

RAC to SMG

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On behalf of RAC

Brief background

- We know RevMan needs updating
- From the current v5.2 we'll go to v6 in 2014
 - NB: Notice, no month is specified!
- After v6 there are currently discussions for a drastically new 'look & feel' for RevMan
- All users, groups, etc. were invited to submit wish items, to be considered for the new version
- A wishlist of more than 200 items was created

SMG members also submitted 'wish' items

RAC to SMG – full circle!

- Dealing with the wishlist
 - There were more than 200 requests to assess
 - Many skype calls and face-to-face meetings later, 87 items are agreed for implementation
 - Of those, 7 items are related to ‘statistical methods’
 - Another 22 refer to ‘Data & Analysis’, and 6 to ‘Figures’, so they have some statistical content

The 7 statistical items in the final list

95% Confidence interval for I-squared -

Add a prediction interval to the forest plot for random-effects meta-analyses

Provide a facility to include both fixed- and random-effects estimates in forest plots.

Add alternative estimators for tau and different random effects models -

Change title of calculator to reflect Effect Measure -

Logistic regression to estimate meta-analysis for dichotomous data -

Calculation of 95% CIs using t distribution -

Translation for statisticians (ie less words – more notation)

- 95% CI for I^2
(based on Cochran's homogeneity statistic) ✓
- PI for RE models ✓
- RE & FE estimates in FP ✓
- Alternative τ^2 (with 95% CI) and RE models
(based on Paule & Mandel method) ✓
- 95% CI for μ using t-distribution
(based on the Knapp & Hartung method) ✓
- Logistic regression ?

Related 'Data & analysis' and 'Figures' (Summary)

- Ability to convert continuous data to GIV
- Allow only one column of sample in GIV
- Allow missing number of participants in GIV
- Save all data entered in the calculator and try to create a data trail of transformations
- Display risk information in forest plots

Needed:

- Assess implications of new items in Training
- **Needed badly:**
- **Volunteers, please, to help the IMS team get underway quickly by providing support to get the statistics right!**