## Closing the Gender Exercise Gap

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## Execurive summary

## It＇s time to Move Her Mind

In the largest global study of its kind on the gender exercise gap，this report presents data from 24，772 survey respondents and 26 focus groups across the world．Commissioned by ASICS and led by renowned academics Dr Dee Dlugonski and Dr Brendon Stubbs，the goals of this study were to identify exercise and sport barriers，motivators and facilitators for women and girls worldwide．We also wanted to explore the factors associated with lifelong exercise and sport participation for women across ages，activity levels and geographies．

## Key findings：

Women＇s physical activity levels are positively linked to their state of mind．The more women move，the better women feel． Women who report exercising regularly are happier，more confident and less stressed．
［解）$\{$ Y Yet around the world，over half of women are not exercising as much as they would like to and are losing out on the physical and mental health benefits．Employed women，mothers and homemakers were the least active groups of women，while students and retired women were the most active．
$51 \%$ of women reported decreasing or stopping exercise as they got older and all women were facing myriad universal challenges and barriers to exercise throughout their lifetime．

The most reported barriers were lack of time，other commitments and the cost of coaches or trainers．

Almost two－thirds of mothers cited motherhood as the primary reason they dropped out of doing regular exercise． Gendered expectations about caregiving and household responsibilities were also shown to negatively impact women＇s exercise levels．

Men＇s perceptions of the challenges women face were different．Men reported body insecurities，fear of harassment and fear of judgement as the top three exercise barriers for women．Only $34 \%$ of men recognised time as a barrier to exercise for women．

Over $80 \%$ of women endorsed intrinsic and health－related reasons for exercise including physical benefits，self－care，mental wellbeing，staying in shape，managing stress，feeling happy，and enjoying exercise／ sport．Very active women were more likely to report exercising because it was＇always part of their life＇（71\％）compared with inactive women（40\％）．Running and strength training were the most frequently reported types of activity across age groups，activity levels and regions．

Friends are women＇s most important exercise influencers in childhood and adulthood．Women are most motivated to exercise by those who are similar to themselves．

Actionable strategies to support lifelong participation in sport and exercise that were identified by focus group participants included：
－Creating accessible，affordable， safe and inclusive spaces for women within sport and exercise
－Educating everyone about the specific needs of girls and women
－Using visual representations of real women
－Challenging gendered expectations for girls and women

Thousands of individuals and grassroots organisations are already making an impact in communities around the world．They are actively dismantling barriers for women in sport，and their actions，big and small，are supporting more women and girls to move．

Now，we must collectively work together to use these key findings to implement changes and create a more inclusive and supportive environment for women to prioritise movement，so they can experience the physical and mental benefits of exercise．


Ever since I was young, I've been lucky enough to have a strong relationship with exercise and sport. Starting with simply playing outside as a child, through competitive sporting experiences, and then becoming a coach exercise has, for me, always been a natural part of life

But when I became a coach, I realised it wasn't the same for everyone, especially women. I started to see a difference in how men and women engage with sport and saw that not everyone had the same positive experience I've been privileged to have. It's why I've dedicated my academic career to understanding and promoting physical activity among women, children and families.

Movement is a human right everyone should be able to find time to take part in some form of exercise. Furthermore, countless research studies have shown that there are both physical and mental benefits from leading an active lifestyle.

## So why is there such

 a gender gap when it comes to taking part in physical activities or getting enough exercise? And, more importantly, how do we close it?
## It's time to

 understand what's holding women backAnd so, l've partnered with ASICS, and together, using science and research, we are looking to unearth the reasons for the gender exercise gap across the globe.

Of course, when we set out with this study, we knew the challenge would be complex. There are, after all, many contributing factors holding women back when it comes to exercise. But it's time we identify these factors so we can address them and start working on the solutions that will lead to change.


## In our mission, we've been dedicated to

> Applying a lifespan approach to our research, so we could understand early life factors that are likely to impact beliefs and behaviours into adulthood
> Discovering the barriers women face in finding positive sporting or exercise experiences
$>$ Exploring regional similarities and differences worldwide
> Using both quantitative and qualitative methods to capture broad perspectives (quantitative) and to truly listen to women's stories and anecdotes, giving them a voice as individuals who can be part of the solution (qualitative)
> Engaging with individuals, groups, communities and organisations to identify solutions that could be implemented at scale to work towards equitable exercise and sport opportunities that facilitate mental and physical health


Over the following pages, you will find the results of this study. I would like to share my thanks to every person who shared their perspectives. Whether taking part in the survey, participating in or chairing a focus group or spreading the word about the study, you have contributed to its success - and you have been invaluable in helping us on the path to driving change.

## What we did <br> 

The ASICS 2022 State of Mind Study uncovered a gender exercise gap, revealing that women, especially young women, are exercising significantly less than men. ${ }^{i}$

ASICS commissioned a study to better understand why and what can be done to help. The study, including all data collection and analysis, was led independently by Dr Dee Dlugonski, Assistant Professor at the Sports Medicine Research Institute, University of Kentucky, and was supported by Associate Professor Brendon Stubbs of King's College London. Both are world-leading researchers in movement and mental wellbeing.

We wanted the study to be broad, including women of all ages, from all regions and with varying degrees of activity. So, as well as comparing results by region or age, we also categorised participants into four activity levels: inactive, fairly active, active and very active women. We also wanted both genders involved - for women to share their own experiences and for men to share their perspectives on gender exercise inequality.

## We conducted our research via:



A global online survey (for quantitative insights)


Focus groups (for qualitative insights)


## 24,772 people

| > Australia | $>$ The Netherlands |
| :--- | :--- |
| $>$ Brazil | $>$ New Zealand |
| $>$ Canada | $>$ Saudi Arabia |
| $>$ China | $>$ Singapore |
| $>$ France | $>$ Spain |
| $>$ Germany | $>$ Thailand |
| $>$ India | $>$ Malaysia |
| $>$ Italy | $>$ UAE |
| $>$ Japan | $>$ UK |
| $>$ Korea | $>$ USA |



This makes it the biggest study of its kind. All focus groups were led by independent facilitators, including leading academics and industry experts.

Across our qualitative and quantitative research, ASICS asked participants to explore the barriers preventing them or women they know from regularly exercising, dropping out of exercise, maintaining exercise levels or from progressing in their sport. We also wanted to examine the facilitators, influencers and motivators that were already driving change, either encouraging more women to become active or supporting their existing participation in physical activity.


## The findings

## Women's physical activity levels and their state of mind

There is a direct link between women's levels of physical activity and their state of mind the more women exercise, the better they feel.

There was a positive correlation between physical activity levels and women's State of Mind scores, with more physically active women reporting higher scores. Conversely, the lower a woman's level of physical activity, the lower her State of Mind score.



Yet, around the world, over half of women are not exercising as much as they would like to, meaning they are losing out on the physical and mental health benefits.
Women reported feeling $52 \%$ happier, $48 \%$ more confident and $50 \%$ more energised when exercising regularly compared with when they were not exercising regularly. They also reported feeling $67 \%$ more stressed and $80 \%$ more frustrated when not exercising regularly.


## Universal barriers to exercise

## All women face barriers to exercise during their lifetime...

When we asked women and men to rank and share the barriers and challenges to exercise, we found that all women - regardless of age, location or activity level are experiencing myriad barriers that prevent them from exercising.


Not feeling fit or sporty enough
$42 \%$ of women felt they were neither fit nor sporty enough to exercise. While this feeling was most widespread among inactive women (59\%), it was still common among the fairly active ( $51 \%$ ), active ( $41 \%$ ) and very active (32\%) groups.

Lack of access to exercise equipment and/or spaces
$38 \%$ of women said that they lacked access to the relevant equipment or spaces to exercise, with younger women (45\%) representing the most common group to cite the issue.

## ...but men's perceptions are strikingly different

Men have a very different perspective of the barriers preventing women from exercising. When asked what they thought were the most common issues for women, only $34 \%$ of men responded with a lack of time despite three-quarters (74\%) of women citing the issue. Not only this, but 58\% of men thought body insecurities were the leading reason preventing women from exercising compared with only $36 \%$ of women. Of the top five barriers to exercise perceived by men, only one (cost) actually featured in the list of most common obstacles reported by women.

Lack of time


Men's thoughts

Body insecurities


Women's reality
 Women's reality

This indicates a disparity between men's perceptions and the daily reality felt by billions of women around the world. Men being more aware of the everyday challenges and barriers impacting women's activity levels may help them to better support the women in their life to exercise and, subsequently, help close the gender exercise gap.

'What makes it most difficult for me are the day-to-day obligations - it's the children, it's the house, the work; there's always a lot to do and I'm pushing it off for later, tomorrow I go, tomorrow I go and that tomorrow never comes. In short, I don't do it. I really want to do it, to incorporate this fitness side and do more exercises, but / can't.'

Focus Group participant - Latin America

## Lifelong experiences with exercise and sport

Women are dropping out of/decreasing exercise throughout adolescence and early adulthood with over half (50.7\%) of women reporting their exercise levels reduced as they grew up.


This drop-off rate is fuelled by gender expectations.

of women report decreasing or stopping exercise as they grow up, and all women face universal challenges to exercise throughout their lifetime.

Not having the time( $59 \%$ ) and work (35\%) were the two leading reasons for dropping out of exercise, highlighting how other commitments and women's careers are forcing them out of leading an active lifestyle. Additionally $12 \%$ of women also cited boys being given more sport opportunities than girls as a reason their activity levels decreased as they grew up. Focus group participants also spoke about the detrimental impact having negative or shameful sport experiences at school on their activity levels later in life.

Focus group participants frequently described societal expectations and gendered roles that played a crucial role in stopping exercise, particularly during the key career and childbearing years.

Women described how gendered stereotypes, including that women should bear the majority of childcare, family caregiving and household responsibilities, impact their levels throughout their lifetime.
'The message I got from my mom was... dad goes out and does his sports thing and my mom will do a videotape at home and then try all the diets.'


## Yet, women are

## breaking stereotypes

and empowering<br>themselves and others

Despite the countless barriers and challenges preventing women from leading an active lifestyle, our study showed that many women are exercising and empowering themselves and others to move more.

Globally, $65 \%$ of women report running, and $50 \%$ are strength training including a significant number of older women, $40 \%$ of whom are lifting weights, a sport traditionally dominated by men.

While the sample of those older or retired was relatively small, the study showed that on average, older and retired women are more active than their younger or employed counterparts. The study also found women aged 61 and over to be reporting the fewest challenges to leading an active lifestyle, owing to barriers such as work and other commitments often reducing with age, giving them more time to exercise.

 discovered that women have a wide range of reasons for engaging in exercise and sport. However, they are overwhelmingly more likely to exercise for their mind and body rather than aesthetics.

In fact, the most common reasons they gave for exercising were:


Physical health benefits


Self-care
benefits


Mental health benefits
'I remember vividly standing in the shower after that very first run, which blew my mind. I was like 'okay I need to do this again because it made me feel EPIC'. I was so proud of myself. I exercise for the way it makes my body FEEL rather than for any aesthetic reason.'

Focus Group participant - UK

More than $50 \%$ of women said they exercise to help manage their stress levels, feel happy, establish routine and structure, and improve their quality of sleep.

Why exercise?
Manage stress levels
Feel happy
Routine
Structure
Improve quality of sleep
Motivation for exercise tends to differ depending on a woman's current level of activity. We found that active women find a wider range of meaningful benefits than those who are less active. These benefits, in turn, could be why they are more likely to continue to exercising.

Having regular and positive experiences of exercise as a child was also a contributing factor to leading a physically active lifestyle later in life.

Older women who regularly exercise, for example, are more likely to report high levels of physical activity if it's something that has always been a part of their life, in contrast to inactive women (71\% versus $40 \%$ ).

Mental health issues and physical health scares were the life events most likely to result in women kick-starting new, regular exercise routines. This was the same across all ages and all regions. Furthermore, the study revealed that women who have maintained regular levels of physical activity throughout their life reported higher State of Mind scores compared with those who haven't.


## Supported by technology and meeting personal goals...

When it came to the impactful facilitators behind exercise, the study found that the following things encouraged women to embrace physical activity and/or kept them going:


Interestingly, all of On the flip side, workplaces and employers ranked the lowest when it came to exercise these facilitators were
universal across all Given this, and the finding that work and other commitments are often barriers to exercise, ages and all regions. employers could consider what more they could do to help encourage and facilitate movement during the working day. This is especially pertinent as, worryingly, employed women are the least physically active in comparison to women who are students, retired or self-employed.

## The importance of inclusion, acceptance and representation

## The cycle of low self-confidence must be broken

Women in the focus groups spoke about feeling unwelcome or intimidated, or how a lack of representation within the industry is fuelling a cycle of low self-efficacy (a lack of self-belief to achieve goals) and low self-confidence, further preventing them from taking up exercise.

Inactive women were particularly affected by these feelings, with almost half ( $45 \%$ ) saying they lack the confidence to exercise, while over a third (38\%) feel too intimidated to start.

lack the confidence to exercise

feel too intimidated to start

What's more, recollections of negative, intimidating or shameful experiences of exercise - such as its use as a form of punishment when growing up or having intimidating or unwelcome experiences in gyms - further fuelled this vicious cycle of confidence.

Participants in the focus groups criticised societal beliefs about being a beginner or stopping and starting exercise and sport throughout their lifetime.

We know that the more women move, the better
they feel. Yet, 45\% of inactive women say they lack the confidence to exercise.

'Some of my Singaporean
friends were maybe a little
bit chubby at school. So, at lunchtime, they were made to run around. The shame around that has been associated with exercise ever since. It makes it harder to get into it as an adult.'

Focus Group participant
Singapore

## This vicious cycle must be broken.

'Noone ever told me I could be average at sport. At school, noone was like, 'Oh, do this sport... it doesn't matter if you're not going to make the team'. So, I had that mentality of unless I'm gonna be competing at county level, there's no point picking this up. As a girl, you had to choose between being sporty or academic, boys managed to do both




























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Friends and women like
themselves are women＇s
biggest influencers．．． $\quad \begin{aligned} & \text { This is further supported by the } \\ & \text { numerous focus group participants } \\ & \text { who mentioned the vital impact of local } \\ & \text { grassroots organisations and individuals } \\ & \text { in encouraging and inspiring women of all } \\ & \text { ages and abilities to participate in exercise asked women to share their exercise } \\ & \text { or sport within their community．} \\ & \text { influencers，we found that in a society } \\ & \text { dominated by celebrity or influence culture，} \\ & \text { women are most likely to be influenced into } \\ & \text { taking up exercise or a new sport by those } \\ & \text { much closer to home－their friends．}\end{aligned} \quad \begin{aligned} & \text { Most common influencers on } \\ & \text { exercise or sports }\end{aligned}$


























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#### Abstract






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## 'A lot of races are for <br> professionals, but there could be ones with goals that are easier to accomplish. <br> Running is not all about the race.'

Focus Group participant - China



As you will have seen, the gender exercise gap is a complex challenge. It did not develop overnight, and it will not be solved with one single solution.


For me, the key takeaways from the study's findings are:
> No matter their age, an active lifestyle can lead to more positive mental wellbeing. We need to do more to support exercise and sporting opportunities for women at all phases of their lives.
> Regardless of their level of activity, women are facing barriers to being as active as they would like to be. Therefore, solutions need to support individuals across the full spectrum, from inactive people through to elite, professional athletes.
> Many women reported experiencing gendered expectations that impacted the time they had free to either exercise or play sport. Caregiving roles, such as caring for children, elders or conducting other household responsibilities, were particularly salient barriers reported by women in the quantitative and qualitative data.
> Friends, partners and parents have a significant influence on the amount (or lack) of exercise girls and women engage in during their everyday lives. Many said these relationships directly impact the amount of time they set aside for exercise, their attitudes towards exercise or their choice of sporting activity.

Ultimately, this study has provided significant insights for understanding the gender exercise gap. Conducting the study has shown the power of giving women a voice so we can understand the barriers that are holding them back from exercising as much as they would like. Further to that, it has given those who want to drive change an opportunity to come together as a group and use the insights to build the most effective solutions.

We all have a role to play in doing just that, and l've been overwhelmed by the number of people who have voiced their eagerness to be part of the solution.

So, now's the time to start making changes. It's time more women and girls experience the positive physical and mental benefits of exercise. Let's close the gap, together.

## Appendix: Methodology

## Study Background

Results from the ASICS 2022 State of Mind Index identified a gender exercise gap, with women, especially young women, exercising significantly less than men. ASIC commissioned the Move Every Mind study to better understand why the gap exists and to identify actionable strategies to close it. The study was led by Dr Dee Dlugonski, Assistant Professor at the Sports Medicine Research Institute, University of Kentucky, and was supported by Associate Professor Brendon Stubbs of King's College London. Both are worldleading researchers in movement and mental wellbeing.

## Purpose

The goals of this study were to 1) identify exercise and sport barriers, motivators and facilitators; 2) explore factors associated with lifelong exercise and sport participation for women across ages, activity levels, and geographies; and 3) understand women's positive and negative experiences with exercise and sport.

## Study Design

This mixed methods study included a global online survey (quantitative) and focus group interviews (qualitative). The online survey was delivered via Qualtrics. Focus groups occurred in-person or via video conferencing software. Focus group interviews were led by a member of the research team, leading academic or industry facilitators who received training from th research team. Data collection occurred from June 2023 through September 2023.

## Participants

Individuals who were at least 18 years of age were invited to complete the online survey regardless of their gender, age, geographic location or level of activity. Focus group participants were invited by facilitators, study partners or members of the ASICS team.
The final sample included 24,772 participants ( $\mathrm{n}=16,655$ female) who completed the global online survey and 187 focus group participants who were part of 26 focus groups. Individuals across more than 40 countries (including Australia, Brazil, Canada, China, France, Germany, India, Italy, Korea, Japan, the Netherlands, New Zealand, Saudi Arabia, Singapore, Spain, Thailand, Malaysia, United Arab Emirates, the United Kingdom and the USA).

## Online Survey

The survey was designed by highly experienced academics and has received ethical clearance from Kings' College London. It asked participants to select the gender they best identify with, from the options of 'female', 'male', non-binary/non-conforming', 'transgender' and 'prefer not to say'. This follows methodology that was recommended by the Pew Research Center, in which gender identity is used rather than assigned sex at birth.
16,655 of people who completed the survey identified as female - they are referenced throughout as women. 7,536 identified as male and are referenced as men. 129 respondents identified as 'non-binary/non-conforming' and 41 as 'transgender. Where their views have combined with those who identified as 'male', we have referenced the sample as non-female. The survey asked female participants to answer questions about their demographic characteristics (age, country of residence, employment, education and number of children), emotional and cognitive function, physical activity level (days physically active over the last week and minutes of physical activity per day) regular exercise participation (at least once week and minutes of physical activity per day), regular exercise participation (at least on
per week over the past year), satisfaction with current exercise levels, types of exercise per week over the past year), satisfaction with current exercise levels, types of exercise
and sport, reasons for stopping exercise as an adult and as a child/adolescent, reasons for participating in exercise or sport, barriers and facilitators to participation, and people who motivated or influenced you the most to do exercise or sport in childhood and adulthood Non-female participants were asked to answer questions about their demographic
characteristics, roles engaged with girls and women, perceptions of exercise and sport barriers for women, perceptions of the gender exercise gap and their role in closing the gap. Focus Groups
All focus group interviews were conducted using a standardised discussion guide that was developed by the research team. The questions were designed to explore participants' own ond the chall.

## closing the gender exercise gap.

## Measures - Female participants

## State of Mind Score

The ASICS State of Mind Score assigns a score of between 1-100, made up of 10 emotional and cognitive metrics: Composure, Resilience, Positivity, Contentment, Relaxation, Confidence, Alertness, Calmness, Focus and Energy. Participants completed 6 items about their emotional and cognitive function and 4 items about their mental ability over the last month on a scale from 1 (not at all) to 5 (average) to 10 (extremely). Scores were summed to create a total score ranging from 10-100, with higher scores indicating greater emotional, cognitive and mental ability.
Physical Activity
Participants were asked to report the number of days in the past week that they were physically active, defined as 'sustained movement that raises your heart rate, such as exercise or sport'. Participants who reported at least one day of physical activity were then asked to report the number of minutes per day of activity. These questions were previously used in the ASICS 2022 State of Mind Study. Weekly minutes of physical activity were calculated by multiplying the number of days of activity by the dally number of active minutes. Daily minutes of physical activity were truncated to 180 minutes. Participants were categorised into the following activity levels using weekly physical activity minutes: inactive (<30 minutes), fairly active (30-149 minutes), active (150-299 minutes) and very active (300+ minutes). Current Exercise
To assess satisfaction with current exercise levels, participants were asked, 'How satisfied are you with your current exercise levels?'. Possible responses included, 'I am doing as much exercise as I would like to do', 'I am doing too much exercise', 'I am not doing enough exercise' or 'exercise is not important to me'.
Regular exercise was measured with 1 item, 'Do you currently engage in exercise or sport regularly (at least once a week on average over the past year)?'. Participants who responded 'Yes' were asked to describe their participation as one of the following: 'I currently exercise regularly, but don't race or compete', 'I currently exercise regularly and used to race or compete', 'I'm a recreational athlete/sportswoman', 'I'm an amateur athlete/sportswoman' or 'I'm a professional athlete'. Participants who reported not currently engaging in exercise or sport regularly were asked if they had ever participated in exercise or sport regularly during their adult life. Participants who answered 'Yes' to this item were asked to describe their previous participation in exercise or sport using the options above.
Participants selected exercise and sports that they participated in from a list of 25 options and had the opportunity to write in any exercise or sport that was not included on the list. Lifetime Exercise/Sport Participation
Participants who reported engaging in regular exercise or sport at any point in their life were asked to identify 'Why they stopped exercising regularly/participating in sport' from a list of 16 reasons that inclucded lack of time, becoming a mother, starting work/changing jobs, injury, lack of funding or sponsorship, among others and also allowed participants to write in
other reasons. other reasons.

All participants were asked to respond 'Yes' or 'No to the following question, As you developed/grew up, did your level of exercise or sport decrease?', to identify individuals who had stopped or decreased exercise/sport during childhood or adolescence. Participants who responded 'Yes' were then asked to identify reasons for the decrease.
Survey respondents were asked to select up to three people who motivated or influenced them most during their childhood/adolescence. Then, participants were provided with the same list of individuals and asked to select up to three people who most influenced their current exercise or sport participation.
Reasons for Exercise
Participants indicated their reasons for exercising regularly by responding to 14 items on a 5 -point scale from 'Strongly disagree' to 'Neither agree nor disagree' to 'Strongly agree'. Sample items included 'to feel happy', 'to manage stress', 'because I enjoy exercise/sport' and 'to be social/part of a team'. Participants who somewhat or strongly agreed with an item were considered to endorse that reason for exercise.
Exercise Facilitators
Participants were presented with a list of 8 possible exercise facilitators that included 'having a coach/trainer', 'phone/app/smartwatch', 'workplace incorporating exercise into the working week/helping subsidise' and 'having access to local sports grounds/facilities/safe running trails'. Participants were asked to check all items that encouraged, motivated or facilitated their exercise.
Exercise Benefits
Exercise benefits were assessed by presenting participants with a set of 9 items and asking participants to first report how they felt when they have been able to exercise regularly and then to report how they felt when they were not able to exercise regularly using the same 9 items. Participants responded on a 5 -point scale from 'Strongly disagree' to 'Strongly agree Items included 'happy', 'confident', 'focused', 'stressed' and 'frustrated'.

## Exercise Barriers

To assess barriers to exercise, participants responded to 25 items about factors that had ever stopped or made it difficult to maintain exercise levels or to progress within their sport using a 5-point scale that ranged from 'Strongly disagree' to 'Strongly agree'. Sample items included too many other commitments, absence of the right kit, lack of access to relevant equipment or places to exercise', 'fear of harassment', 'lack of confidence', 'coaches/ trainers cost too much' and 'pressure to perform'. Participants who responded 'Somewhat' or 'Strongly agree' were categorised as reporting that exercise/sport barrier.

## Measures - Non-female participants

Survey participants identified all roles they held related to girls and women, e.g., sports coach, exercise trainer, teacher, married to, parent, sibling, etc.
Participants were then asked whether they found girls dropped out or stopped doing sport/ exercise as they grew up. Participants who responded 'Yes' were asked to identify reasons from a list that included the following items, 'they don't have the time', 'body insecurities', 'teachers don't encourage them', 'injury', etc.
Non-female participants were asked 'What do you think stopped/put women off from exercising' using the same list of barriers that were presented to female respondents on the same 5 -point scale. Participants were asked to respond 'Yes' or 'No' to 'Do you think you have a role to play in encouraging/supporting women to exercise regularly'. Participants who responded 'Yes' were provided with the opportunity to enter an open-ended response to What role do you think you can play?'.

