Evidence-based policy making for health promotion to reduce the burden of non-communicable diseases in Moldova

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Abstract
The Republic of Moldova faces several concurrent health challenges most notably an increase in chronic non-communicable diseases, spiralling health care costs and widening health inequalities. To accelerate progress in their resolution there is a need for new and innovative health promotion and behaviour change communication interventions. The Ministry of Health, Labour and Social Protection in collaboration with the newly created National Agency for Public Health held a conference on the occasion of the Moldovan National Day of Health Promotion on 14th March 2018 in which national and invited international experts exchanged their views on (1) best practice examples of behaviour change interventions, health promotion activities and lessons learned from the UK and elsewhere; and (2) possible ways forward for Moldova to implement cost-effective and evidence-based intersectoral health promotion programmes. The experts provided recommendations on implementing behaviour change interventions to reduce and prevent obesity; on the creation of a favourable tobacco control environment to reduce smoking prevalence; and on how physical activity programme design can benefit from health psychology research. All these strategies could foster health promotion activities and ultimately contribute to improving the health outcomes of the Moldovan population.

Background
Epidemiological transition and non-communicable diseases in Moldova
Non-communicable diseases (NCDs) accounted for about 70% of all deaths globally in 2015 and more than 80% of these premature deaths were in low-income and middle-income countries (LMICs) [1]. Like many countries, the Republic of Moldova (hereinafter Moldova) faces a recent transition in the profile of health affecting the health status of its population with a growing NCD burden [2]. The prevalence of NCDs in the country is very high, accounting for 90% of all-cause mortality in 2016. The major NCDs are cardiovascular diseases (CVDs) and cancers, accounting for 59 and 15% of all deaths, respectively [3].

Alcohol consumption and tobacco smoking are the key health risks for most Moldovans and mortality and morbidity from these risk factors account for a sizeable disease burden on society [3]. According to 2010 figures, 58% of total male mortality and 62% of female mortality could be attributed to smoking-related causes, while 19% of male mortality and 14% of female mortality were related to alcohol consumption [4, 5]. There is an uneven distribution of the major risk factors with men having higher rates of engaging in tobacco smoking and alcohol consumption (Table 1) [3, 6, 7]. As shown in Table 1, overweight and obesity constitute another major public health problem in Moldova with 47% of its adult population (18 and over) being classified as overweight or obese (BMI ≥ 25) in 2014 [7]. Current physical activity levels in Moldova are unclear [8], with 2013 data...
sustaining 10% of the population is insufficiently active while 76% does not engage in vigorous activity [9]. Physical inactivity however is one of 10 leading behavioural risk factors contributing to disease burden in Moldova [8]. High systolic blood pressure is the second contributor to burden of disease in Moldova after dietary risks [8].

However, these estimates show that there is a lack of more recent, aggregated, data on the burden of NCDs and associated risk factors amongst the Moldovan population [2, 3, 6, 7]. The existing system for NCD surveillance is not operational, and data on risk factors and behaviours related to NCDs are not routinely collected as part of the country’s health information system [3].

NCD and health promotion policy environment in Moldova
The Government of Moldova has embarked on a health system reform to primarily strengthen the delivery and quality of primary health care since the late 1990s [4]. Moldova made considerable advances in reorienting its hospital-focused health system towards primary health care (PHC) based on a family medicine model where private health providers are directly contracted by the health insurance system [4]. The health insurance, however, inadequately covers costs for both the provider and the patient with high out-of-pocket costs for medicines, and thus limits patients’ access to critical therapies and care, especially for chronic illnesses [2, 10]. Moreover, there are few state-supported health promotion activities sustained by the PHC system and family doctors continue to be largely focused on the provision of curative services, whilst public health promotion and prevention activities are considered to be of a lesser concern in resource-constrained circumstances. This is also exemplified by the proportion of public health expenditures from 2010, which is high for curative services (68%) and very low for public health and prevention (5%) [4].

The Ministry of Health, Labour and Social Protection (MoHLSP) has made progress in establishing an extensive legal and policy framework relevant to the control and improvement of service delivery for NCDs. NCDs have gained high priority in two overarching national policy frameworks for health; the Moldovan National Health Policy for 2007–2021 [11], and the Health Care System Development Strategy for 2008–2017 [12]. Both pursue the goal of significantly reducing the NCD disease burden and avoiding premature deaths through integrated actions, improving the quality of life and healthy life expectancy [2]. In line with national policy commitments, the Parliament has approved a NCD Prevention and Control Strategy 2012–2020 in 2012 [13]. The core focus of this strategy is the control of the main NCDs and their risk factors, as well as opportunities to prevent them. At the same time, it has launched several national programmes related to alcohol and tobacco control to address major risk factors for NCDs [2]. A national Health Promotion Programme encourages healthy behaviours at all stages of life through the modification of attitudes and improvement of knowledge among adults, adolescents and youth. Capacity building of health and education specialists on planning and implementing health promotion actions at national and local level are at the core of this Programme. However, even though NCDs gained political momentum, progress in implementing national chronic disease programmes and strategies has been slow with limited financial resources for implementation [2]. The burden of NCDs and related health care costs still undermine social and economic development in Moldova and represent an urgent public health priority [14].

The healthy life project “Reducing the Burden of NCDs in Moldova”
The Swiss Agency for Development and Cooperation’s (SDC) Healthy Life Project was launched in 2017 to support the MoHLSP in reducing the burden of NCDs in Moldova as part of a bilateral development aid agreement. The Healthy Life Project is implemented by the Swiss Tropical and Public Health Institute (Swiss TPH) and its national and local partners, i.e. the raion (district) and local public authorities, medical teaching and training institutes for family health, primary health care and public health services, and community-based organisations. The project is designed to support the development of an enabling policy environment, to improve the quality uptake of NCD services at PHC level, and to increase the healthcare seeking behaviour of the population [15].

On the occasion of the Moldovan National Day of Health Promotion specialist on 14th March 2018, a two-day working conference was organised by the MoHLSP and the newly created National Agency for Public Health in Chisinau. The aim of this conference was to share the latest evidence in health promotion and behaviour change for NCDs by international and national experts in an interactive workshop setting. The objective of the workshop was to develop action plans for behaviour change interventions by multisectoral raion teams, taking into account latest scientific evidence and international best practice examples. To this end, the conference organisers invited international health promotion, behaviour change

| Table 1 Major risk factors among the Moldovan population |
|----------------------------------------------------------|
| **Risk factors**                                    | **Women (%)** | **Men (%)** | **Total (%)** |
| Overweight (2014)                                      | 46.7          | 46.4        | 46.6          |
| Tobacco smoking (2013)                                 | 5.4           | 44.8        | 23.8          |
| Alcohol consumption (2010)                             | 8.9           | 25.9        | 16.8          |
| Raised blood pressure (2008)                           | 39.6          | 41.3        | 40.4          |
and health psychology experts from their professional networks, national public health policy experts and practitioners, representatives from medical, social, educational sectors, community leaders and local public authorities as well as the representatives from the MoHLSP to participate as speakers and panellists. As the conference aimed at many non-English speaking health professionals facing a language barrier in their access to research literature, the conference was being translated into Romanian and Russian in real time alongside the slides. As an outcome of the conference, this paper specifically describes:

1. **Best practice examples of behaviour change interventions, health promotion activities and lessons learned from the UK on the topics of physical activity, obesity and tobacco cessation (explained by three international conference speakers)**

2. **Recommendations for Moldova on how to adapt some of these health promotion strategies to its context to improve the health status of the Moldovan population.**

We begin our summary of the conference with three best practice examples of health promotion and behaviour change interventions in the U.K. in the areas of overweight and obesity guidelines development, tobacco cessation and physical activity. We will then highlight recommendations from the speakers for guiding the development of behaviour change strategies in Moldova adapted to the national context and resources for a successful promotion of healthy lifestyles.

**Case study 1: developing national guidance for effective diet and obesity interventions**

Overweight and obesity are increasingly affecting the population of the UK; the prevalence of obesity rose from 6% of men and 8% of women in 1980 to 26% of men and 27% of women in 2016 [16, 17]. Overweight is more common than obesity among the UK population, with 40% of men and 30% of women classified as overweight in 2016 [17]. The illnesses related to an excess of weight include type 2 diabetes, hypertension, stroke, dyslipidaemia, osteoarthritis and some cancers [18, 19]. The treatment of obesity remains challenging and requires multicomponent weight management programmes, but up to 2014, existing service provision was often limited in scope [20, 21].

It is now widely recognised that multiple interventions at multiple levels are often needed to initiate and sustain behaviour change effectively. Interventions on social and behavioural factors related to health should link multiple levels of influence, including the individual, interpersonal, institutional, community, and policy levels [22]. Public health interventions should not only be targeted at individuals, but also affect interpersonal, organisational, and environmental factors influencing health behaviour as it is increasingly recognised that individual behaviour change affects and is affected by the larger socioecological environment [23, 24]. There is increasing emphasis on identifying evidence-based interventions and disseminating them widely [25]. One of these examples is the development of evidence-based national guidance and advice by the National Institute for Health and Care Excellence (NICE).

**Development of a national guidance on overweight and obesity prevention and management**

Since 1999 NICE has been developing recommendations on public health interventions in the UK using the best available evidence for disease prevention and control for those working in health and social care in England [26]. The role of NICE is to improve outcomes for people using the National Health Service (NHS) and other public health and social care services. NICE pursues an evidence-based approach to produce guidance and advice for health, public health, and social care practitioners. It has produced a number of guidelines on diet management, behaviour change and physical activity that make recommendations on local interventions to help prevent disease or improve health [26], such as its guidance on managing overweight and obesity.

In 2014, NICE has updated its evidence-based guidance on obesity and weight management [27], obesity prevention [27], as well as on lifestyle services for overweight or obese adults [28]. As summarised in Table 2, this guidance outlines how public health services and local authorities can increase physical activity levels in a variety of settings (early childhood development settings, schools and workplaces) and achieve dietary changes among their target populations. It covers the core component for effective lifestyle weight management services and recommends an integrated approach to preventing and managing obesity. Moreover, it also addresses community-wide strategies to prevent obesity through the sustainable engagement of local communities, local organisations, and networks.

Examples of how the guidance has been put into practice and evaluated in the NHS, local authorities, voluntary sector and a range of other organisations can be found on the NICE shared learning pages [29, 30].

**Case study 2: effective behaviour change interventions for smoking cessation and prevention**

Smoking remains the largest, preventable cause of death worldwide, killing more than 7 million people around the world each year, of them 114,513 per year in the UK [31]. Tobacco use is highly addictive, resulting in only half of smokers managing to quit tobacco completely in their
Table 2 Overview of behaviour change interventions covered by the different guidance on obesity

| Guidance Title                                                                 | Interventions | Advice and referral – physical activity | Advice and referral – diet | Lifestyle weight management programmes | Workplace interventions | School based interventions | Community based interventions | Self-help | Media | Training, communication and professional skills | Local education initiatives | Promoting Breastfeeding | Cultural appropriateness | Partnership working and JSNA | Planning, monitoring and evaluation |
|--------------------------------------------------------------------------------|---------------|------------------------------------------|-----------------------------|----------------------------------------|-------------------------|---------------------------|-------------------------------|-----------|------|-----------------------------------------------|-----------------------------|------------------------|-------------------------|-------------------------------|---------------------------------|
| NG7 Preventing excess weight gain                                              |               | Y                                        | Y                           | N                                      | N                       | N                         | N                             | N         | Y    | N                                             | N                           | Y                      | Y                       | N                             | N                        |
| PH53 Weight management lifestyle services for overweight or obese adults       |               | Y                                        | Y                           | N                                      | N                       | Y                         | Y                             | N         | N    | N                                             | N                           | Y                      | N                       | Y                             | Y                        |
| PH47 Weight management lifestyle services for overweight or obese children and young people |               | Y                                        | Y                           | N                                      | N                       | Y                         | Y                             | Y         | N    | N                                             | N                           | N                      | N                       | Y                             | Y                        |
| PH46 BMI: preventing ill health and premature death in black, Asian and other minority ethnic groups |               | Y                                        | Y                           | N                                      | N                       | Y                         | Y                             | Y         | N    | N                                             | N                           | N                      | N                       | N                             | N                        |
| PH42 Obesity working with local communities                                    |               | N                                        | N                           | N                                      | Y                       | N                         | Y                             | N         | Y    | Y                                             | Y                           | Y                      | Y                       | Y                             | Y                        |
| PH27 Weight management before, during and after pregnancy                     |               | Y                                        | Y                           | N                                      | N                       | Y                         | Y                             | Y         | N    | Y                                             | Y                           | N                      | N                       | N                             | N                        |
| CGA3 Obesity prevention                                                        |               | Y                                        | Y                           | N                                      | Y                       | Y                         | Y                             | N         | N    | N                                             | N                           | N                      | N                       | N                             | Y                        |
lifetime [32]. Not only does smoking have dire health consequences - smokers die on average at least 10 years earlier than non-smokers [33, 34] - but it also causes high health costs and loss of productivity [35]. Reducing tobacco consumption is therefore likely not only going to improve the health but also the wealth of a nation [36].

There are several frameworks that help in the development, evaluation and categorisation of tobacco control interventions. One of them is the conceptualisation of tobacco control methods into their mode of action and level of delivery which work at different stages of the tobacco epidemic [37].

At the earliest stage of the epidemic, increasing awareness in the population of the consequences of tobacco use through mass media campaigns showed positive results [38]. At the same time, publicising basic research likely increases awareness and can change behaviour not only of smokers themselves but also of health professionals to support tobacco control [39]. Lastly, changing social norms and values can create a favourable atmosphere for tobacco control [40].

Taxation is one of the most effective ways to reduce tobacco consumption and is often introduced at later stages in the epidemic [41]. The introduction of clean air laws and smoking bans can have a similar impact on tobacco use as tax increases [42]. Finally, product regulation can help make cigarettes less addictive and therefore less attractive and can help encourage smokers to switch to less dangerous products to reduce harm [43, 44].

At the latter stages of the tobacco epidemic, intervention programmes operating at the individual level tend to be implemented. They usually mobilise a combination of approaches ranging from behavioural support interventions (such as brief counselling, telephone counselling or intensive face-to-face support) to e-health approaches (text messaging, internet and apps) and pharmacotherapy (nicotine replacement therapy and Varenicline). Table 3 further elaborates on the range of effective behaviour change interventions for tobacco cessation and prevention which are available for policy-makers and intervention designers.

In general, successful behaviour change interventions for smoking cessation and prevention are among the cost-effective healthcare interventions [60, 61]. However, there is a trade-off in so far as cheaper, less intensive interventions have a lower impact than more expensive, intensive interventions but the latter may be less affordable for LMICs [62]. Overall, it is the combination of pharmacotherapy with behavioural support which provides the best long-term outcomes for smoking cessation.

**Case study 3: designing an effective community-based physical activity programme for those with CVD risk and poor mental health**

Physical activity is one of the most underused behavioural medicines, with 40% of adults in the UK [63], 45%

| Table 3 Overview of behaviour change interventions for tobacco cessation and prevention |
|---------------------------------------------------------------|
| Intervention domains for smoking cessation and prevention |
| Behavioural Support | M/E-Health | Pharmacotherapy |
| Brief counselling | • Usually provided by a health professional | | | • Includes various different forms (including gum, patch and spray) |
| | • Involves asking patients about their smoking status, advising them to quit and assisting with further help (e.g. prescription or referral) | | • Should be provided for at least 8 weeks. |
| | • Takes no more than 5 min and can increase long-term abstinence rates by 1–3% [45]. | | • Decreases the motivation to smoke by reducing cravings and withdrawal symptoms, reducing the rewarding effect of smoking and providing behavioural control. |
| | • Proactive and lasts at least three sessions | | • Can increase long-term abstinence rates by around 10% [53, 54]. |
| | • Involves motivational messages, advice for self-regulation, self-monitoring and social support | | Varenicline | |
| | • Can increase long-term abstinence rates by 2–4% [45]. | | • Partial nicotine receptor |
| Intensive face-to-face support | | | • Should be taken for at least 12 weeks |
| | • Provided one-to-one or in groups and usually lasts for at least 4-6 weekly sessions | | • Reduces cravings and withdrawal symptoms and the rewarding effects of smoking |
| | • Involves provision of social support, advice, and encouragement to minimise motivation to smoke and maximise motivation to remain abstinent, increase the skills and capacity for self-control and optimise effective medication use. | | • Is the most effective pharmacotherapy available [55], can increase long-term abstinence rates by around 15% [56]. |
| | • Strengthening ex-smoker identity, providing rewards and advising on changing routine have proven to be particularly important [46]. | | Combination therapy |
| | • Can increase long-term abstinence rates by 10% [47, 48]. | | • A combination of pharmacotherapy with behavioural support provides the best long-term outcomes for smoking cessation, and can lead to abstinence rates of around 20% at 12 months [57]. |
| | | | • Evidence available that a combination of different pharmacotherapies is more effective than single form pharmacotherapy [58, 59]. |

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The programme consisted of a 45 min one-to-one consultation and a phone call booster (2 weeks later) with a Registered Exercise Professional (Get Active Specialist: GAS) who had been specifically trained in behaviour change, motivational interviewing and health coaching [75, 82]. The GAS supported programme users through the consultation, using an Active Herts booklet (focusing on BCTs such as goal setting, problem solving, action planning, prompts/cues, self-reward, social support), and then referred them to local exercise classes (instruction on how to perform the behaviour, demonstration of the behaviour, behaviour practice/rehearsal), that were free in two of the four programme areas. To support replicability, a protocol was published and made open access [76]. Early evaluation results show that there was a significant increase in the number of programme users who reported engaging in regular physical activity 12 months after the intervention, alongside improved health and wellbeing levels [75].

### Table 4 COM-B diagnosis of factors that influence participation in physical activity

| Capability (Psychological and Physical) | Opportunity (Physical and Social) | Motivation (Reflective and Automatic) |
|-----------------------------------------|-----------------------------------|--------------------------------------|
| Unaware of guidelines in relation to own behaviour | No-one to go with | Lack of confidence |
| Often forgets to be active | Lack of support to be active | Low outcome expectancies |
| Lack of headspace to plan | Not enough money for gym | Habitual inactivity |
| Low stamina/energy | Unsupported environment | Restricted by emotion (nervous/scared) |

*COM-B Capability, Opportunity and Motivation

in Australia [64], and 79% in America [65], failing to reach the World Health Organization (WHO) recommendations of 150 min of moderate to vigorous physical activity per week [66]. In addition to these recommendations, it is important to break up sitting time in order to reduce the risk of non-communicable disease [67]. Physical inactivity is the fourth leading risk factor for mortality, accounting for 6% of deaths worldwide [66]. Hence, the practise of regular physical activity has huge potential to reduce all-cause mortality and enhance good health [68, 69], protecting against and benefiting the treatment of CVDs [70], stroke, cancer, type 2 diabetes [71], and depression [72]. Public health programmes that aim to enhance physical activity are therefore of priority.

In order to enable a global understanding of what works to enhance physical activity and target NCDs, it is argued that: 1) behavioural science and public health must work together and 2) effective interventions are not developed ‘by chance’, instead the intervention design, delivery, evaluation and adoption must draw upon relevant strategies, frameworks and approaches to perform and address a systematic behavioural diagnosis of the target population [73–75].

The community-based health programme ‘Active Herts’ aimed to enhance physical activity, health and wellbeing in those with CVD risk and poor mental health [76]. It was informed by the Behaviour Change Wheel (BCW) and COM-B model of behaviour [77], and the latest evidence from health psychology using this model to explain physical activity [78]. Table 4 provides an overview of some of the core determinants that were targeted based on a COM-B behavioural diagnosis.

To ensure scientific rigour and long-term effectiveness, the programme drew from a systematic review of the literature that highlighted successful strategies for physical activity enhancement and/or sedentary behaviour reduction [79, 80]. Table 5 shows the behaviour change techniques (BCTs) drawn from the 93 item taxonomy that were found to be effective at changing physical activity behaviour from the review of published evidence [81].

Based on these findings, the ‘Active Herts’ programme was designed to include the BCTs shown to be the most effective at enhancing physical activity, alongside others that target Capability, Opportunity and Motivation (COM-B).
Physical activity bears great potential for maintaining health and treating illness. Applying behavioural science in public health settings to understand and change behaviour can maximise the scale of the impact of public health interventions and assist in the mission to improve world-wide population health and wellbeing.

Discussions and recommendations for Moldova – adopting evidence-based approaches to health promotion

The final session of the conference was dedicated to discussing and identifying potential strategies to effectively implement behaviour change interventions and health promotion activities within primary health care settings at the raion level in Moldova. The following key recommendations resulted from this discussion and the experts interventions.

Prioritize cost-effective and evidence-based interventions to reduce and prevent obesity

Moldova should consider implementing cost-effective and evidence-based interventions to reduce the high prevalence of obesity. Prevention of obesity through lifestyle weight management programmes delivered by skilled providers is an option. NICE provides recommendations on the core components for effective weight loss and Moldova should consider implementing some of these measures in a coordinated way through multidisciplinary providers [81]. Given the limited resources available within Moldova, when considering implementing behaviour change interventions to reduce obesity it is worthwhile to remember that potential additional costs may be incurred when training staff, including those not directly involved in services providing behaviour change interventions. Costs can also be incurred when evaluating and monitoring behaviour change interventions. However, interventions aimed at changing people’s health-related behaviours have the potential to improve their health and wellbeing considerably and any costs can be offset by disinvesting in interventions where evidence shows them to be not effective or harmful. These savings could be reinvested in effective evidence-based services.

Create a favourable tobacco control environment to reduce smoking prevalence

Moldova should consider increased taxation for tobacco products to drive down smoking prevalence. Existing social norms around gender-specific smoking rates should be exploited to create a favourable tobacco control environment. Further mass media campaigns may be useful, but only if there is evidence of low awareness of the consequences of tobacco use in the general population. Primary physicians have a key role in helping people to stop smoking through brief counselling (see Table 3). Increasing the number of General Practitioners providing smoking cessation advice is likely to have an impact at population level and is cheap (around US$19). These cost estimates were derived from the Affordability Calculator [83], whereby Moldova specific data on GDP were used with additional reference data based on Russian estimates. Furthermore, the rise in the popularity of e-cigarettes has provided the opportunity for a consumer-driven intervention which may reduce smoking rates via harm reduction [83]. E-cigarettes can become cheaper than cigarettes (around US$20–25) and as this approach is self-funded it would be free to governments. Nicotine replacement therapy with cytisine which is similar in action to varenicline can be just as effective but is much cheaper (US$20) [62, 77, 84]. The Law on tobacco control was amended by the Parliament of Moldova in July 2019 towards increased regulation of non-burning tobacco products, in line with the position of WHO recognizing that electronic nicotine delivery systems (ENDS) are not harmless and the evidence of the impact on health remains limited [85]. Whether or not e-cigarettes should be used in the framework of a harm reduction approach is currently debated [86, 87].

Furthermore, text-based interventions are cheap (around US$39) and can have a wide reach (see Table 3). They are therefore ideal in the context of Moldova. However, the usefulness of text-based interventions partly depends on the extent of skilled mobile phone use in specific population groups such as the elderly, and the quality of existing networks, especially in remote areas. Similarly, tailored self-help material is cheap (around US$10–14) and has similar effectiveness to brief advice [88]. This is also true for telephone quit lines which are cost-effective and can reach large sways of the population. Lastly, while more evidence needs to accumulate for internet and app-based smoking cessation interventions, their wide reach and low cost makes them an ideal candidate for inclusion in comprehensive treatment packages for LMICs such as Moldova. Because developments in this area are rapid, these tools should be closely monitored as evidence is increasing to support their effectiveness, and they may be particularly suitable for targeting younger or more disadvantaged smokers [89, 90].

Design and implement evidence-based, community programmes on physical activity

In Moldova there is a need to develop and maintain national guidelines and surveillance for levels of physical activity in the general population [91]. This is essential to assess current needs for increased intervention and design adapted behaviour change programmes to support a beneficial change in behaviour. Furthermore, physical activity
intervention or programme developers should consider evidence-based frameworks, theoretical approaches and insights from health psychology and behavioural science to guide intervention design, development, delivery, evaluation and adoption strategies ([IDDEAS: [92, 93]). Community-based programmes jointly implemented by skilled providers across all sectors, with targeted individual behavioural support, should be the preferred level of intervention, especially in lower-income settings to avoid a waste in resource. A detailed protocol developed that explains what the intervention aims to do, how it will do it and why can aid in replication and roll-out if the programme is successful. Following the Active Herts protocol could support the development of future interventions in this area using the evidence-based and theoretically-driven behaviour change techniques and approaches mentioned above [76] and further research into local health behaviour determinants in targeted population groups in Moldova are encouraged to use this approach.

Conclusions
The case studies shown during the Conference described here provide a number of best practice interventions adaptable to Moldova, including options for resource-constrained settings. Health psychology research can inform the development of appropriate individual and population health promoting strategies but access by Moldovan specialists to this body of scientific evidence requires sustained support and investment. Overall, there is growing awareness of the complexities of embedding behavioural science in public health practice more widely [94]. It will be important that health promotion strategy development benefit from extensive and appropriately funded stakeholder consultations to ensure the inclusion of the latest evidence.

The implementation of cost-effective and evidence-based interventions to reduce obesity, the creation of a favourable tobacco control environment to reduce the smoking prevalence and the design of community-based programmes for physical activity is expected to foster national behaviour change communication and health promotion activities and in a longer-term, contribute to strengthening the national health system and improve the health outcomes of the Moldovan population [95, 96].

Abbreviations
BCTs: Behaviour change techniques; BCW: Behaviour change wheel; BMI: Body mass index; COM-B: Capability, opportunity and motivation; CVDs: Cardiovascular diseases; ENDS: Electronic nicotine delivery systems; GAS: Get Active Specialist; IDDEAS: Intervention design, development, delivery, evaluation and adoption strategies; JSNA: Joint strategic needs assessment; LMICs: Low-income and middle-income countries; MoHLSP: Ministry of health, labour and social protection; NCDs: Non-communicable diseases; NHS: National health service; NICE: National Institute for Health and Care Excellence; PHC: Primary healthcare; SDC: Swiss Agency for Development and Cooperation; Swiss TPH: Swiss Tropical and Public Health Institute; UK: United Kingdom; WHO: World Health Organization

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