First of all, we would like to thank the recommender and the referees for their detailed reading and the thoughtful comments on the previous version of our work. We were happy to read that the recommender and the referees think our paper addresses an interesting topic. We did our best to take their comment into account when revising our pre-registered report. Most, if not all, comments were justified and we believe that the report improved during the process.

In the following pages, the italic paragraphs are copy-pasted from the reports, our answers are displayed in normal font.

Please note that the version that track the changes made on the manuscript is available here:

https://osf.io/cafyv/?view_only=66eab29c7acb4aebbce4631eb9217

General comments.

Several questions were raised in the reports regarding the validity of our instruments and tests. To address some of those concerns, we decided to run a pilot session with medical students (who almost completed their studies to become doctors, i.e., who already spent between 6 and 8 years at the University). The board of students of the University of Nantes forwarded our invitation to participate in an online survey to all students enrolled for the 7th to 9th year of study. In total, 28 students completed our survey. We briefly present in the paper the data from this pilot session. In the new version of the manuscript, we have used those data to test the validity of our dependent variables and to calibrate our power analysis. We emphasize that this sample of students is very likely to be more vegan-friendly than the average doctor in exercise as they are younger than the doctor population. Although we did not collect individual data like gender, we also expect the participants in the pilot survey to be more female. Altogether, we expect young and female doctors to be more supportive of plant-based diets than the general population of doctors. These pilot data are thus likely to overestimate the level of support for vegan diets compared to the population of doctors.
A major change in our RR concerns the statistical tests. In the original version, we proposed one-sided Wilcoxon rank-sum tests to determine whether the information campaign was successful in improving the views and the practice of doctors with respect to vegan diets. We decided to change and to use a Tobit model to test our null hypotheses for several reasons. (We also decided to stick to a frequentist approach as we have more robust expertise with these methods.)

There are two main concerns that the Wilcoxon rank-sum test was not able to address. First, it appeared (from the paper that the recommender suggested us to read) that we should not only be interested in whether the campaign has a positive impact but whether the impact of the campaign is larger than a smallest effect size of interest (SESOI). However, the effect size in a Wilcoxon rank-sum test corresponds to a rank biserial correlation, which cannot be directly compared with a SESOI on the absolute scales. So, if we are interested in comparing the estimated impact of the campaign with an effect size on the scale of the outcome variables, the Wilcoxon rank-sum test is a poor choice.

Second, the recommender and one reviewer were concerned by the fact that we did not consider the information conveyed by the data in case we were not able to reject $H_0$. We agree with their point and now propose to proceed in two steps. The summary of our decision process is described in the Figure below. We also added the following paragraphs in the main body of the paper:

Hypothesis testing for the PMPI and VPI will be performed as presented in Figure 2 (for which we expect an increase in the scores). Hypothesis testing for the VDI is reverted (for which we expect the campaign to decrease the score). Using the estimates of the Tobit (or OLS) estimation, we will perform unilateral hypothesis testing to determine the impact of the information campaign. First, we will test whether the treatment effect is smaller than the SESOI (i.e., $H_0^1$: $\beta \leq \pi$). If we reject $H_0^1$, we will conclude that the information campaign is successful ($\beta > \pi$). If we are unable to reject $H_0^1$, we will test the reverse hypothesis, i.e., whether the treatment effect is larger than the SESOI (i.e., $H_0^2$: $\beta \geq \pi$).

On the one hand, if we reject $H_0^2$, we will have confirmation that the treatment effect is smaller than the SESOI ($\beta < \pi$). We will then test whether the treatment effect is greater than zero (i.e., $H_0^3$: $\beta \geq 0$). If we reject $H_0^3$, we will conclude that the information campaign is a failure as the treatment effect is negative ($\beta < 0$). If we are not able to reject $H_0^3$, we will test the reverse hypothesis, i.e., whether the treatment effect is lower than zero (i.e., $H_0^4$: $\beta \leq 0$). If we reject $H_0^4$, we will conclude that the information campaign is weakly successful as the treatment effect is located between zero and the SESOI ($\pi > \beta > 0$). If we are unable to reject $H_0^4$, we will not be able to distinguish between a failure and a weakly successful information campaign as the treatment effect is lower than the SESOI but could positive or negative.

On the other hand, if we are unable to reject $H_0^3$, we will not be able to conclude whether the treatment effect is greater or lower than the SESOI ($\beta \leq \pi$ or $\beta \geq \pi$). We will then test whether the treatment effect is negative (i.e., $H_0^5$: $\beta \leq 0$). If we reject $H_0^5$, we will conclude that the information campaign is either weakly or fully successful as the treatment effect is positive but could be greater or lower than the SESOI ($\beta > 0$ but $\beta \leq \pi$ or $\beta \geq \pi$). If we are unable to reject $H_0^5$, our results will be inconclusive as the treatment effect could be positive or negative, greater or smaller than the SESOI ($\beta \leq 0$ or $\beta \geq 0$ and $\beta \leq \pi$ or $\beta \geq \pi$).
Last, we explain in the RR that the Tobit model will be used only if we have observations at the upper / lower limits of the scale. If it is not the case, we commit to use OLS to estimate the treatment impact.

**Recommender:** Zoltan Dienes

One question, raised by Aldoh, is whether you would want to pilot your scales to establish their reliability or validity. Or else, as suggested by Palfi, introduce into the main study "outcome neutral tests" - or estimates - of their scale properties, so that main conclusions are conditional on these tests showing adequate psychometric properties. A minor point: For the first scale, how about asking the question in this form "How likely are you to..." with options 0%, 10%...100%. Would this make the meaning of the response options clearer to subjects (and hence easier for us to interpret)?

We agree with the suggestion of referee Palfi. As we explained above, we collected pilot data to test the reliability of the scales. Note that, before piloting our design, we changed the scales as recommended, using percentages from 0% to 100% by 10 percentage-point increments.

- Regarding the VDI scale, the Cronbach's alpha is equal to 0.80, which is satisfactory.
- Regarding the ceiling and floor effect:
  - We have no observation at the bounds for VDI.
  - We have no observation at the bounds for the PMPI.
We have a large share of participants who give all the money to the charity (61%) and a negligible share who gives nothing (7%). (VPI)

Given these figures, we believe that ceiling / floor effects are not an issue for VDI and PMPI. However, the ceiling effects can be an issue for VPI.

Overall, we take into account the potential ceiling/floor effects as follows. First, we decided to use a Tobit model to estimate the treatment effect, which accounts for the inflation at lower and upper limits of the scales. Second, we introduced outcome neutral tests to ensure that we are able to detect an effect in case there is a large amount of ceiling/floor data. We wrote the following in the manuscript:

The effect of the information campaign on the three outcome variables will be estimated using a Tobit model to take into account the possible inflation of observations at the lower and upper limits of the scales. In case there are no such observations, the treatment effect will be estimated using OLS. We use a significance threshold of \(0.05\) but we apply a Bonferroni correction for multiple hypothesis testing and retain alpha=0.0167 (three outcome variables).

We set up outcome neutral tests to anticipate potential ceiling or floor effects. Prior to hypothesis testing, we will run the above power analysis again using data from the control group. We commit to analyse only the outcome variables for which we are able to estimate the SESOI with a probability of 80 percentage point or higher (see Sampling Plan).


The other main issue concerns statistical inference. First, a point of clarification. You say: “We observe that we have a probability of over 80% of detecting an effect if it is greater than or equal to \(0.10\).” What are the units? Likert units or Cohen’s \(d\)?

Thank you for pointing this out. Following your paper on “Obtaining evidence for no effect”, we decided to change our perspective a bit. We now define the smallest effect size of interest (SESOI=\(\pi\)).
larger costs than a simple exposure to a two-paragraph discourse, we consider that a SESOI at least twice higher (i.e., 12 percentage points) would be worth considering for policymakers. For the PMPI, there is no existing literature that explores the effect of a plant-based diet information campaign on doctors’ practices to our knowledge. We consider that an improvement by at least one additional test in doctors’ prescriptions (either a useless test is abandoned, or an additional useful test is prescribed) would successfully improve medical practices and would be worth considering for policymakers. We define the SESOI for the PMPI as 1/n, where n represents the total number of tests available. The SESOI is 1/8=0.125 (i.e., 12.5 percentage points). In our power analysis, we estimate the probability to reject the null hypothesis (i.e., no effect or negative effect of the information campaign) for the SESOI.

In terms of power, you have taken as a starting point your sample size, then asked what effect size that implies for an 80% power. As both Palfi and Aldoh asked, why should we be concerned specifically about an effect of 0.1? This point is important in terms of whether a non-significant result would refute your hypothesis. Would a non-sig result allow the conclusion you state follows from it: "the information campaign fails to improving doctors’ views of plant-based diets." Only if power was calculated with respect to a minimally interesting effect for your research problem. Aldoh also points out that conclusions based only on the logic of power do not take into account the data as they are actually observed; for example, a significant result may be less than 0.1; and a non-significant result may come with a confidence interval that extends beyond 0.1.

It is up to you what inferential approach you wish to adopt (i.e you can stick with a NP power approach), but some comment on this would be helpful. In effect Aldoh is raising the possibility of an equivalence region approach. It would still require justifying a minimally interesting effect size. Palfi wonders if Bayes factors may be helpful in this regard. Then one needs to say not what is the minimally interesting effect, but what effect is predicted by a theory. (The theory could be e.g. that any difference is possible within the range of the scale, though smaller effects are more likely than bigger ones.) (Some ideas here may help for any of these approaches: https://psyarxiv.com/yc75/) If justifying a minimally interesting effect or a predicted effect seems difficult, that may be because this is a situation where one should just estimate the effect size with its 95% CI. Approached in this way, your conclusion would not be that the intervention does or does not work; but that the estimate of how well it works is such and such.

The exact resolution of this inferential issue could go in several directions. Both myself and the reviewers thought this needed more work however.

Thank you again for this comment. As we detailed above, we significantly changed our approach in the way you and the reviewers proposed. We hope that the changes respond to your concerns.

Tables S1 and S2: Column labeled "Beta" - you mean "power"?
Yes, thank you.

**Report #1: Joshua Tasoff**

1A. The scientific validity of the research question(s)

Valid, very interesting and very important.

1B. The logic, rationale, and plausibility of the proposed hypotheses (where a submission proposes hypotheses)

The project is plausible, logical, and presented clearly.

1C. The soundness and feasibility of the methodology and analysis pipeline (including statistical power analysis or alternative sampling plans where applicable)

The approach is sound and feasible.

1D. Whether the clarity and degree of methodological detail is sufficient to closely replicate the proposed study procedures and analysis pipeline and to prevent undisclosed flexibility in the procedures and analyses

Everything necessary for replication is available.

1E. Whether the authors have considered sufficient outcome-neutral conditions (e.g. absence of floor or ceiling effects; positive controls; other quality checks) for ensuring that the obtained results are able to test the stated hypotheses or answer the stated research question(s).

I think the authors have considered reasonable scenarios. Unfortunately, a messy world produces messy data. There may be unforeseen factors that may get in the way of logistics or make the desired tests less ideal than they appear now. But I believe the authors have done their due diligence.

Thank you very much for this positive feedback!

**Report #2: Bence Palfi**
The manuscript aims to test whether providing information about the health benefits of plant-based diets to physicians can change their attitudes and behaviour towards veganism. I believe that the proposed research question is valid and very promising, it would be certainly intriguing to explore the potential of the introduced information campaign. I applaud the authors for choosing the RR format and for the level of transparency regarding their materials. However, I have a few comments concerning the introduction and I've found some major issues in the methods/proposed analyses that I believe should be addressed before in principle acceptance is secured.

**Major**

Some important pieces of information are missing from the Methods section and its clarity could be also improved.

Crucially, more information on recruitment is needed. It is unclear how the mentioned company will recruit the participants: are they approaching physicians in their database, or any physician can attend the study? What will they know about the study before signing up? Are they compensated on the same level as their typical hourly rate? These should be made explicit as selection bias can challenge the generalisability of the results.

Thank you very much for pointing this out. We omitted the information about the recruitment process, which is indeed crucial for the external validity of our studies and the generalisability of our results. We added the following paragraph:

“The participants are selected from the polling institute’s database of doctor participants and are not recruited for this specific experiment. They are randomly allocated in one of the two conditions (baseline vs. treatment), and receive a fixed amount of money (€18) determined by the standard practice of the polling institute.”

**Will the participants be randomly assigned to the conditions? This is critical to the comparability of the conditions.**

Yes, they are. Please, see our answer to the previous comment.

There are some redundancies: the size of the sample is mentioned multiple times as well as the information about the variables and information about the control/experimental group is scattered around the method section.
Thank you for this remark. We did our best to eliminate the duplicates.

Have the proposed variables been used before or are they newly developed? Also, it is unclear why T9 and T10 are not included in the PMPI score. Are these filler items?

The variables proposed in our survey were specifically designed for this experiment. Two members of the team are doctors working on plant-based nutrition and regularly intervene to train other doctors on plant-based diets. Paco Maginot recently intervened at universities to train students who are about to finish their medical studies to become doctors. During his lecture, he asked the students whether they would prescribe some biological exams from a list of exams. The list that we report in the manuscript is largely inspired from the list of biological exams he used in his class survey. (This is how we calibrated our power analysis in the previous version of the manuscript.) We decided to add T9 and T10 in the list because our two doctors reported that many of their colleagues would be willing to prescribe them, although this would not be considered as good or bad practice.

Regarding T9, some doctors would be willing to test for the concentration of B12 through a blood exam. Checking for B12 is a good practice for vegan patients as there is no B12 in plant-based foods and patients must therefore take supplements for it. However, a blood test is not informative if the patient eats seaweed. So, while checking for B12 is a good practice per se, it is not ideal to do it through a blood test (the urine test in T1 is more robust). We thus decided to leave it out of the PMPI but still to include it as several doctors might ask for it.

Regarding T10, it is a very standard test that many doctors prescribe in various situations. The two doctors in our team believe that their colleagues might ask for this blood test whenever they ask for blood exams. Prescribing T10 would thus reflect a general practice that is not specific to vegan patients. Here again, it is not informative for PMPI but we included it in our list as it is regularly asked by doctors.

The section on power has some factual errors and needs more clarity.

For instance, when the authors say that they use an a priori power of 0.95, I suspect that they refer to the significance threshold of 0.05 and not to power as later they power their design to find statistically significant tests in 80% of the cases and not in 95% of the cases.

Thank you for pointing this out. We corrected it in the manuscript.
The correction of the alpha level is mentioned in the Table, but this should be explained in the main text as well.

Thank you for this remark. We added the information in the main text.

“Based on previous data, we assume that the average probability of a positive event in the control group is 0.495. It is unclear what previous data the authors refer to. Are they referring to some pilot data or to previous studies in the field?

In the previous version of the manuscript, we used some data to calibrate the power analysis. More specifically, we used some data that Paco Maginot, one of the co-authors, collected while he trained medical students at the university. We used the probability of prescribing each test in his sample as the probability of prescription in our analysis. Given that we have now collected pilot data, we use these pilot data to calibrate our power analysis.

The minimally interesting effect sizes (e.g., 0.1 on VDI) should be justified or put in context by comparing them to previous studies.

Thank you for pointing this out. Following your paper on “Obtaining evidence for no effect”, we decided to change our perspective a bit. We now define the smallest effect size of interest (SESOI=π).

The key element for our data analysis is to define a smallest effect size of interest (SESOI), i.e., the smallest effect below which the campaign is not seen as sufficiently effective to be worth of interest for policy-making. We rely on previous literature to define the SESOI. For the VDI, we use previous research by Espinosa and Stoop (2021), 65 who found a 20 percentage-point increase in the share of correct responses following a short information campaign on nutrition with short responses. The intervention in our study is longer and more complex, and we thus consider that a policy with half of this effect size (i.e., 10 percentage points) would be worth considering for policymakers. For the VPI, we rely on results comparing the impact of NGOs’ discourses on donations in a charity giving game by Espinosa and Treich (2021). The authors found a 6 percentage-point increase in donations when individuals are exposed to a two-paragraph welfarist discourse. Given that the information campaign we develop is more complex and would generate larger costs than a simple exposure to a two-paragraph discourse, we consider that a SESOI at least twice higher (i.e., 12 percentage points) would be worth considering for policymakers. For the PMPI, there is no existing literature that explores the effect of a plant-based diet information
campaign on doctors’ practices to our knowledge. We consider that an improvement by at least one additional test in doctors’ prescriptions (either a useless test is abandoned, or an additional useful test is prescribed) would successfully improve medical practices and would be worth considering for policymakers. We define the SESOI for the PMPI as $1/n$, where $n$ represents the total number of tests available. The SESOI is $1/8=0.125$ (i.e., 12.5 percentage points). In our power analysis, we estimate the probability to reject the null hypothesis (i.e., no effect or negative effect of the information campaign) for the SESOI.

**Outcome neutral tests** play an important role in RR studies to ensure the quality of the data. I think all three central tests could have a corresponding outcome neutral test to ensure that there is no ceiling or floor effect in the control groups. You could run a two-sided Wilcoxon test in the control group for all three variables.

Thank you for pointing this out. Following your comment we proceeded to several changes. First, we ran a pilot session to test the robustness of our outcome variables and elicit the presence of floor/ceiling effects. In our pilot sample:

- We have no observation at the bounds for VDI.
- We have no observation at the bounds for the PMPI.
- We have a large share of participants who give all the money to the charity (61%) and a negligible share who gives nothing (7%). (VP1)

Following these results, we decided to opt for a Tobit model, as it can take into account the inflation at the upper and lower limits of the scales.

Last, we decided to introduce outcome neutral tests as you suggested. We added the following paragraph:

*We set up outcome neutral tests to anticipate potential ceiling or floor effects. Prior to hypothesis testing, we will run the above power analysis again using data from the control group. We commit to analyse only the outcome variables for which we are able to estimate the SESOI with a probability of 80 percentage point or higher (see Sampling Plan).*

The first central test investigating the extent of attitude change has a potentially important follow-up test that, in my opinion, could also be preregistered. Elevating the attitudes towards plant-based diets is useful however, the intervention may not be good enough if the attitudes remain negative in the
experimental group (VDI smaller than 0.5). This is of course given that the attitudes were negative in the control group and the intervention managed to elevate them.

Thank you for this suggestion. We believe that an information campaign can still be useful even if it is not sufficient to make the average views about plant-based diet positive. It might indeed take several expositions to information campaigns, or a combination with other tools (like new dietary guidelines) to achieve this. Our focus is here to estimate the impact of a single exposure to this type of information campaign. So, we prefer not to expand the set of pre-registered hypotheses.

The authors may find it difficult to interpret some of their results given that they are non-significant. I recommend the inclusion of Bayesian analyses (the Bayes factor) so that the authors can distinguish between inconclusive results and clear evidence for the null. Bayes factors can be included conditionally (in case a test is non-significant) or they can be run for every single statistical test. JASP (https://jasp-stats.org/) offers a simple way to run Bayesian Mann-Whitney and Wilcoxon tests.

Thank you for this comment. Following your advice and the editor’s remarks, we decided to change our perspective such as to include the information that can support a null effect. Thank you also for pointing out this resource, which we did not know. After looking at the alternatives, we prefer to stick to a frequentist approach as we have more expertise in this area and the recommender left this window open.

We summarized the new approach in the General Comments at the beginning of the letter.

Minor

In general, I’ve found the introduction to be very informative, concise, and well-argued. However, it would be great to see some paragraphs on the psychology of attitude/behaviour change via information campaigns.

Thank you for this suggestion. We have added the following paragraph in the introduction.

*Information campaigns can be effective tools to educate, update beliefs and induce behavioural changes, may it be in politics, environmental behaviors or health. Specifically, health information campaigns have been proven successful to educate the general population on topics such as nutrition, HIV, strokes, vaccines, and more recently guidelines during the COVID-19 pandemic. Additionally, informing professionals about*
the latest scientific advances and methods, in particular doctors, can lead to better practices and updated knowledge.

I think that the end of the introduction does not need to mention the specific statistical analyses that will be used to test the hypotheses. It is enough to specify the research question and the hypotheses. The statistical analyses are described in detail later.

Thank you for this remark. We proceeded as suggested.

“Physician” may be a more precise term than “doctor”. More importantly, am I right in thinking that the participants will be primary care physicians (general practitioners) and not any kind of doctors? I think this should be clarified.

Thanks for your comment. We originally wrote “physicians” but our proofreader advised us to write “doctors” instead. (As he comes from England, there might be some cross-country variations that we are not aware of.) Following your remark, we decided to write in the abstract and introduction that our study concerns general practitioners.

In the description of Figure 1, the authors claim that the p values in a previous study were significant at the 1% level (in fact, \( p < 0.001 \) is also significant at the 0.1% level), but they use the 5% level in their own study. Alpha levels should be specified before data collection, and I suspect that the authors of the mentioned study did not intend to use the 1% threshold, so it is better to stick with the traditional threshold of 0.05 when describing the study.

We changed the p-values in our graph from “\( p<0.001 \)” to “\( p<0.05 \)”.

**Report #3: Alaa Aldoh**

**Overview**

Doctors’ possible misperceptions of plant-based diets may compromise their relationships with patients, and the willingness of newly vegetarian/vegan patients to continue eating plant-based foods. The article suggests that doctors in France are not always willing to learn about plant-based nutrition as a result of
barriers including cognitive factors and otherwise. The article outlines plans for a randomised controlled trial ($N = 400$) where participating doctors are assigned to one of two conditions: a) information campaign, or b) no information control. The authors hypothesize that the information campaign will positively influence doctors’ opinions of plant-based diets, increase likelihood of prescribing the correct medical test, and increase recommendations to follow plant-based diets.

I am not particularly aware of research in this area, but all things considered, I think this study is valuable and could have real consequences on the use of information campaigns to facilitate doctors’ knowledge and promotion of plant-based diets. Some methodological decisions require further justification or elaboration to ensure the collected data adequately answers your research questions.

**Re: Introduction**

The introduction provides an excellent overview of doctors’ perspectives on plant-based diets in France, though certain parts can be strengthened. I could not access a few of the references provided to justify the research questions, so I cannot easily evaluate this myself. I think it would be helpful to include links to theses available on the web especially when DOIs or other identifiers are not available. It is my understanding that there’s been no research so far exploring the effect of information campaigns used to improve doctors’ knowledge of plant-based diets, so I can understand if it not possible to use existing evidence to support the proposed study. There’s good discussion of how doctors may deter patients from pursuing a plant-based diet, but I think some coverage of how doctors might positively influence people's uptake of plant-based diets would be good too (see Cramer et al., 2017; McIntosh et al., 1995). The supporting figure (Figure 1) reports results from a previous study, but only includes p-values obtained from statistical tests. Please report the statistical tests fully including sample size in either the figure or notes.

Thank you for this comment and for the references. We have added in the main text the two aforementioned papers (Cramer et al., 2017; McIntosh et al., 1995) and two other articles that show how doctors might positively influence dietary changes among their patients. Following your request, we have added the statistical test (two proportions Z-test) and the sample size ($N = 1090$) under the graph. We also modified the p-values to 5%. Most of the references that lack DOI are medical theses, which are not published in peer-review journals but that were accepted by juries (mandatory to become a doctor).
Re: Methods

Psychometric properties of measures

The proposed measures are interesting but it isn’t clear to me why existing measures of attitudes towards plant-based diets were not used. Corrin and Papadopoulos’s (2017) review of literature on attitudes towards a vegetarian diet may be helpful in finding existing measures that can be adapted for the purpose of your research. Otherwise, if these measures have been used before in a pilot/unpublished study, I would suggest adding psychometric properties found in the past to support your use of these measures. If these are completely new measures, it may be beneficial to pre-test them and examine their internal reliability (e.g., using Cronbach’s alpha or factor analysis). If this is not possible, I would acknowledge this as a limitation. I have some concerns about the “veganism promotion index” (VPI). Doctors may disagree with one aspect of the message that there are “no health risks in following a well-balanced vegan diet”, despite willingness to promote a well-balanced vegan diet generally. Distinguishing between those two may be beneficial conceptually, or you could include a question of some sort to check doctors’ understanding of the question. It is also not clear to me the extent that the charity giving game is an adequate measure of actual or “active” behaviour. Some discussion of the VPI’s convergent validity is needed to establish its adequacy for the intended purpose. On screen #6, the question “what is your opinion regarding the level of consumption by the French population of...?” may be interpreted differently by participants. For example, if a doctor chooses “slightly excessive” for eggs, does it refer to people’s consumption of eggs, or their opinion of people’s said consumption? I may be wrong about this though so it may be preferable to consider the feedback of the editor/reviewers on this. Otherwise, I believe these are conceptually valuable outcomes to test the efficacy of the intervention.

Thank you for these comments.

1) We agree with you on the fact that there are several scales that have been developed to assess the attitudes towards vegetarians and plant-based diets, and Corrin and Papadopoulos (2017) provide an extensive review. However, our study is more particular as we focus here on the doctor-patient relationship, which is an asymmetrical situation where one expert informs a non-expert about health risks that the patient cannot assess him/herself. We thus decided to develop our own scale.

2) Your comment and the comments of the other referee convinced us to run a pilot session to investigate the robustness of our metrics. The internal reliability of our VDI scale is relatively good as the alpha of Cronbach is equal to 0.80.

3) Following your suggestion, we changed the wording for the information campaign. We now talk about “an information campaign aimed to promote vegan diets to the general population”. We add that “This campaign, developed by the CNRS and doctors, would emphasize the importance of a well-balanced vegan diet and the expected health benefits from such diet.” We hope that this new formulation is clearer.
4) Regarding the active dimension of the charity giving game, we decided to slightly change the perspective following your suggestion. We contacted the polling institute and asked them whether we could incentivize the doctors. The doctors now receive €2 in addition to their fixed fee for their participation. They can keep the money for themselves or give part (or all) of it to develop the campaign. This new setting thus gives a more active role to the doctors as the money is theirs.

5) Last, we made the question about the consumption levels more explicit. It now reads:

   What is your opinion regarding the level of consumption by the French population of the following foods? (From Strongly insufficient (i.e., they eat too little of this food) to Strongly excessive (i.e., they eat too much of this food.))

Presentation of measures

Regarding the scales presented on screen #4, I think it might be confusing to vary the valence of the anchors across questions. I think it would be better to keep the negative anchors on the same side for each question. The booklet used to provide information relates to both vegetarian and vegan diets, but the measures used refer to vegan diets specifically. I think it would be better either to adjust the prompts, or to clarify in your discussion that this research applies to vegan diets specifically. Perhaps discuss this limitation in your report, as doctors may have more favourable attitudes towards vegetarian diets in comparison to vegan ones.

Thank you for this comment. All scales on this screen (previously #4 and now #5) go from “not at all” to “absolutely”. We made the suggested changes to make sure that we talk only about vegan diets (and not about vegan and vegetarian diets, which might create some confusion). We do not pre-register any hypotheses on these variables. We aim to discuss them as postdictions and to show some general statistics for future research. We will thus discuss the limitations if / when we introduce them in the final manuscript.

Inferencing

In your power analyses, it seems like you expect a difference of 0.1 on the VDI and VPI measures, and 6 percentage points on the PMPI. Please add an explanation for why those are the expected effect sizes. There may be previous research justifying the effect sizes, or it may just be that this is what you consider practically meaningful. In all cases, I would recommend adding an explanation. It is also not clear to me if these thresholds are used for making inferences about the data, or if they are used for the purpose of the power analysis specifically. For example, if you obtain a significant difference between conditions,
but the difference is less than 0.1 on a 0-1 scale, would you still infer that the intervention was effective? I am unfamiliar with using unilateral Wilcoxon tests, so I cannot comment on using it as an inferential tool. My personal preference would be to use methods that do not rely on null hypothesis significance testing (e.g., Bayesian estimation of parameter values, Bayes factors, equivalence testing), but I leave this to the editor who may be experienced with other methods.

Thank you also for these remarks. We agree with your criticisms. We decided to define smallest effect sizes of interest (SESOI). We also changed the estimation method and now rely on a Tobit estimation with all our outcome variables rescaled between 0 and 1.

Regarding the SESOI, we wrote:

The key element for our data analysis is to define a smallest effect size of interest (SESOI), i.e., the smallest effect below which the campaign is not seen as sufficiently effective to be worth of interest for policy-making. We rely on previous literature to define the SESOI. For the VDI, we use previous research by Espinosa and Stoop (2021), who found a 20 percentage-point increase in the share of correct responses following a short information campaign on nutrition with short responses. The intervention in our study is longer and more complex, and we thus consider that a policy with half of this effect size (i.e., 10 percentage points) would be worth considering for policymakers. For the VPI, we rely on results comparing the impact of NGOs’ discourses on donations in a charity giving game by Espinosa and Treich (2021). The authors found a 6 percentage-point increase in donations when individuals are exposed to a two-paragraph welfarist discourse. Given that the information campaign we develop is more complex and would generate larger costs than a simple exposure to a two-paragraph discourse, we consider that a SESOI at least twice higher (i.e., 12 percentage points) would be worth considering for policymakers. For the PMPI, there is no existing literature that explores the effect of a plant-based diet information campaign on doctors’ practices to our knowledge. We consider that an improvement by at least one additional test in doctors’ prescriptions (either a useless test is abandoned, or an additional useful test is prescribed) would successfully improve medical practices and would be worth considering for policymakers. We define the SESOI for the PMPI as 1/n, where n represents the total number of tests available. The SESOI is 1/8=0.125 (i.e., 12.5 percentage points). In our power analysis, we estimate the probability to reject the null hypothesis (i.e., no effect or negative effect of the information campaign) for the SESOI.

Thank you very much for this interesting read.

Thank you!