



#### Look to cover

**AIM:** To understand why increasing physical activity is important in preventing and treating cancer

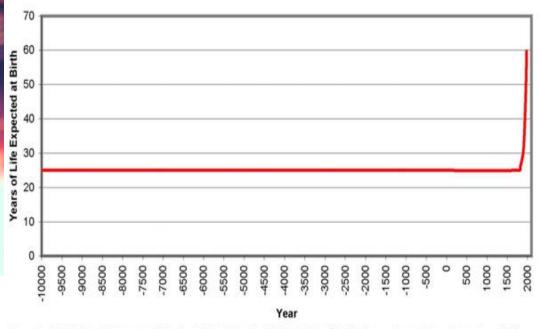
- 1. A bit about physical activity
- 2. Physical activity before, during and after cancer treatment
- 3. Working together to increase physical activity and prevent cancer
- 4. Examples from primary care



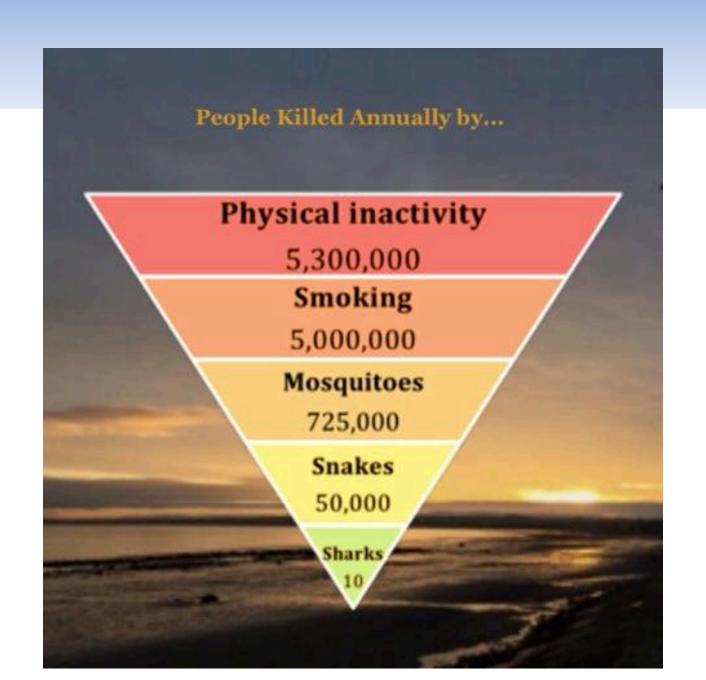
#### Improvement and game changers

## -10,000 BCE - 2003





Source: Indur M. Goklany. 'The Improving State of our World.' Washington, DC. Cato Institute, 2007. 36. Life expectancy is believed to have been 20-30 years prior to 1820. Age 25 is selected as an average.



# Risk reduction associated with physical activity

<b>Chronic condition</b>	Risk reduction
All cause mortality	30% risk reduction
CVD, stroke	20-35% reduction
Diabetes	30-40% reduction
Hip fractures	36-68% reduction
Colon cancer	30% reduction
Breast cancer	20% reduction
Loss of function	30% reduction
Depression/dementia	20-30% reduction



### **Primary prevention**

Evidence of reduced risk from physical activity		
Convincing	Colon- 30% Breast- 20%	
Probable	Endometrium	
Limited but suggestive	Lung Pancreas Breast (pre-menopausal)	

Conclusions of World Cancer Research Fund (WCRF) expert report (2007) and continuous update project (CUP)



## Physical activity and survival

Emerging evidence of physical activity post-diagnosis as an independent predictor of survival time/disease progression

Cancer	Studies	Risk reduction
Breast	4	>20% cancer mortality/progression
Colorectal	6	>30% cancer mortality/progression
Prostate	2	>50% cancer mortality/progression
Lung	1	>30% total mortality
Brain	1	>30% total mortality



## Promote physical activity at every stage of cancer care

**Pre-diagnosis** (prevention)

**Pre-treatment** (prehabilitation)

**Treatment** (symptom control)

Survivorship

(health promotion)

End of life (palliation)

**Post-treatment** (rehabilitation)

Promote physical activity throughout cancer care pathway



## Physical activity during treatment

Aimed at maintaining functional abilities and well-being

- Aerobic and muscular fitness preserved or slightly increased
- Body composition improved (via fat loss)
- Well-being and quality of life enhanced
- Fatigue controlled or slightly reduced



## Physical activity in palliative care

Majority of patients surveyed are interested in physical activity

Some benefits demonstrated from intervention trials

- •Slowed decline in quality of life
- Preserved functional outcomes (walking ability, muscular strength)
- Less severe symptoms (dyspnoea, appetite loss)



## Physical activity guidelines

- Exercise is safe both during and after most cancer treatments
- Patients are advised to avoid inactivity and return to normal daily activities as soon as possible after surgery, and during adjuvant cancer treatments
- The standard age appropriate guidelines are also appropriate for cancer patients

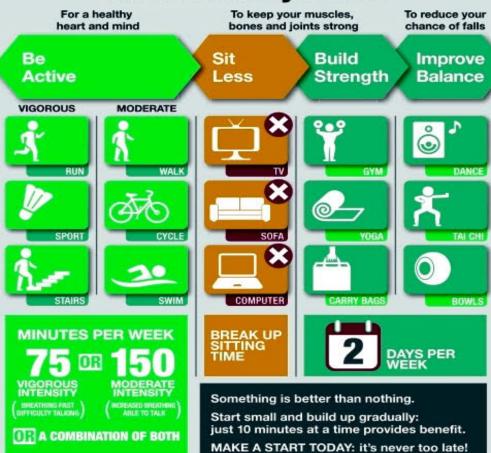


## Physical activity benefits for adults and older adults



EOF	Type II Diabetes	-40%
HANG	Cardiovascular Disease	-35%
OURC	Falls, Depression and Demen	tia -30%
CES Y	Joint and Back Pain	-25%
REDO	Cancers (Colon and Breast)	-20%

#### What should you do?



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## Health care professional responsibilities: if you have only 60 seconds

**ASK** 

about current physical activity levels and if they are aware of the benefits of moving more

**ADVISE** 

of the benefits of physical activity to people living with and beyond cancer

**ACT** 

signpost on for more help and support



## Health care professional responsibilities: if you have 5 minutes

**ASK** 

about your patients' physical activity

**ASSESS** 

their readiness for physical activity

**ADVISE** 

on appropriate options

**ASSIST** 

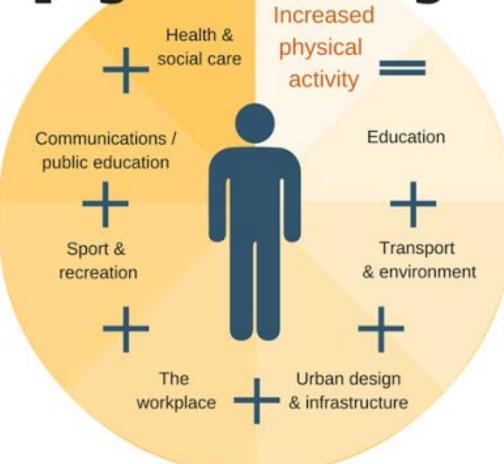
with resources and opportunities

**ARRANGE** 

follow-ups



# How do we increase physical activity?



## **Summary**

- Physical activity can reduce the risk of many cancers
- Physical activity is important at each stage of the cancer care pathway
- Potential benefits include symptom control, functional abilities, fatigue, quality of life, survival time, and long-term health
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# Engaging patients with physical activity: a General Practice perspective

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#### General Practice: an ideal setting

- Huge number of patient contacts
  - 16m GP consultations in Scotland 2012/13
  - 24m GP and PN Consultations
- Opportunistic health promotion
- Continuity of care
- Patients of all ages and stages



#### Being ready to engage patients

 Developing a culture of physical activity within the practice

Practitioners and practice staff physical active

Awareness and knowledge of physical activity benefits



#### Being ready to engage patients

Developing a culture of physical activity within the practice

- Increasing activity in day to day work
  - Standing desks for duty doctor and reception MacKenzie Health Centre
  - Cycling or walking to house visits
- Practice based events:
  - Summerside Medical Practice: Moonwalk
  - Craiglockhart: Marathon relay, walking gro
- Protected learning time





#### Being ready to

#### Awareness and

Huge amou

- Community
  - Knowledg
  - •Local initia
- Tailoring to
  - Socioecon
  - Ethnicity

Resource	Description
Motivate to Move <sup>i</sup>	Educational package for GPs providing comprehensive and up to date information on physical activity benefits with tools for motivating patients.
Physical Activity for Health Alliance <sup>ii</sup>	Scottish network for providing information and connections for those promoting physical activity. Great resources section.
Physical activity infographiciii	Infographic from CMO Scotland (September 2015)  A4 sheet – could be used as patient information sheet.
23 and ½ hours <sup>iv</sup> Make your day harder <sup>v</sup>	Excellent animated visual lectures from Dr Mike Evans explaining the evidenced based medicine behind physical activity and encouraging change
NHS Health Scotland  Every Step Counts <sup>vi</sup> Get active vii  Brief Intervention viii	6 videos explaining the Scottish physical activity pathway. A PIL explaining the need to know information about physical activity. Together with the SCOT-PASQ provides brief advice and PIL.
BHF National Centre <sup>ix</sup>	Wide ranging information sheets available. Includes guidance for different age groups from pre-school to elderly also specific cases (e.g. children with asthma)
<u>Fit for health</u> <sup>x</sup>	Referral information for Edinburgh Leisure's 12 week fitness program for adults with CVS, Respiratory conditions or diabetes.
By Activity Activity Finder Active Scotland*i	Find physical activity opportunities locally.
Walking Walk for life <sup>xii</sup> Paths for all <sup>xiii</sup>	Encourages walking: particularly finding a local walk, or people to walk with.  Promotes walking in Scotland, lists walking groups.
Cycling Sustrans <sup>xiv</sup>	Cycling charity aiming to encourage cycling for leisure and travel.
By Patient Group Women	
Pregnancy_D&Gxv	Dumfries and Galloway have published recommendations for physical activity during pregnancy for professionals and patients. (2015)
This girl can <sup>xvi</sup>	Lottery funded initiative inspiring women of any age to exercise (to signpost to)
Cardiology British Heart Foundation <sup>wii</sup>	Produce patient information booklets on physical activity for those with heart disease and hypertension.
Oncology	

Inspiring information packs for patients and evidence based reviews for GPs.

#### benefits able – ? overwhelming

25

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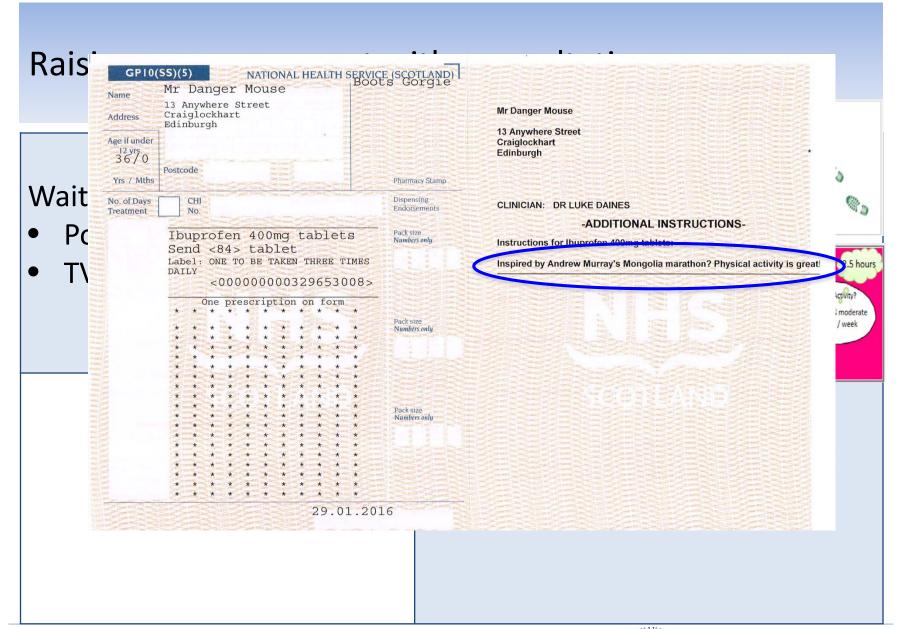


Waiting room	Website
Leaflet	Prescription

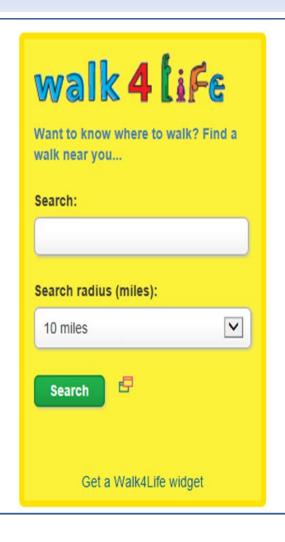


Waiting room	Website
<ul> <li>Leaflet</li> <li>To take away from consultations</li> <li>Send out with invitations to attend chronic disease review.</li> </ul>	Prescription









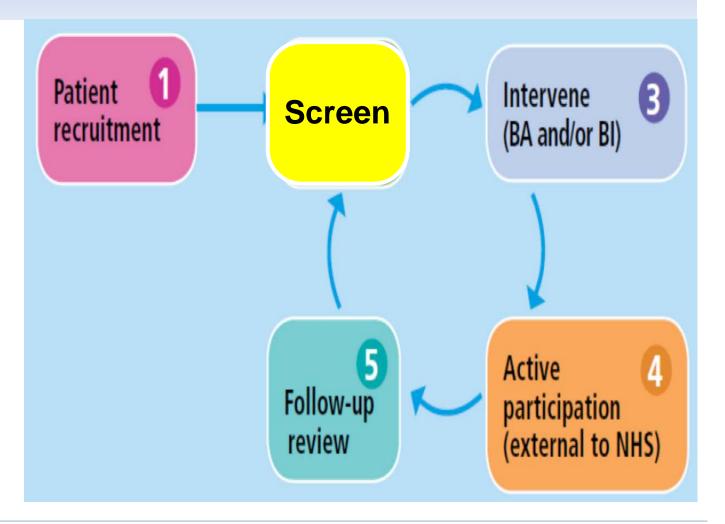
#### Website

- Activity for health page
  - List information about local services
  - Links to other websites.

Add a widget – walk for life

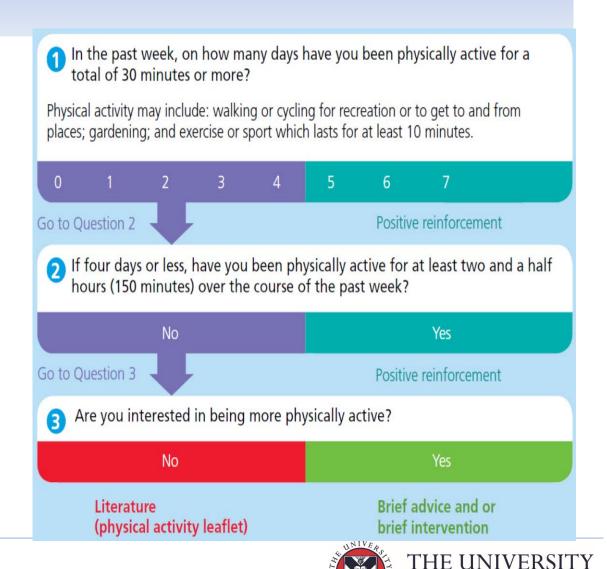


Scottish physical activity pathway



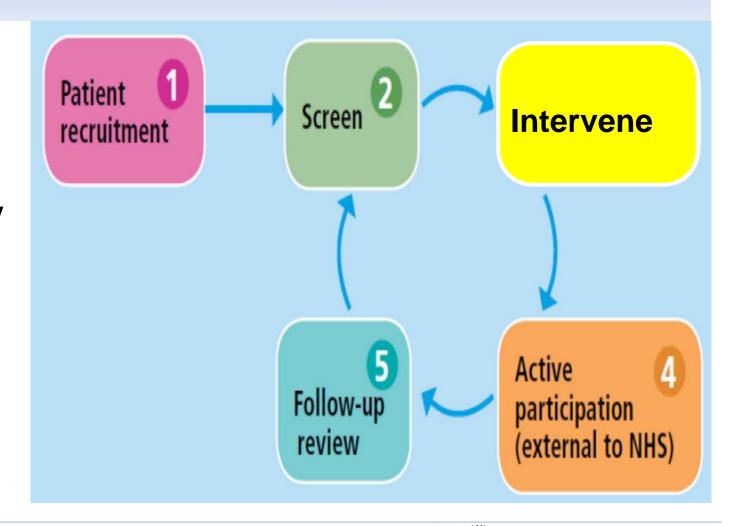


Scottish
Physical
Activity
Screening
Questionnaire
(SCOTPASQ)



of EDINBURGH

Scottish physical activity pathway



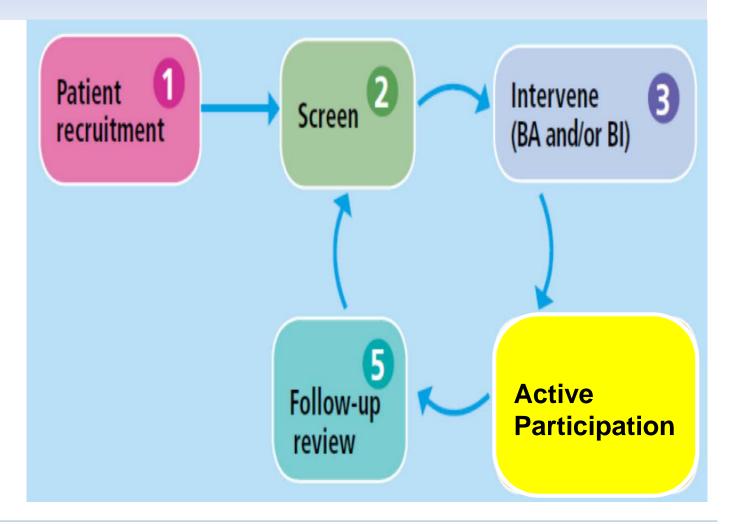


#### Within the consultation

Brief advice	Brief intervention	Motivational interviewing
Informal Raise awareness	More structured Seek to provide more formal help	"Change talk" patients hear themselves speaking about change; their motivation improves.
More directive, Expert advice-led approach		Guiding style Pace dictated by patient's readiness to change



Scottish physical activity pathway





## **Active Participation**

Choosing the right activity:

LLocalEEnjoyableAAndPPractical



#### Summary

Benefits of physical activity are compelling

Develop physical activity culture within workplace

Be innovative in raising awareness

Use Scottish Physical Activity pathway



