#### Physical Activity for Health Research Centre (PAHRC)

#### MAKING THE CASE 2022

# Messaging and communication to promote active and sustainable travel

**Dr Paul Kelly** 

Physical Activity for Health Research Centre (PAHRC)
University of Edinburgh
Feb 2022



# Physical Activity for Health Research Centre (PAHRC)

#### **Key Research Themes**

- 1. The promotion of walking & cycling
- 2. The investigation of sedentary behaviour
- 3. Physical activity amongst key 'at risk' groups
- 4. Measurement & Surveillance
- 5. Communication of key messages
- 6. Evaluation



**Prof Nanette Mutrie MBE** 





@narrowboat paul

# RESEARCH INTERESTS — PHYSICAL ACTIVITY EPIDEMIOLOGY

Health benefits of physical activity (especially walking and cycling)

Measurement of walking and cycling

Messaging and communication

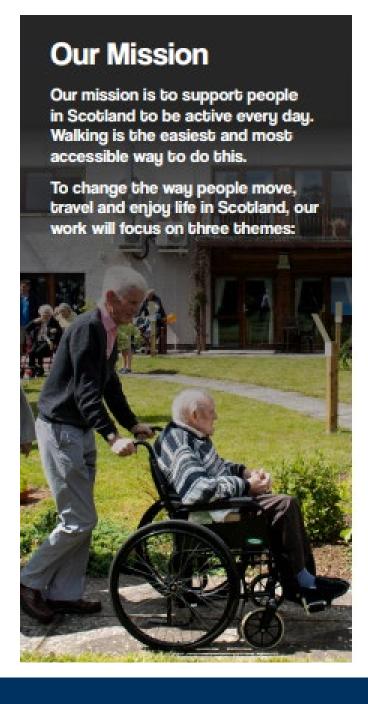
Evaluation of interventions and policy



FOR A HAPPIER, HEALTHIER SCOTLAND



https://www.pathsforall.org.uk/



Walking is for everyone.

Walking is for everywhere.

Walking is for every day.



https://www.pathsforall.org.uk/mediaL ibrary/other/english/paths-for-allstrategy-2022-.pdf



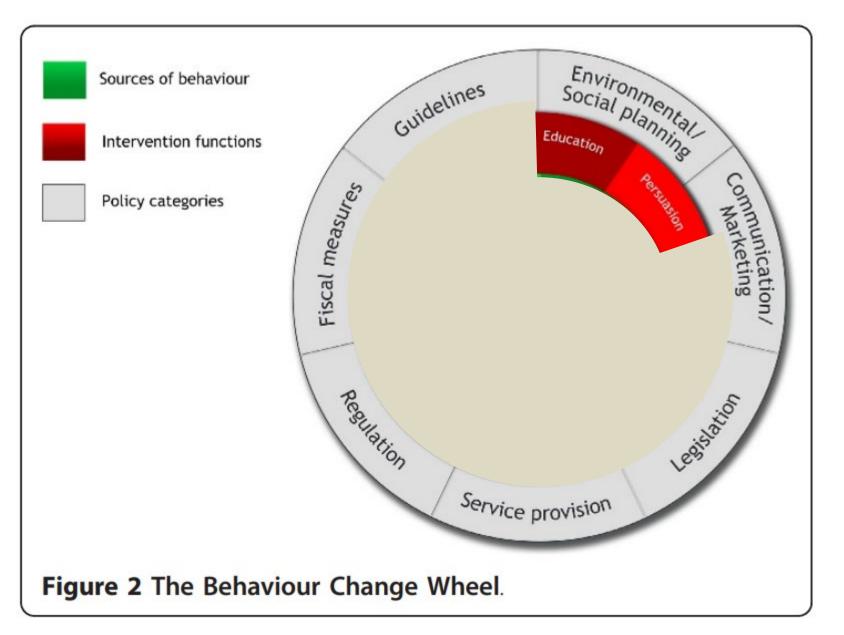
"Priority for recovery: the importance of active and sustainable travel" (July 2021)

# "An introduction to making the case for active travel" (February 2022)





## How can messaging and communication SUPPORT AND PROMOTE ACTIVE AND SUSTAINABLE TRAVEL?



Michie et al (2011)

https://implementationscience.bi omedcentral.com/track/pdf/10.11 86/1748-5908-6-42

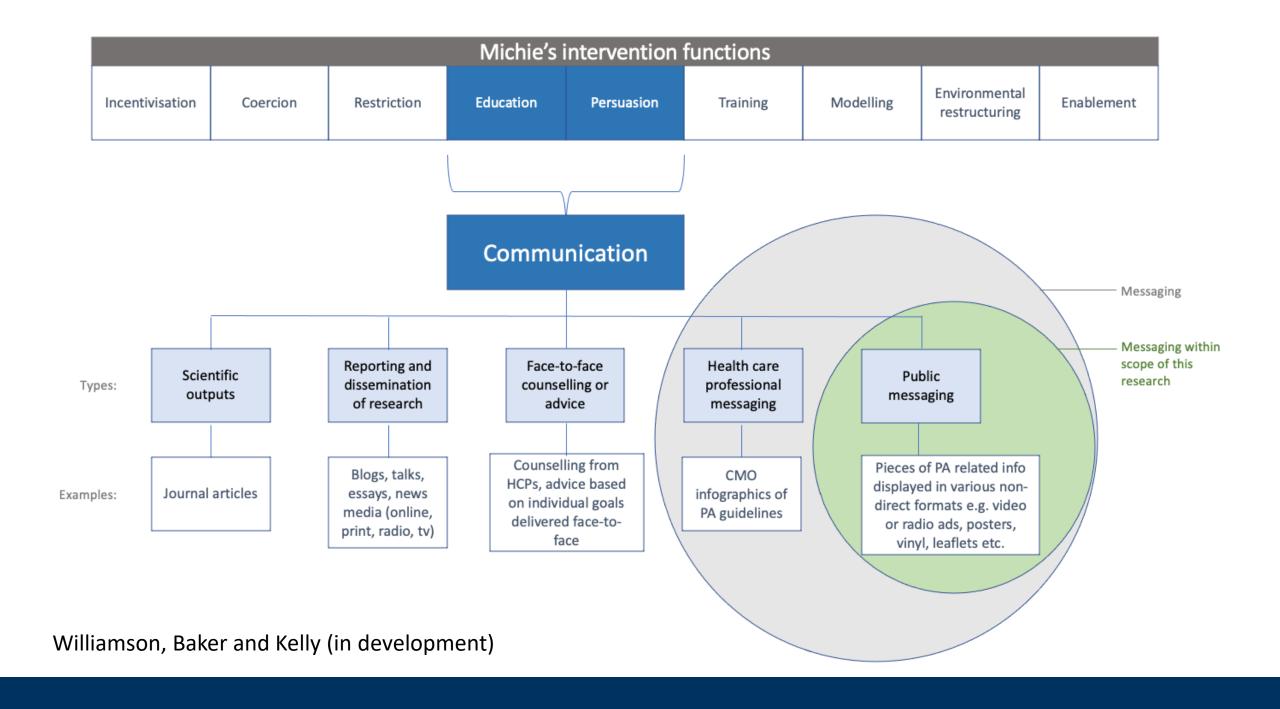
### Communication as a key tool in behaviour change

Behaviour change

Communication and messaging

Education

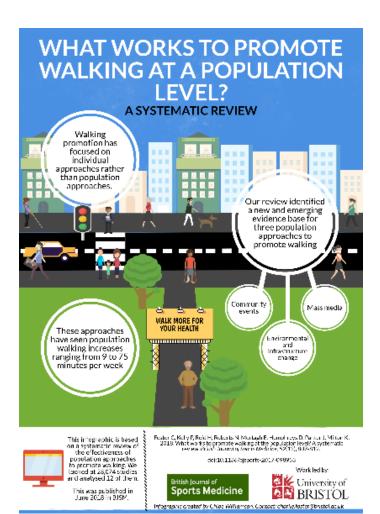
Persuasion



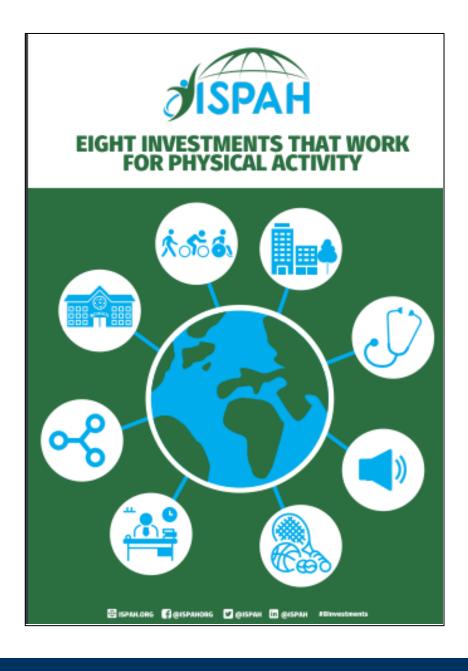
# What works to promote walking at the population level? A systematic review

Charlie Foster, Paul Kelly, Hamish A B Reid, Nia Roberts, Elaine M Murtagh, David K Humphreys, Jenna Panter, Karen Milton

"We found mass media, community initiatives and environmental change approaches increased walking (range from 9 to 75 min/week)."



https://bjsm.bmj.com/content/52/12/807.abstract



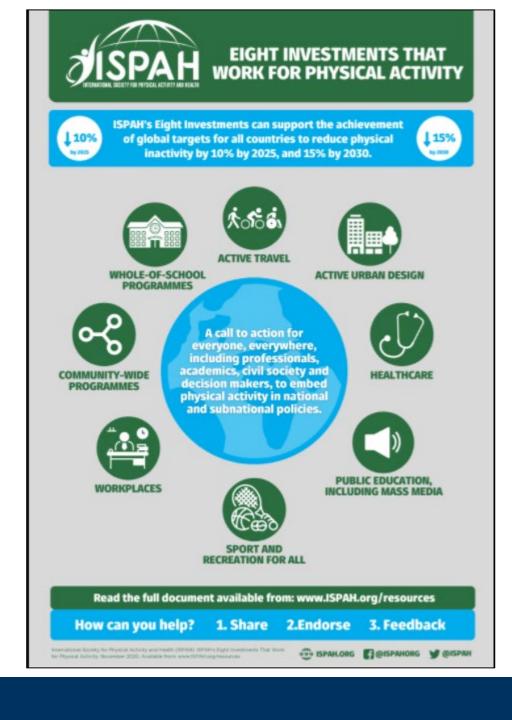
#### The 8 Best Investments

"To support countries, states, cities, towns and villages ready to respond, ISPAH outlines eight investments that work for physical activity, which are supported by good evidence of effectiveness and have worldwide applicability"

https://www.ispah.org/resources/key-resources/8-investments/

### Infographic

https://www.ispah.org/resources/key-resources/8-investments/



# Necessary but not sufficient





COMMUNITY-WIDE PROGRAMMES

A call to action for everyone, everywhere, including professionals, academics, civil society and decision makers, to embed physical activity in national and subnational policies.









Kelly et al. International Journal of Behavioral Nutrition and Physical Activity 2014, 11:132 http://www.ijbnpa.org/content/11/1/132



RESEARCH Open Access

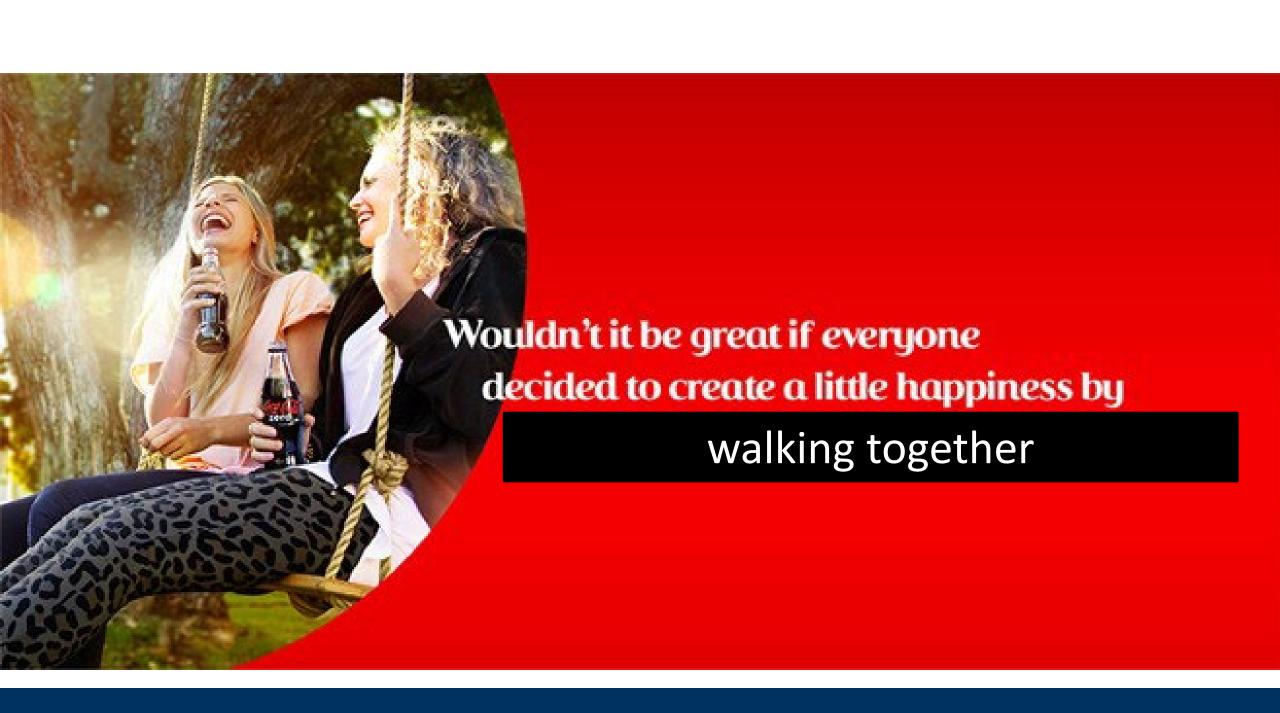
# Systematic review and meta-analysis of reduction in all-cause mortality from walking and cycling and shape of dose response relationship

Paul Kelly<sup>1,2\*</sup>, Sonja Kahlmeier<sup>3</sup>, Thomas Götschi<sup>3</sup>, Nicola Orsini<sup>4</sup>, Justin Richards<sup>5</sup>, Nia Roberts<sup>6</sup>, Peter Scarborough<sup>1</sup> and Charlie Foster<sup>1</sup>

# How would big business communicate and message walking?







# How would big business Promote walking?

Communication

Opportunity

Price/cost



Beyond cycle lanes and large-scale infrastructure: a scoping review of initiatives that groups and organisations can implement to promote cycling for the Cycle Nation Project

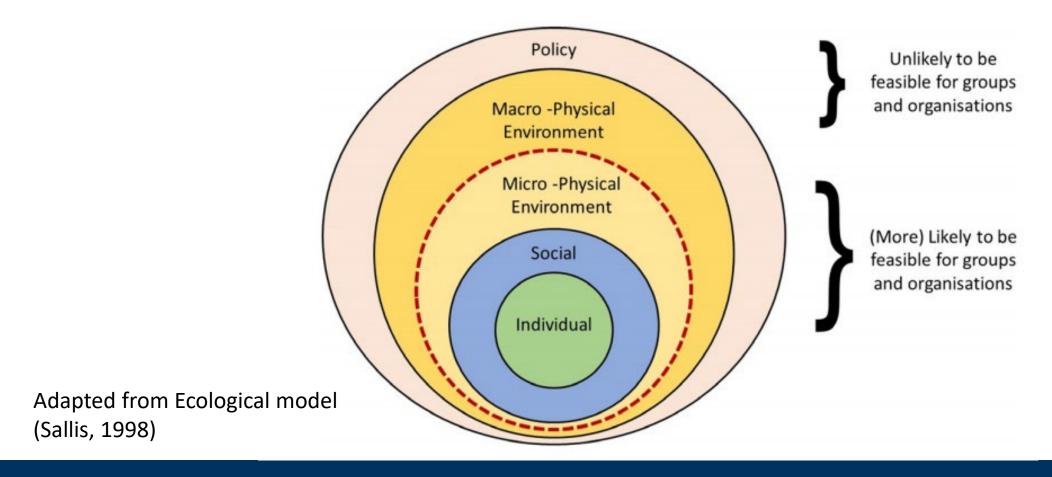
Paul Kelly , <sup>1</sup> Chloë Williamson, <sup>1</sup> Graham Baker, <sup>1</sup> Adrian Davis, <sup>1,2</sup> Sarah Broadfield, <sup>3</sup> Allison Coles, <sup>3</sup> Hayley Connell, <sup>4</sup> Greig Logan, <sup>4,5</sup> Jill P Pell, <sup>4</sup> Cindy M Gray, <sup>4</sup> Jason MR Gill, <sup>4,5</sup> On behalf of the Cycle Nation Project

British Journal of Sports Medicine



#### Aim:

To provide a broad menu of techniques and strategies, which could be used to inform the design of future interventions to promote cycling at levels below the macro-built environment.



#### Initiatives, functions and actions

Initiative

Cycling project

**Function** 

Education

Persuasion

Action category

Knowledge of benefits

Travel planning

Tailored information

Action

Information leaflets

Route maps

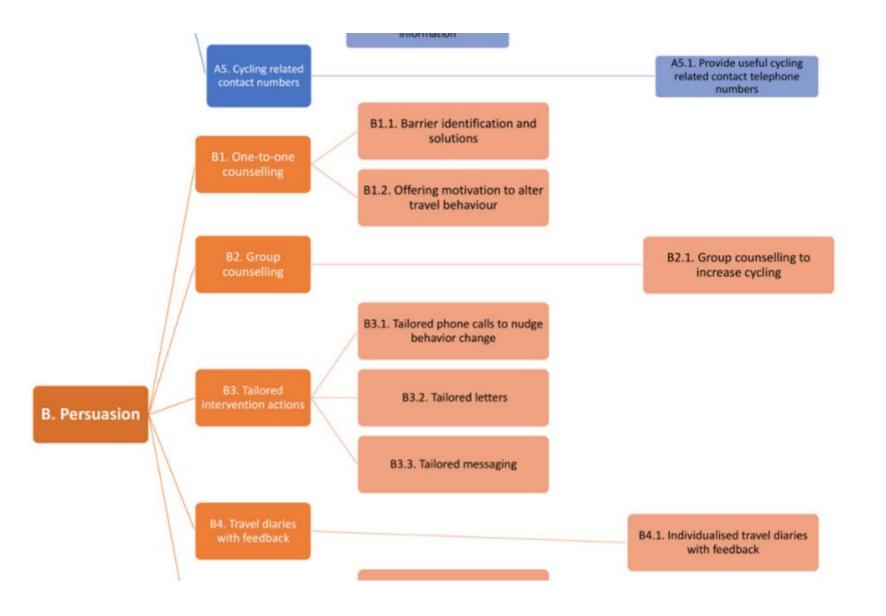
Tailored letters

# Figure 3 Map of cycling promotion functions, action categories and action types.

## The map

93 Action types across the 9 intervention functions





#### HOW CAN WE COMMUNICATE BETTER?

# What information should we communicate?



Action today for all our tomorrows

Attitudes to active travel among people aged 50-70 in the UK: a review of the literature

Davies, Cavill, Corner, Cope

(Aug 2021)

https://ageing-better.org.uk/publications/active-travel-and-mid-life

#### **Environment**

There were virtually <u>no references</u> to the environmental benefits of cycling and walking within this review data.

It appears that <u>enjoying the outdoor environment</u> is much more of a motivator for 50-70 year-olds than protecting the environment.

https://ageing-better.org.uk/publications/active-travel-and-mid-life

There were few or no references to <u>'saving the planet'</u> or <u>'reducing carbon'</u>, and more to <u>enjoying being outside</u> and <u>enjoying the local environment</u>.

This includes being part of the <u>local community</u> – meeting and bumping into people – as much as green space or nature"

https://ageing-better.org.uk/publications/active-travel-and-mid-life



Cllr Lesley Macinnes Retweeted



New survey finds that 67% of young people are worried about how #airpollution will affect their health. It is more important than ever that we shift everyday trips from private cars to #walking, #cycling and public transport. airqualitynews.com/2021/06/01/chi...

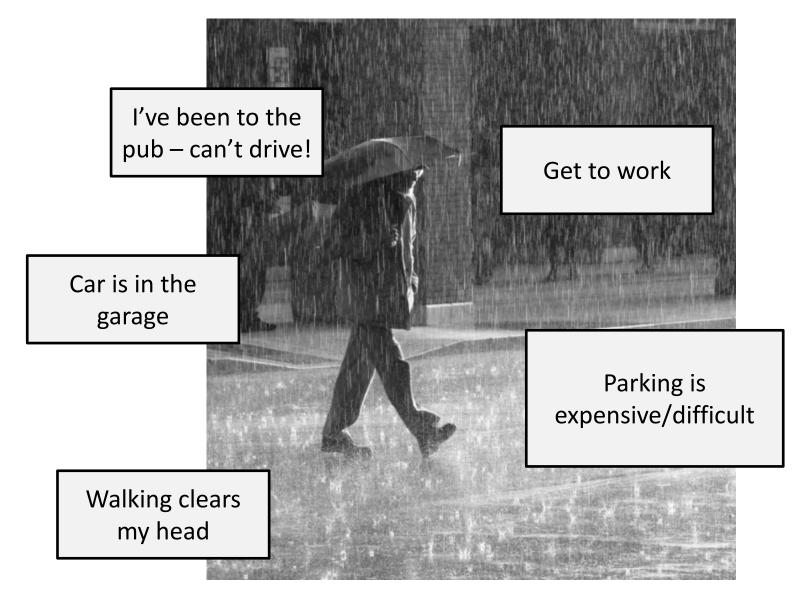


AirQualityNews.com and Global Action Plan

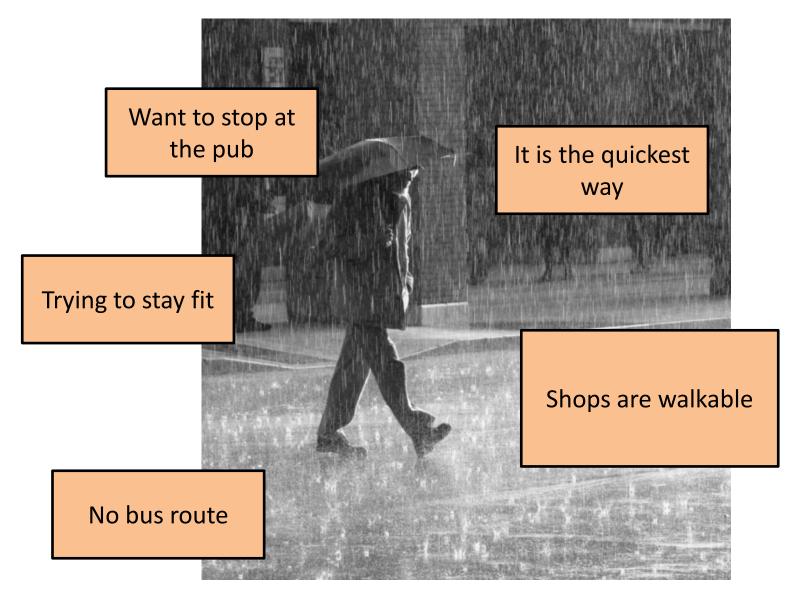
https://twitter.com/sustrans/status/1399762057810022400

## LINEAR CAUSE AND EFFECT?

## Do we understand peoples' motives for walking?



## Do we understand peoples' motives for walking?



## What is your message?



What do people value?

# Messaging of physical activity

Dr Chloë Williamson

University of Edinburgh

twitter: @Chlobobs\_ | email: <a href="mailto:chloe.williamson@ed.ac.uk">chloe.williamson@ed.ac.uk</a>

With thanks to Dr Graham Baker



REVIEW Open Access

## Get the message? A scoping review of physical activity messaging



Chloë Williamson\*, Graham Baker, Nanette Mutrie, Ailsa Niven and Paul Kelly

#### Abstract

**Background:** Understanding how to create and deliver effective physical activity (PA) messages for and to various population subgroups may play a role in increasing population PA levels. This scoping review aimed to provide an overview of what is known about PA messaging and highlight key research gaps.

Methods: We followed a 5-stage protocol proposed by Arksey & O'Malley and the Preferred Reporting Items For Systematic Reviews and Meta-Analyses (PRISMA) extension for scoping reviews checklist. Stage 1: research questions were identified. Stage 2: we identified relevant studies by searching electronic databases, contacting existing networks and hand searching reference lists. Stage 3: studies were screened in Covidence™ software. Stage 4: study data were extracted and charted. Stage 5: findings from included studies were collated, summarised and reported in two ways: (1) a descriptive numerical analysis providing insight into extent, nature and distribution of the included studies, and (2) a narrative summary summarizing the evidence reviewed organised by messaging concepts and by population subgroup.

included in final analysis. We found that PA messaging evidence is complex and multidimensional in nature, with numerous concepts to consider when creating or evaluating messages. The extent to which these different PA messaging concepts have been researched is variable. Where research has accumulated and evidence is consistent,

specifically relating to social and mental health, (2) message content should be tailored or targeted to intended recipient(s), and (3) when developing messages, formative research, psychological theory and/or social marketing principles should be used.

improving population PA levels. However, it is a complex and multidimensional concept and greater understanding is still needed. We present a synthesis of the existing evidence, highlighting key areas where evidence has accumulated and where gaps lie, as well as recommendations for PA messaging to different population subgroups.

Keywords: Exercise, Public health, Guidelines, Communication, Dissemination

Collated and summarized evidence from 123 studies on physical activity messaging

#### **Headline finding 1**

#### Messages should:

- be positively framed
- highlight short term outcomes
- specifically relating to **mental** and **social** health

REVIEW Open Access

## Get the message? A scoping review of physical activity messaging



Chloë Williamson\*, Graham Baker, Nanette Mutrie, Ailsa Niven and Paul Kelly

#### Abstract

**Background:** Understanding how to create and deliver effective physical activity (PA) messages for and to various population subgroups may play a role in increasing population PA levels. This scoping review aimed to provide an overview of what is known about PA messaging and highlight key research gaps.

Methods: We followed a 5-stage protocol proposed by Arksey & O'Malley and the Preferred Reporting Items For Systematic Reviews and Meta-Analyses (PRISMA) extension for scoping reviews checklist. Stage 1: research questions were identified. Stage 2: we identified relevant studies by searching electronic databases, contacting existing networks and hand searching reference lists. Stage 3: studies were screened in Covidence™ software. Stage 4: study data were extracted and charted. Stage 5: findings from included studies were collated, summarised and reported in two ways: (1) a descriptive numerical analysis providing insight into extent, nature and distribution of the included studies, and (2) a narrative summary summarizing the evidence reviewed organised by messaging concepts and by population subgroup.

**Results:** A total of 9525 references were imported into Covidence<sup>™</sup> for screening. Of these, 123 studies were included in final analysis. We found that PA messaging evidence is complex and multidimensional in nature, with numerous concepts to consider when creating or evaluating messages. The extent to which these different PA messaging concepts have been researched is variable. Where research has accumulated and evidence is consistent,

specifically relating to social and mental health, (2) message content should be tailored or targeted to intended recipient(s), and (3) when developing messages, formative research, psychological theory and/or social marketing principles should be used.

improving population PA levels. However, it is a complex and multidimensional concept and greater understanding is still needed. We present a synthesis of the existing evidence, highlighting key areas where evidence has accumulated and where gaps lie, as well as recommendations for PA messaging to different population subgroups.

Keywords: Exercise, Public health, Guidelines, Communication, Dissemination

#### **Headline findings 2**

 Messages should be tailored or targeted to intended recipient(s)

#### **Headline findings 3**

When developing messages,
 formative research,
 psychological theory and/or
 social marketing principles
 should be used

#### **Physical Activity Messaging** Recommendations

For different groups

Highlight

Engaging modes e.g. social and Children & affective videos Young People benefits Highlight Informal Clear and "physical social and delivery practical activity is mental e.g. via benefits cool and phone threat For: based All groups **Pregnant** Adults Women **Evidence supports** use of **positive** E.g. provide safe examples highlighting the Informal "physical short-term delivery e.g activity benefitsof peers, the makes you physical activity Credible Highlight source e.g. affective social benefits workers Adult: E.g. "move

opportunity to connect

vith others

This infographic was created by Chloë Williamson

Chloë Williamson: @Chlobobs\_ Paul Kelly: @narrowboat\_paul

Graham Baker: @DrGrahamBaker Ailsa Niven: @AilsaNiven

inclusive

images

in a way

that feels

good"

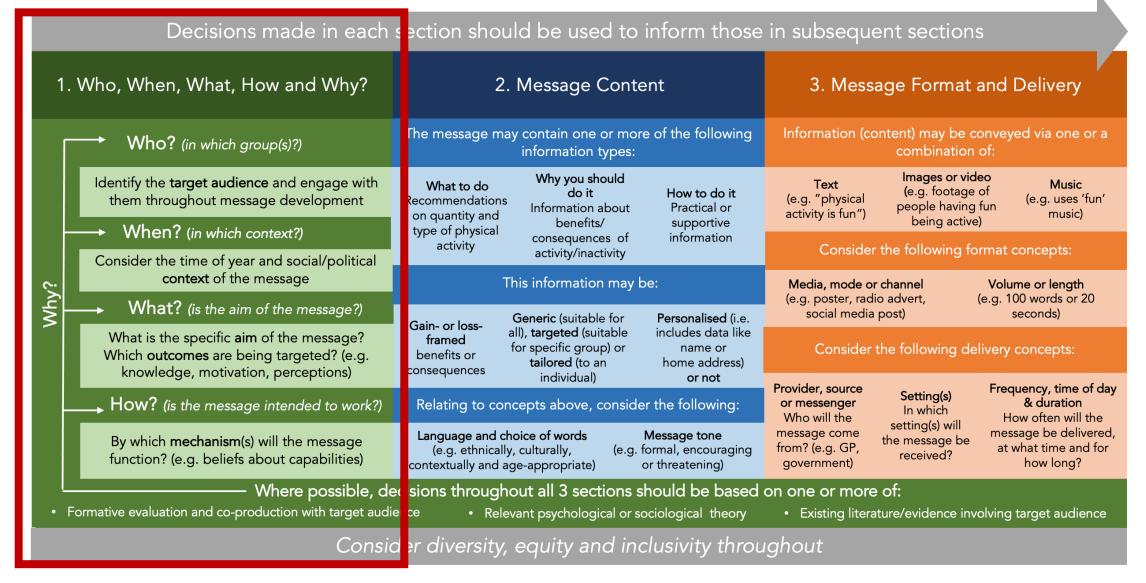
Physical activity is cool and fun

Physical activity makes you feel good

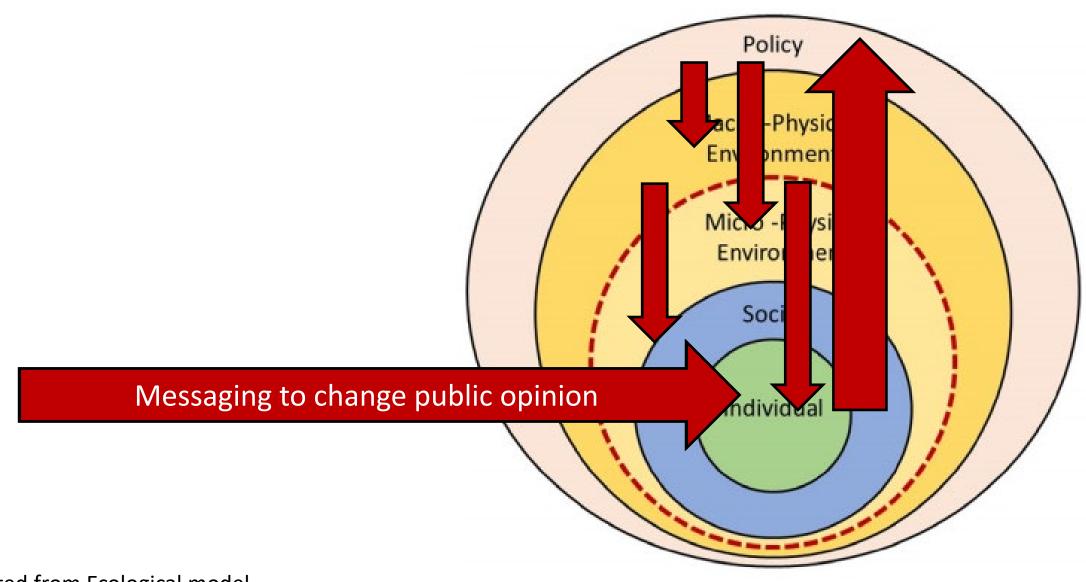
> Physical activity is an opportunity to connect with others

https://twitter.com/chlobobs / status/1250758695627247616

## The PAMF (Physical Activity Messaging Framework)



## What are we trying to achieve?



Adapted from Ecological model (Sallis, 1998)



# Maximising the impact of global and national physical activity guidelines: the critical role of communication strategies

Karen Milton , <sup>1</sup> Adrian E Bauman, <sup>2</sup> Guy Faulkner, <sup>3</sup> Gerard Hastings, <sup>4</sup> William Bellew, <sup>2</sup> Chloë Williamson , <sup>5</sup> Paul Kelly , <sup>6</sup>

Figure 1 A planning framework for physical activity communication, adapted from Hastings.<sup>9</sup>

Review



# Maximising the impact of global and national physical activity guidelines: the critical role of communication strategies

Karen Milton , <sup>1</sup> Adrian E Bauman, <sup>2</sup> Guy Faulkner, <sup>3</sup> Gerard Hastings, <sup>4</sup> William Bellew, <sup>2</sup> Chloë Williamson , <sup>5</sup> Paul Kelly , <sup>6</sup>

https://bjsm.bmj.com/content/bjsports/54/ 24/1463.full.pdf

	1	2	3	4	5	6	7
Target of communications	Policy-makers within the health sector	Policy-makers outside the health sector	Key stakeholders	General public	Specific population subgroups	Health professionals	Non-health professionals
Purpose of communication	Advocacy	Advocacy	Advocacy	Education	Education	Education	Education
Aim of guideline communication	Encourage national adoption of the WHO physical activity guidelines and/or national guidelines Encourage integration of physical activity into all relevant health policies Encourage scaled-up and coordinated actions.	Increase recognition of the role of physical activity in contributing to a broad range of diverse yet related agendas Increase cross-sectoral engagement in policies and actions in sectors outside of health that promote physical activity (ie, use a 'health in all	Increase awareness of the role that a range of stakeholders can play in gaining wider recognition and greater support for the physical activity agenda Engage a wide group of stakeholders in advocating for physical activity guidelines and the	Increase awareness and knowledge of the physical activity guidelines Increase awareness and knowledge of how to achieve the physical activity guidelines Reduce (real and perceived) barriers to being physically active Influence attitudes,	Increase awareness and knowledge of the physical activity guidelines Increase awareness and knowledge of how to achieve the physical activity guidelines, tailored to each subgroup's circumstances (eg, persons with disabilities) or cultural	Increase awareness and knowledge of the physical activity guidelines Increase knowledge, skills and confidence in promoting physical activity Encourage integration of physical activity promotion into routine practice.	Increase awareness and knowledge of the physical activity guidelines Increase knowledge, skills and confidence in promoting physical activity, solely and as part of multidisciplinary or multisector collaborations Encourage integration

Review



Maximising the impact of global and national physical activity guidelines: the critical role of communication strategies

## In summary

Communication and messaging a necessary part of a "systems" approach

Core component of behaviour change but also impacting policy

Physical activity researchers starting to look at this more

And develop frameworks and guidance that will aid practice

#### Physical Activity for Health Research Centre (PAHRC)

## Please get in touch if you have any questions!



#physicalactivity

p.kelly@ed.ac.uk

@narrowboat paul

Feb 2022

