

From Basic to Applied Science: The Case of the Differential Outcomes Procedure

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Review for the journal *Psicológica* (January, 2023).

I found this theoretical review of the "Differential Outcomes Procedure" (DOP) very interesting, as well as appropriate for the journal *Psicológica*. The authors' effort to bring basic research closer to real-life applied problems is certainly very important. I am clearly in favour of this kind of approach, which remains a challenge for all of us. I agree with the authors when they state that this procedure has great potential to be used in medical settings with elderly patients in order to achieve more autonomy with respect to adherence to medical treatments. The review seems to me to be well structured in its various sections, with sufficient clarifying examples. It is worth mentioning the amount of work the authors have already done on this topic. However, I must say that the section entitled "Mechanisms underlying the differential outcome effect" was difficult for me, given my lack of knowledge of neuroanatomical networks. I therefore hope that this section will be adequately reviewed by someone else.

In conclusion, my impression is very favourable and I congratulate the authors for this work. Next, I would like to highlight some minor considerations, which could perhaps improve the manuscript.

#### MINOR POINTS:

- Although the review is well structured in its different sections, these could be better delimited if they were numbered, with clearer sections and sub-sections.
- As there are many acronyms, it might be a good idea to have a box with all of them. It would be a help to the reader unfamiliar with this subject. Also, please check them (I think there are one or two errors - for example on page 18, line 6 starting at the bottom, NDOP).
- On page 18 (in the first sentence of the last paragraph), where it says "Later on, these findings .... prescriptions.", a couple of references should be included at the end of the sentence.
- There are aspects of the wording that could be improved. Specifically, on several occasions the author(s) of a publication is placed inside a parenthesis, when it would be more appropriate for it to be outside (and in the parenthesis only the year of publication of the work cited). Here are two examples. One on page 18 (lines 8 and 9, starting at the top). Where it says: "In a first study (Molina et al., 2015), simulated... ", it would be more grammatically correct to say: "In a first study, Molina et al., (2015) simulated...". The second, on page 20 (in the second and third line of the last paragraph), where it says: "In a recent study, (González-Rodríguez et al., 2020) found that...". It should read: "In a recent study, González-Rodríguez et al. (2020) found that...". Please check the text.

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