

The People's Trial: Supporting the Public's Understanding of Randomised Trials.

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Keywords: Randomised trial, public engagement, online, methodology

Posted Date: June 7th, 2021

DOI: <https://doi.org/10.21203/rs.3.rs-239598/v1>

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Version of Record: A version of this preprint was published at Trials on March 9th, 2022. See the published version at <https://doi.org/10.1186/s13063-021-05984-1>.

Abstract

Background

Randomised trials are considered the gold standard in providing robust evidence on the effectiveness of interventions. However, there are relatively few initiatives to help increase public understanding of what randomised trials are and why they are important. This limits the overall acceptance of and public participation in clinical trials. *The People's Trial* aims to help the public learn about randomised trials, to understand why they matter, and to be better equipped to think critically about health claims.

Methods

Using a reflexive approach, we describe the processes of development, conduct and dissemination of *The People's Trial*.

Results

Over 3000 members of the public, from 72 countries, participated in *The People's Trial*. Through a series of online surveys, the public chose the question *The People's Trial* would try to answer and decided the components of the trial question. In December 2019, 991 participants were recruited to a trial to answer the question identified and prioritised by the public, i.e., '*Does reading a book in bed make a difference to sleep in comparison to not reading a book in bed?*' We called this trial The Reading Trial.

We report processes of *The People's Trial* in seven phases, paralleling the steps of a randomised trial, i.e., question identification and prioritisation, recruitment, randomisation, trial conduct, data analysis, and sharing of findings. We describe the decisions we made, the processes we used, the challenges we encountered, and the lessons we learned.

Conclusion

The People's trial engaged members of the public successfully in the design, conduct, and dissemination of a randomised trial demonstrating the potential for such initiatives to help the public learn about randomised trials, to understand why they matter, and to be better equipped to think critically about health claims.

Trial Registration

The Reading Trial was registered 4th December 2019 on [ClinicalTrials.gov](https://www.clinicaltrials.gov), ID: NCT04185818.

Background

Randomised trials are an important research design in evaluating the effects of health interventions. They have the potential to provide reliable evidence to inform health decisions. While these are exciting

and challenging times for clinical trials, rising costs and regulations are making trials more expensive and complicated.

Substantial amounts of public and charitable funding are allocated to clinical research every year¹. There are, however, serious concerns that much of this is wasted². The reasons for this waste include failure to publish completed research, inadequate reporting of research and the development of new studies without placing them in the context of previous research addressing the same question^{2,3}. Also, inadequate recruitment and retention of participants to trials leads to waste due to trials not being able to provide sufficient high-quality evidence to answer the question for which it was designed^{4,5}. The inability to recruit enough participants to answer a trial question is one of the main reasons trials are discontinued or request extensions, with just over 50% of trials meeting their pre-specified recruitment targets^{5,6}.

It is important to understand why members of the public consider participating, or not participating, in a trial^{5,7}. A 2017 survey of over 12,000 members of the public, from 68 countries, including 2194 clinical trial participants, found that 84% of respondents perceived clinical research to be important, while 82% reported that they felt well informed about clinical research^{8,9}. However, more detailed results demonstrate that public knowledge of clinical research may be superficial, with 51% reporting that they do not know where research is conducted and 34% of respondents reporting that they don't know what percentage of medicines must be tested in clinical research studies before being sold to the public^{8,9}. Troublingly, the proportion of people 'very willing' to participate in a clinical trial was significantly lower (31%) than a similar survey conducted by the same group four years previously (50%)⁸. Respondents who felt informed about clinical research were more willing to participate in clinical trials. When asked how the public should be educated about the clinical research process, 35% of respondents proposed learning about clinical research through educational information on the internet⁸.

Fear and distrust of research have been described as barriers to public involvement in research¹⁰. This was found to be more common within underserved groups, such as ethnic minorities, with further systematic reviews highlighting mistrust in research as a barrier to recruitment of vulnerable populations^{11,12}. The findings of these reviews suggest that fear and mistrust of research are linked to a lack of knowledge and understanding of clinical research or the research process. While these reviews found that knowledge had a positive impact on recruitment to clinical research, they also highlighted that confusion or a lack of understanding around specific trial processes, such as randomisation, acted as barriers to recruitment, particularly in obtaining informed consent^{7,10,11,13}.

The evidence suggests a lack of understanding around what randomised trials are and why they are essential. This may negatively affect public support for, and participation in, clinical trials^{14,15}. A poor understanding of evidence may lead to public health risks such as the under, or over use, of medicines, uninformed health choices, and unnecessary human suffering¹⁶. Yet, to date, relatively few initiatives (i.e. The Informed Health Choices¹⁷, Just Ask 2020¹⁸) have been developed to support public understanding of randomised trials.

Aim

The *People's Trial* aimed to help the public learn about randomised trials, to understand why they matter, and to be better equipped to think critically about health claims.

Study design and setting

The People's Trial was an online trial, designed by the people for the people. Using a custom-built, online platform, it sought to involve the public in all steps of a randomised trial.

Theoretical perspective

The People's Trial embraced the concept of 'learning by doing'. It sought to enhance understanding of randomised trials by facilitating the involvement of the public in the trial research process. Malcolm Knowles' Theory of Andragogy informed the design of *The People's Trial*¹⁹. Andragogy focuses specifically on the ways adults learn. Knowles believed that adult learning should involve collaborative interactions, including the use of available resources. Knowles identified five assumptions that encourage successful adult learning (see table 1). These assumptions were incorporated into the design of *The People's Trial*.

Table 1: Malcolm Knowles' Theory of Andragogy five assumptions

Assumptions	
Self-Concept	Adult learners have an established sense of self-value and autonomy and benefit from active involvement in their learning.
Experience	Adult learners bring a lifetime of experience. To stimulate and maintain interest, participant's life experiences should be, engaged with, and connected to, during the learning process.
Readiness to learn	Readiness to learn stems from adult learners recognising and appreciating the intrinsic value of their newly acquired knowledge.
Learning orientation	Adults learn best through practical application or "learning by doing".
Motivation to learn	Adult learners are generally motivated to learn by internal factors (i.e. self-esteem and self-value) rather than external factors (for example a pay increase)

The team and working process

We conducted *The People's Trial* on a custom-designed, online platform (www.ThePeoplesTrial.ie). We divided the trial into seven phases, paralleling the process of a randomised trial, i.e., (i) question identification (ii) question prioritisation and selection, (iii) determining how we would answer the trial question, (iv) recruitment and randomisation, (v) trial conduct, and data analysis, (vi) developing a dissemination strategy, and (vii) dissemination of trial findings. Doing so would, we felt, opens the trial methodology process to the public. We used plain language text in all communications to maximise the

accessibility of the trial to the public. We produced a series of animated whiteboard videos for each phase. These animations explained each step of the trial process as it progressed and were narrated by researchers, clinicians, and members of the public. All were designed and produced to be accessible and engaging.

During each phase of *The People's Trial*, we collected and reported website analytics, media, and social media metrics. Our hosting platform captured survey participation metrics.

We established a Steering Group of trialists, methodologists, statisticians, clinicians, research communicators and members of the public to oversee *The People's Trial*. Collectively, this group supported the methodological decisions and processes of the trial with a priority focus on ensuring public involvement in the trial processes from question identification and prioritisation to dissemination of trial findings

Participants

Participants in *The People's Trial* were 18 years of age or over. As we were unable to offer a translation service, participants also needed to be able to communicate in English and give written informed consent.

Procedures

Pre-launch

We used social media campaigns to create awareness of *The People's Trial*, highlighting the motivation behind the trial. We promoted *The People's Trial* through engaging custom-designed [animations](#), which guided the public through the framework and objectives of the trial, highlighting the opportunity for shared learning. We also targeted national media (radio, newspaper, and TV networks) with press releases promoting *The People's Trial*. During this time, *The People's Trial* website introduced the public and participants to members of the Steering Group and the collective expertise they brought to the project.

In preparation for the trial launch, we provided accessible, exemplar questions that trials could answer and would be familiar with a broad public audience, such as, 'Does *eating cheese cause nightmares compared to not eating cheese?*' We explained that only fun, accessible questions would be accepted to ensure the trial was accessible to all members of the public and would be safe.

Baseline data

We invited members of the public to participate in each phase of *The People's Trial* independently. The public could take part in some, or all of the phases, as they wished.

We invited participants to read an information leaflet about the study and sought their consent to participate through an online form. We also asked each participant to provide baseline data on whether

they worked in healthcare or health research, what their understanding of randomised trials was before taking part in *The People's Trial*, and their age and gender.

Phase one - All good trials start with a good question

In phase one, we invited the public to submit a question they would like *The People's Trial* to tackle using a randomised trial design. We asked the public to submit their question on a QuestionPro® form embedded on *The People's Trial* website. We structured the form, and gave examples, using the framework of intervention, comparator, and outcome (Figure 1). An [animated video](#) offered further insights into what makes a good research question and why this process is important.

Phase two - A good question is one that people want to know the answer to

During phase two, we developed two surveys to investigate how little, or how much, the public liked each question submitted in phase 1.

Two steering group members reviewed all questions submitted in phase 1. A third member reviewed questions where an initial consensus on inclusion was not reached. If necessary, these questions were discussed further by the Steering Group. We excluded questions where the outcome was a health outcome requiring medical assessment and questions that targeted participants with a medical condition. We provided specific feedback on the reasons why a question was not included and posted this information on *The People's Trial* website. During this phase, we also introduced the concept of research waste and the potential cost and ethical implications associated with it.

Survey 1

Using a three-point sliding scale ((i) *No thanks, I'm not interested in us answering this question*, (ii) *I'm not sure*, and (iii) *Yes please, I'm really interested in us answering this question*) participants indicated how interested they were in answering each question. We then ranked questions based on these preferences. Using this method, the public selected the top ten most popular questions.

Survey 2

In survey 2, using a click and drop method, members of the public ranked the top ten questions in order of preference (question ranked number 1 = most favourite, and question number ten = least favourite)

Using this online iterative process, the question chosen by the public for *The People's Trial* to tackle was:

'Does reading a book in bed make a difference to sleep in comparison to not reading a book in bed?'

Phase three - We have our question... Now it's time to think about how we'll answer this question.

In phase three, we asked the public to determine the characteristics of the intervention (reading a book in bed), the comparator (not reading a book), and the outcome (sleep). For example, we asked the public to

decide if trial participants should 'Have the use of electronic entertainment or communication devices (e.g. mobile phones /tablets) in bed?', 'Go to bed and wake up at the same time as they normally would?' and 'Sleep in their own bed, in their own home, for the study duration'. We also asked the public to tell us how they felt we should measure the outcome of 'sleep'. Again, an animated [video](#) described the importance of this step in trial design.

Through this process, the public defined the intervention and comparator and decided that the primary outcome should be an evaluation of overall sleep quality, with daytime sleepiness and sleep disturbance assessed as secondary outcomes.

Phase four - Being a bit random– deciding who gets what in the trial?

In phase four, we invited the public to take part in *The People's Trial* randomised trial, which we called 'The Reading Trial'. We recruited members of the public, 18 years of age or older, to take part in the trial through a social media campaign. After they provided consent, participants clicked a button to self-randomise to either the intervention or the control group using a custom-built, randomisation tool, developed by Metaxis Software design ® embedded in *The People's Trial* website. An engaging, animated [video](#) explained 'randomisation', and why it is important in clinical trials.

Phase five - Does reading a book in bed make a difference to sleep?

During phase five, we conducted 'The Reading Trial', an online, parallel group, randomised trial, designed by the people, for the people. Participants self-randomised and were allocated in a 1:1 ratio, to the intervention group (reading a book in bed) or the control group (not reading a book in bed). We registered the 'Reading Trial' before recruitment of the first participant (registration number: NCT04185818).

Phase 6 - Reporting what we found

Funders and regulatory bodies require that trial results are made available to all stakeholders in a timely and accessible manner. An effective dissemination strategy leads to an increased awareness of the research being undertaken, promotes discussion, and highlights potential health benefits to stakeholders. Also, accessible and usable reporting of trial results increases the value and minimises avoidable research waste. However, most research dissemination is typically limited to academic and professional journals, which the public may not have access to or even be aware of. To ensure our trial results were accessible to the general public, our target audience, we used an online survey to ask participants of 'The Reading Trial' to rank in order of importance how and where they would like to see the results of the trial publicised.

Phase 7 – So what have we learnt?

During this phase, we reported the findings of 'The Reading Trial'. The dissemination strategy used was directly informed by the results of the phase 6, online survey. The trial report is available here (note to the

editor, the 'Reading Trial' report accompanies submission of this paper for consideration as a pair of papers for simultaneous publication).

Results

The People's Trial was conducted, between April 2019 and November 2020. Over 3000 members of the public, from 72 countries, took part in *The People's Trial* (Figure 2). Participants were invited to take part in each phase independently, meaning that individuals could participate in more than one phase, indeed this was encouraged.

Phase one

During phase one, the public submitted 155 potential questions for *The People's Trial* to answer. Almost half (n=67, 43%) of participants in this phase described themselves as having 'none' or 'some' understanding of randomised trials before taking part in *The People's Trial*.

Phase two

In phase 2, we reviewed the 155 questions submitted by the public during phase 1. We excluded 99 questions where the outcome was a health outcome requiring medical assessment and questions that targeted participants with a medical condition. We also merged similar questions where possible. This process produced 41 questions. We prioritised the questions in two surveys.

Survey one

During survey one, 253 participants selected their top ten favourite questions from these 41 questions (see supplementary file 1). This survey found that the question '*Does reading a book in bed make a difference to sleep in comparison to not reading a book in bed?*' was rated highly by participants, with 59% (n=117) reporting that they were 'really interested' in answering the question.

Survey two

During survey two, 505 members of the public ranked the top ten questions in order of preference (Table 2). The question ranked number one by the largest percentage of participants (19%, n= 97), was '*Does reading a book in bed make a difference to sleep in comparison to not reading a book in bed?*'

This was **the** question *The People's Trial* tackled.

Table 2: Top ten questions chosen by the public

Rank	Percentage of votes received	question
1	19%	Does reading a book in bed make a difference to sleep in comparison to not reading a book in bed?
2	14%	Does using a mobile phone before sleeping make a difference to sleep quality in comparison to not using mobile phone before sleeping?
3	12%	Does doing daily crosswords or puzzles make a difference to your memory in comparison to not doing daily crosswords or puzzles?
4	10%	Does exercising right after waking up make a difference to productivity at work in comparison to not exercising right after waking up?
5	10%	Does eating breakfast make a difference to concentration in the mornings in comparison to not eating breakfast?
6	9%	Does not viewing social media make a difference to short-term mood in comparison to viewing social media?
7	9%	Does going for a walk outside at lunchtime make a difference to concentration in the afternoon in comparison to not going for a walk at lunchtime?
8	6%	Does light exercise in the evening make a difference to sleep quality in comparison to no exercise in the evening?
9	6%	Does outdoor exercise make a difference to short-term mood in comparison to indoor exercise
10	5%	Does spending time outdoors make a difference to short-term mood in comparison to not spending time outdoors?

Phase three

During phase three, we asked the public to consider how we could answer this question. Following a broad media campaign including social media, traditional print media and national radio stations, 403 members of the public responded to our online survey to determine the characteristics of the intervention (reading a book in bed), the comparator (not reading a book in bed), and the outcome (sleep).

The public decided that participants randomised to the intervention group (reading a book in bed) should:

1. Read a book immediately before trying to go to sleep
2. Read for 15-30 minutes
3. Go to bed and wake up at the same time as they usually would
4. Not eat food or drink caffeinated drinks within 1 hour of going to bed
5. Sleep in their bed, in their own home.

This should be done for the study duration (7 nights).

Similarly, participants in the control group (not reading a book in bed) should:

1. Go to bed, and wake up at the same time as they normally would
2. Not eat food or drink caffeinated drinks within 1 hour of bed.
3. Sleep in their bed, in their own home, for the study duration (7 nights).

However, as the control group, these participants should **not** read a book immediately before trying to go to sleep.

The public also decided that participants in both groups could use electronic entertainment or communication devices (e.g., mobile phones /tablets) in bed for participants in both the intervention and control groups.

The only difference between the intervention group and the control group was reading a book in bed for the study duration (7 nights).

Phase four

Between 4th December 2019, and 31st December 2019, 991 people agreed to take part in The Reading Trial. Of these, 496 (50%) were allocated by chance to the 'intervention' group (reading before sleeping) and 495 (50%) to the control group (not reading before sleeping).

Although 564 participants were required to achieve a priori sample size, the primary aim of *The People's Trial* was to help the public learn about randomised trials, so we continued enrolment after this sample size was achieved.

The reading trial had an attrition rate of 21.9% (n=217). Of those that didn't finish the study, 127/496 (25.6%) were in the 'intervention' group (reading a book before sleeping) and 90/495 (18.2%) in the control group (i.e. not reading a book before sleeping).

However, 774 people (369 (47.7%) people in the intervention group and 405(52.3%) in the control group) from 43 countries reported outcomes (Figure 3).

The two groups were, on average, similar in baseline characteristics. Also, participants in both groups reported similar sleep quality at the beginning of the trial (Table 3).

Table 3. Summary statistics for participant characteristics at the start of 'The Reading Trial'

People who took part in The Reading Trial	Reading Group (n=369) n(%)	Not Reading Group (n=405) n(%)
Age:		
• 18 - 24 years	21 (6%)	28 (7%)
• 25 - 44 years	193 (52%)	209 (51%)
• 45 - 64 years	123 (33%)	145 (36%)
• 65 years and over	32 (9%)	23 (6%)
Gender:		
• Female	289 (78%)	325 (80%)
• Male	75 (20%)	78 (19%)
• Prefer not to say/ self-describe	5 (1%)	2 (0.5%)
Understanding of randomised trials:		
• Good understanding	251 (68%)	278 (69%)
• Some understanding	101 (27%)	105 (26%)
• No understanding	17 (5%)	22 (5%)
Healthcare background:		
• Healthcare	238 (65%)	269 (66%)
• Not healthcare	131 (34%)	136 (34%)
Sleep Quality at the start of the trial:		
• Terrible	7 (2%)	6 (1%)
• Poor	51 (14%)	51 (13%)

• Fair	175 (47%)	181 (45%)
• Good	115 (31%)	152 (37%)
• Excellent	21 (6%)	15 (4%)

Data are numbers of people (%)

Phase five

The reading trial found that reading a book in bed before going to sleep improved sleep compared to not reading a book in bed before going to sleep. In the intervention group, 156 (42%) people reported an improvement to their sleep quality compared to 112(28%) people in the control group, a difference of 14% favouring the intervention group. Considering the uncertainty in this estimate, we calculated that the difference in the population is likely to be between 8% and 22%, favouring those on the intervention. The full results of The Reading Trial are reported separately as a plain language trial report. [note to editor/reviewers, please see linked paper].

Phase six

During phase 6, 612 participants, from 47 countries, told us where and how they would like the results of The Reading Trial publicised (Figures 4 & 5). Most people chose to have the trial results displayed visually or published as a plain-language summary (Figure 5). The public indicated they would like to see the results displayed on *The People's Trial* website and publicised through social media campaigns (Figure 4). The findings of this online survey informed *The People's Trial* dissemination strategy, which includes a plain-language report, the publication of all trial results on *The People's Trial* website visually, through graphs, an animated short video, and an audio blog. Access to individual predictive results using a custom-designed nomogram, embedded on *The People's Trial* website is in development and will be available to all on the website.

The People's Trial website (www.thepeoplestrial.ie) has recorded 9,552 unique users, with 15,258 sessions and 25,382 page views to date.

Visitors to the site were predominantly from Ireland (35%) and the UK (35%) (See Table 4). Overall, 46% of site users were female, and 54% male.

Table 4. *The People's Trial* website demographics

Country	Number of unique visitors to www.Thepeoplestrial.ie
Ireland	3205 (35%)
United Kingdom	3198 (35%)
United States of America	376 (4%)
France	308 (3%)
Australia	246 (3%)
Germany	232 (3%)
Canada	231 (3%)
Russia	101 (1%)
India	79 (0.86%)
Spain	78 (0.85%)

While *The People's Trial* website attracted users from all age groups, 61% were between 18 and 34 years, with just 6% of users age 65 or older (Figure 6).

Social media was the principal method of advertising for *The People's Trial*, with 39% of new users accessing *The People's Trial* website directly from social media platforms. During the recruitment phase of The Reading Trial (December 2019), *The People's Trial* Twitter account achieved 197k Twitter impressions, with 3029 profile visits and 275 mentions. Traditional media sources were also utilised to promote the trial, incorporating press releases, blogs, and interviews with members of the steering group on national radio stations.

Continued Accessibility

The People's Trial website (www.ThePeoplesTrial.ie) is maintained as a live site with unrestricted, public access to review all steps of the trial. All educational tools, such as the animated explanatory videos, are maintained on this site and *The People's Trial* YouTube channel, and are free to use.

Discussion

While clinical trials are not unusual, and there have been initiatives which aim to educate members of the public about randomised trials, such as the 'Understanding Clinical Trials' programme funded by CISCRP, or the 'Wellcome Monitor', funded by the Wellcome Trust, we believe *The People's Trial* is unique in its active involvement of the public in creating the steps of the trial process from identifying and prioritising the trial question to trial conduct and dissemination^{20,21}. *The People's Trial* offered members of the public the opportunity to take part in and learn about randomised trials in an accessible, online environment. The trial supported a shared learning experience for participants and researchers, where

members of the public were supported to learn about randomised trials through active participation in all trial processes and researchers learned how public participation could inform and improve trial processes. This project demonstrates a public willingness to access and engage with learning and knowledge on trial methodology. *The People's Trial* also highlights the role of social media in promoting clinical trials and their processes within the broader public arena. While an online trial supports accessibility and inclusion, it was not without its challenges, primarily because of the nature of *The People's Trial*. *The People's Trial* began as a concept, which required the active participation of members of the public to develop. When designing *The People's Trial* website, the steering group did not know the trial question, and therefore the intervention, comparator, outcome, sample size, etc. were all unknown. The team, including our web development team, had to respond organically, and promptly, to the trial needs as it progressed. To minimise the risk of project slippage, we engaged experienced web designers and volunteer testers to ensure all aspects of the online trial were fully functional before releasing each phase to the public. To further promote inclusion, the website design was optimised specifically for members of the public participating on mobile phones.

Due to budget constraints, a significant limitation of the trial was the exclusion of individuals not competent in the English language. While we would like to see this limitation addressed in future trials, all members of the Steering Group worked to ensure the language used throughout *The People's Trial* was accessible, appropriate, and relevant, albeit in English only.

A significant unforeseen challenge to *The People's Trial* was the current COVID-19 pandemic. Although the trial conduct and data collection were completed before the onset of the pandemic, the publication of the results of 'The Reading Trial', and the invitation to participate in the evaluation survey was delayed. The delay was primarily due to the re-assignment of the research team to research projects focused on the coronavirus pandemic.

Conclusion

To be effective, clinical trials need participants, but recruitment and retention continues to be challenging with almost half of all trials not meeting their target sample size⁶. The evidence suggests that knowledge of trials and why they are important has a positive impact on recruitment to clinical research²². While confusion and a lack of understanding of clinical trials has been shown to have the opposite effect^{7, 10}. This paper describes the process of developing and conducting a novel, online initiative to potentially address these challenges.

In a time where the public is actively seeking information on trials and research methodology through online platforms, *The People's Trial* offered the possibility of opening trial processes to a broader audience. The public's views on trial design and the acceptability of trial processes have been underrepresented in research to date.

With over 3000 members of the public participating, from 72 different countries, The People's Trial demonstrates the potential for public participation to inform and improve randomised trial processes, while also providing an opportunity for shared learning. The People's Trial offers important insights for researchers on public involvement in designing trial processes. Using innovative, novel methods, it successfully engaged the broader public in planning, designing, conducting, and reporting a randomised trial.

Declarations

Ethical approval and consent to participate

The People's Trial received ethical approval from the NUI Galway Research Ethics Committee (Reference Number: 19-Mar-09). Informed consent was obtained from all participants prior to their involvement in the study.

Consent for publication

Participant information sheets, approved by the Research Ethics Committees, advises participants that the results of The People's Trial will be submitted for publication in a scientific journal. Participants acknowledge that they have read and understood the contents of the Participant information sheets when consenting to participate in The People's Trial. Participants will not be identified in any reports or publications.

Availability of data and materials

All data and materials is available from the corresponding author on reasonable request.

Competing interests

The authors declare that they have no competing interests

Trial Funder

This research was funded by the Health Research Board in Ireland, through the Health Research Board – Trials Methodology Research Network as part of a Knowledge Exchange and Dissemination Scheme Award (grant reference KEDS-2018-012) 2018. The funder of the study had no role in the study design, data collection, data analysis, data interpretation, or writing of the report. The corresponding author had full access to all the data in the study and had final responsibility for the decision to submit.

Trial sponsor

The National University of Ireland Galway, University Road, Galway, Ireland H91 TK33. The sponsor has no role in study design, data collection, interpretation or dissemination of findings.

Trial registration

The Reading Trial was registered on 4th December 2019 with [ClinicalTrials.gov](https://clinicaltrials.gov/ct2/show/NCT04185818?cond=Citizen+Science%3A+The+People%27s+Trial%3A&draw=2&rank=1), ID: NCT04185818. (<https://clinicaltrials.gov/ct2/show/NCT04185818?cond=Citizen+Science%3A+The+People%27s+Trial%3A&draw=2&rank=1>). The study adheres to CONSORT guidelines for randomized trials.

Acknowledgements

The People's Trial team members acknowledge with gratitude the study participants. We would also like to acknowledge and thank Simone Lepage, Aoife O'Shaughnessy and Louise Foley for their support with the research project. We would also like to thank Rob & Paul Digital Design™, Galway, Ireland for their support throughout The People's Trial.

Authors' contributions

EF is a researcher and midwife and is responsible for the study development, ethical approval, conduct, analysis, trial report writing and revision. DD is the Principal Investigator of The People's Trial. DD is a midwife with training in biostatistics and trial methodology. DD is responsible for the study development, ethical approval, conduct, analysis, trial report writing and revision. AOB is a researcher and social scientist specialising in online public engagement. AOB provided support to all aspects of The People's Trial design, conduct and analysis. AOB also offered expertise in the development of the trial communication and dissemination strategies, and preparation and revision of the trial report. ST is a health services researcher specialising in trial methodology. ST offered methodological support to The People's Trial design, conduct and analysis, including the development of communication and dissemination strategies, an online-animated educational video and the preparation and revision of the trial report. JN is a biostatistician whose primary areas of research are in the theory and application of statistical methods in clinical trials of health service and population health interventions and in the development of novel analytic approaches in Sports and Exercise Science. JN expertise supported The People's Trial design, data analysis, the development of dissemination strategies and the preparation and revision of the trial report. PW is a neuropsychologist, specialising in clinical research using the Internet. PW offered methodological support on the trial design and conduct, including the development of an online-animated educational video, communication and dissemination strategies and the preparation and revision of the trial report. SC is a Knowledge Broker at Cochrane UK, focused on disseminating Cochrane evidence through social media, with a particular interest in making evidence for patients and others making health choices, and healthcare professionals, quick and easy to understand and use. SC's expertise supported the design, conduct and reporting of The People's Trial, supporting the development of website and social media communications, and the preparation and revision of the trial report. SG is a scientist and Programme Manager for the Health Research Board – Trials Methodology Research Network (HRB-TMRN). SG's interests lie in developing trial methodology research. SG provided methodological support for The People's Trial design and conduct. In addition, SG supported social and mainstream

media promotion of the trial and the preparation and revision of the trial report. PH is a researcher, lecturer, registered nurse and midwife, with expertise in evidence synthesis and trial methodology. PH supported the trial design and conduct, the development of the dissemination strategy, and the preparation and revision of the trial report. LB is a midwife, lecturer and qualitative researcher, whose recent projects seek to help children, and ultimately the public, to undertake and understand trials. LB offered qualitative expertise in developing the trial design, and conduct of our study. LB also offered support on the preparation and revision of the trial report. HG is a researcher whose interests lie in supporting accessibility, inclusivity and diversity in science, with recent projects focused on improving efficiency in clinical trial recruitment. HG provided support for The People's Trial design and conduct, including the development of an online-animated educational video, the trial communication and recruitment strategy, and the preparation and revision of the trial report. KG is a health services researcher specialising in trial methodology. KG research interests lie in exploring recruitment to clinical trials, and how the results of trials are communicated. KG provided methodological expertise to The People's Trial design, conduct and analysis including supporting online communication and dissemination strategies. In addition, KG supported the preparation and revision of the trial report. AKS is an Information Specialist whose research interests lie in the development and implementation of crowdsourcing in health evidence production. AKS expertise supported The People's Trial design, conduct and analysis, and the development of public and participant communication strategies. In addition, AKS supported the preparation and revision of the trial report. KD is a PhD fellow in the School of Mathematics, Statistics & Applied Maths, NUI Galway. KD offered support in statistical analysis for The People's Trial. MFOR interests lie in enhancing healthcare delivery and improving patient care and service delivery. As a PPI representative, MFOR supported the design and conduct of The People's Trial including the preparation and revision of the trial report.

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Figures

I would like to find out if:
Eating cheese (*the thing you'd like to test*) makes a difference to
having nightmares (*the thing you'd like to affect or change*) in comparison to
not eating cheese (*the thing you'd like to be the comparison*)

Figure 1

Exemplar question

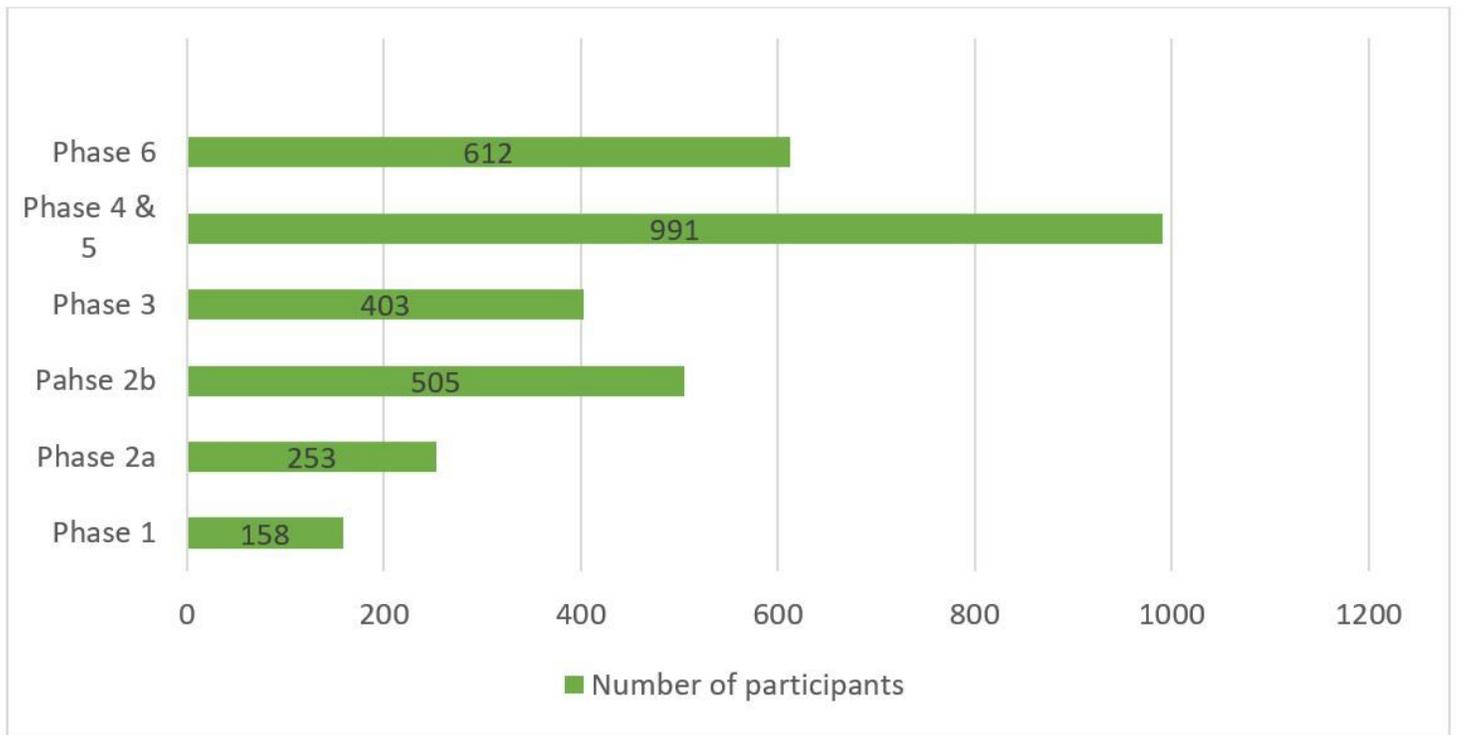


Figure 2

The People's Trial participant numbers by phase

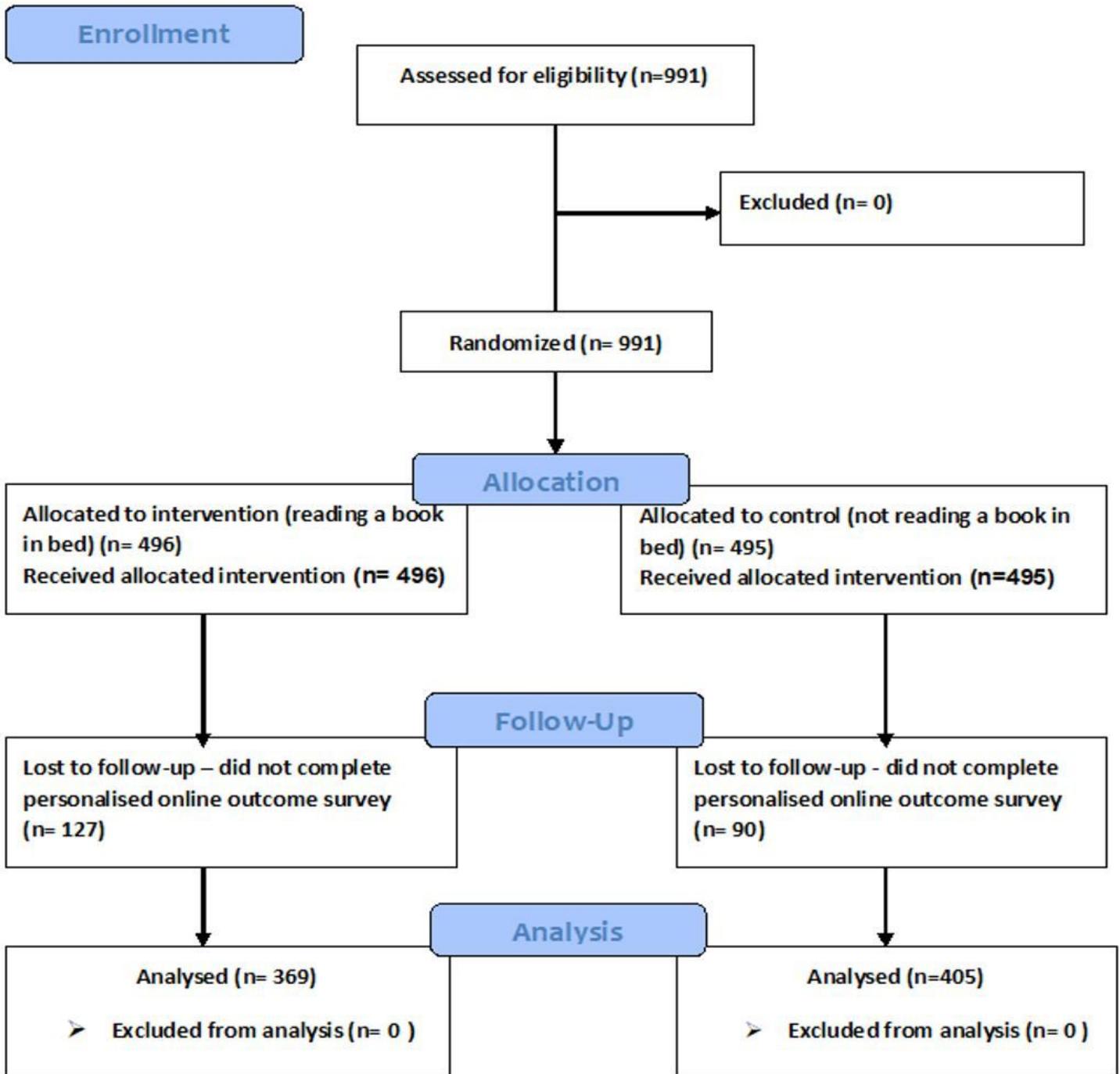


Figure 3

The Reading Trial Consort flow diagram

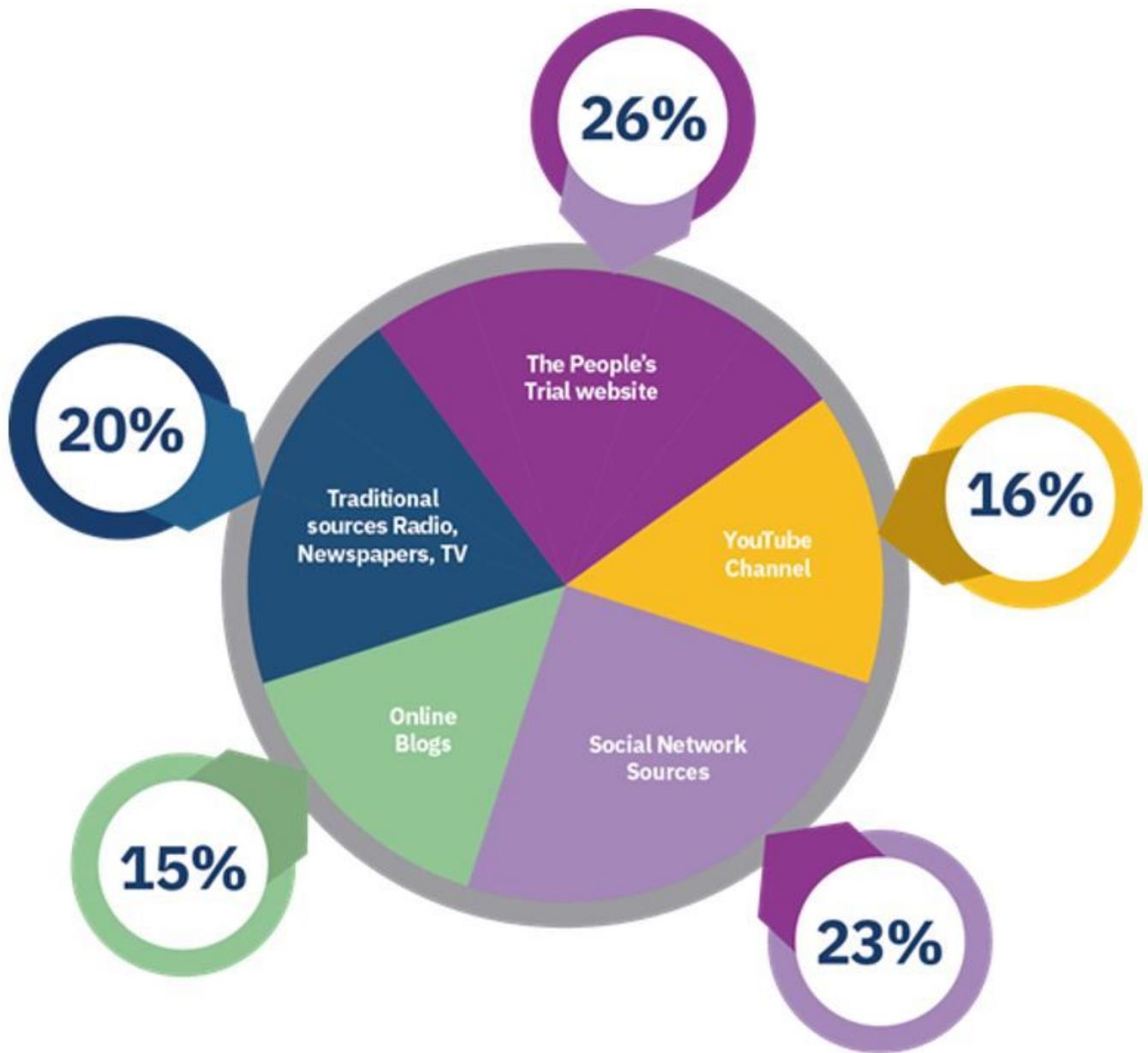


Figure 4

Where the public want the results disseminated

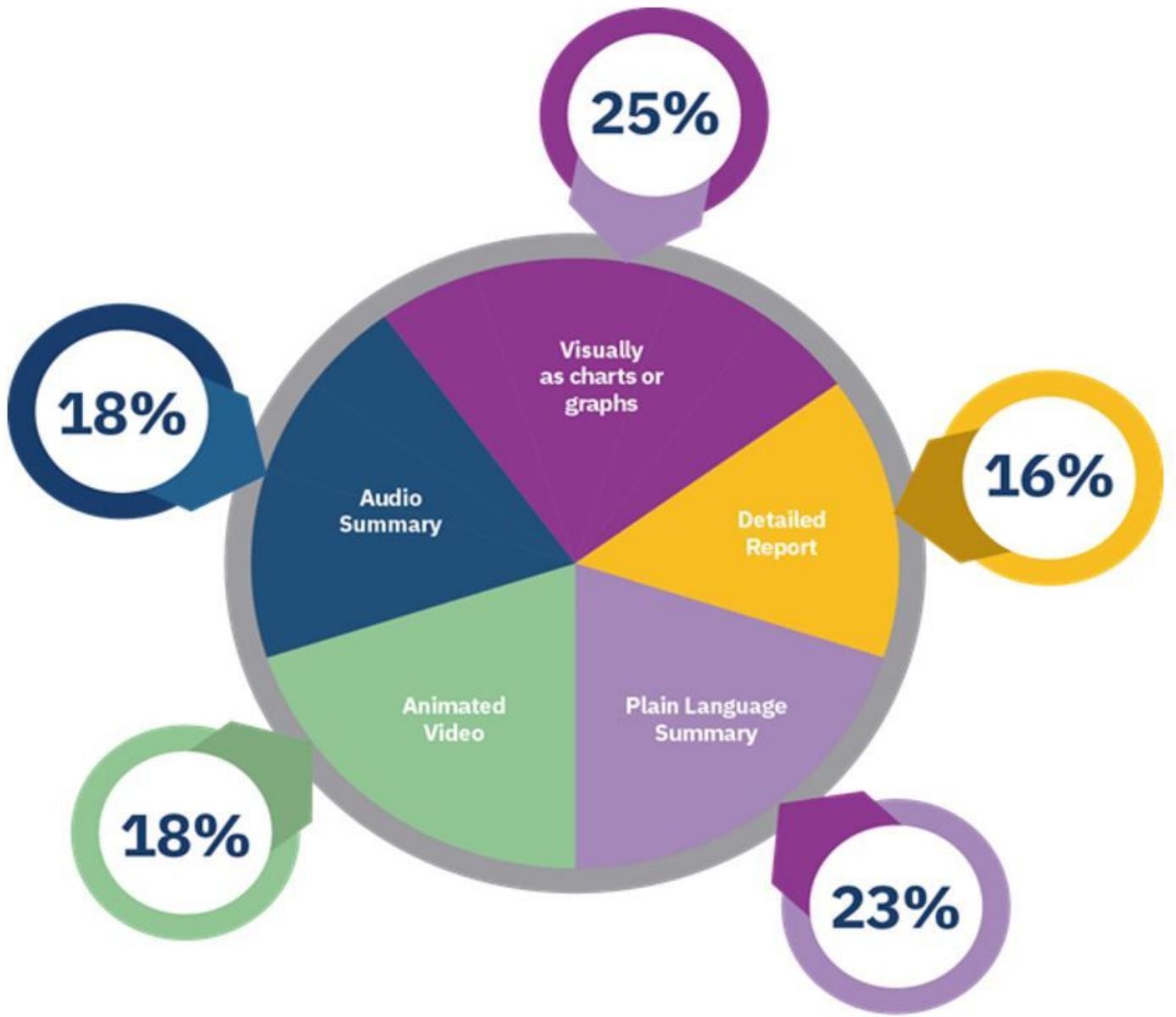


Figure 5

How the public want the results disseminated

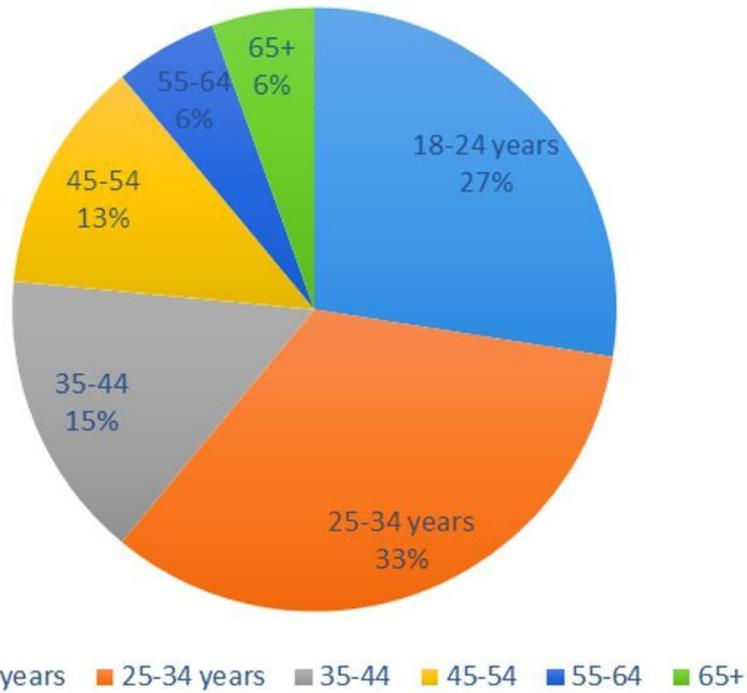


Figure 6

Age profile of website users

Supplementary Files

This is a list of supplementary files associated with this preprint. Click to download.

- [TPTQuestionssubmittedbythepublic.docx](#)
- [TheReadingTrialCONSORTFlowDiagram2021.doc](#)