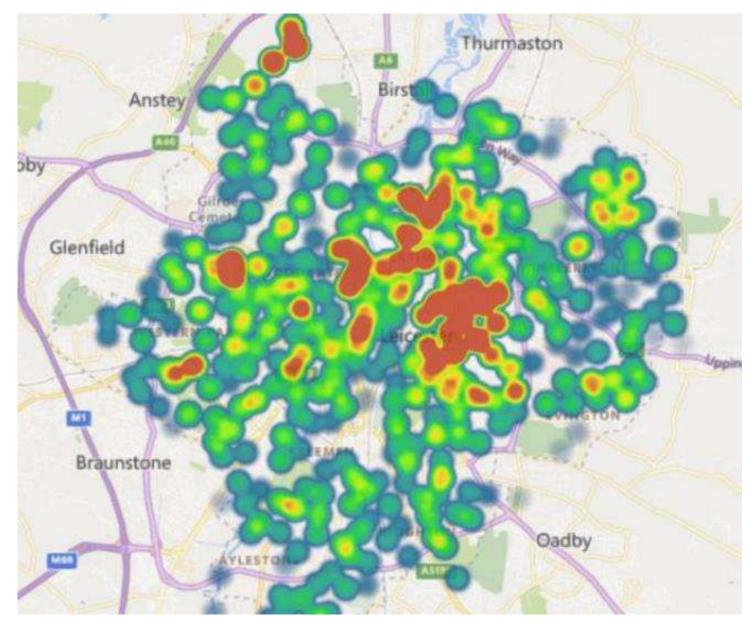
Phillips, C., 2017. Brain-derived neurotrophic factor, depression, and physical activity: making the neuroplastic connection. *Neural plasticity*, 2017.







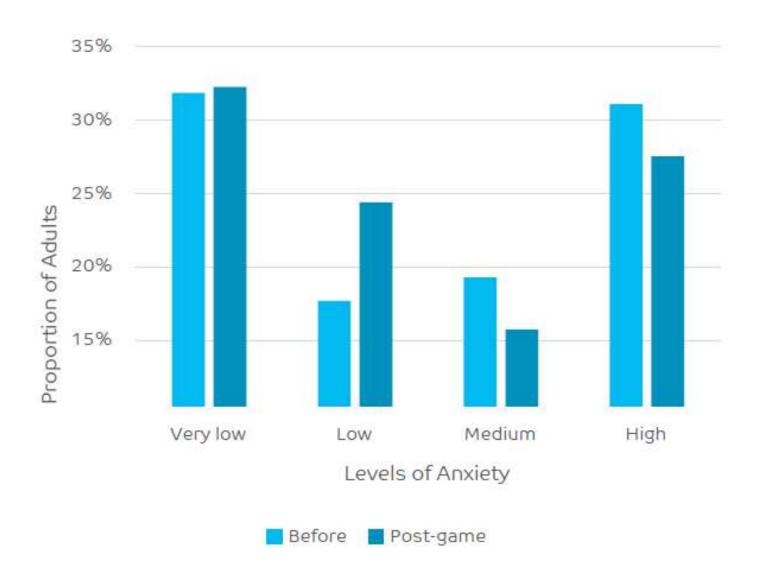
Leicester Beat the Street







Beat the Street Wolverhampton Anxiety





Funds are the wrong way round.

- Resilience is about feeling safe, belonging and feeling valued.
- Most Disease comes from chronic stress and defensive lifestyles and emotions.
- Health resides in early years, safe green space, community groups and buildings, volunteering, training, education, family support and good transport. Invest here first.
- Then lifestyle interventions
- Then primary and social care
- Then secondary care!





