

simone.camargo@physiol.uzh.ch

From: Gilles Kratzer <gilles.kratzer@gmail.com>
Sent: Monday, 12 March 2018 10:08
To: simone.camargo@physiol.uzh.ch
Subject: Re: results and text for the VETamt
Attachments: for Gilles ANOVA recalculated_revGK.pptx

Dear Simone,

Thank you for your email.

Here is a reference for the reducing of power with unequal sample size
(<http://onlinelibrary.wiley.com/doi/10.1002/sim.4780060506/epdf>)

Please find my review attached.

Out of interest did you have already sent the email to Leo Held?

Kind regards, Gilles

On 7 March 2018 at 16:43, <simone.camargo@physiol.uzh.ch> wrote:

Dear Gilles,
it was a pleasure talking to you today and it was very helpful. It made me to feel more comfortable with the discussion on sample size.

And , for sure, I made a mistake on my analysis,

I was using a 2wayANOVA model (example 3 from the EDA used a 2 way anova).

I did do again the analysis using a 1way ANOVA. I could enter the means and average standards to calculate the f for each analysis. I used data that have a high statistical significance ($p < 0.0001$), other 2 with more variable results ($p < 0.05$) and another one that was significant only when males and females were pooled (bigger groups). The group size could be between 4-10, so I think 6 mice per group would be a good number to cover variability from the parameters analyzed on our experiments. Do you agree?

I added the analysis, question and the text to the power point attached. I would really appreciate if you could check it for me. please do not hesitate to change, correct, suggest modifications on the text and analysis.

I did not find a paper for loss on power analysis by using variable group size. If you could suggest me one, I would appreciate.

Thanks a lot,

Simone

(See attached file: for Gilles ANOVA recalculated.pptx)

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