ForestPlotACE151

Michael Andreae December 8, 2015

We are creating the Forest plot for the Illiac Crest Bone Granft Harvesting Bayesian analysis based on Dr. Johnson's graph for our JPain meta-analysis on cannabis for chronic neuropathic pain

Example

 $Example\ from\ https://cran.r-project.org/web/packages/forestplot/vignettes/forestplot.html$

| | Deaths | Deaths | | |
|--------------|-----------|-----------|------|------------------------------|
| Study | (steroid) | (placebo) | OR | |
| Auckland | 36 | 60 | 0.58 | - |
| Block | 1 | 5 | 0.16 | ← |
| Doran | 4 | 11 | 0.25 | |
| Gamsu | 14 | 20 | 0.70 | |
| Morrison | 3 | 7 | 0.35 | |
| Papageorgiou | 1 | 7 | 0.14 | - |
| Tauesch | 8 | 10 | 1.02 | |
| | | | | |
| Summary | | | 0.53 | |
| | | | | 0.088 0.177 0.354 0.707 2.50 |

Template Dr. Johnson

Ignoring Dose Study Placebo **Treat** Est. OR (CI) **Dose** 3.43 (1.00,11.8) Abrams 07 96 6/25 13/25 Ellis 09 96 5/28 13/28 5.00 (1.10,22.9) 1.50 (0.25,8.98) 3.00 (0.31,28.8) Ware 10 2.5 3/22 4/21 Ware 10 6.3 5/22 5.00 (0.58,42.8) Ware 10 9.4 7/21 Wilsey 08 2.67 (0.71,10.1) 19 18/33 24/36 Wilsey 08 34 22/33 3.50 (0.73,16.8) 2.50 (0.78, 7.97) Wilsey 13 9 11/38 17/37 3.67 (1.02,13.1) Wilsey 13 18 18/36 **Bayesian** 3.22 (1.59,7.24) 0.20 2.0 20.0

Odds Ratio

Forest Plot Simplified

Ignoring Dose Study **Treat Placebo Months** Est. OR (CI) Abrams 07 13/25 6/25 3.43 (1.00,11.8) 96 Ellis 09 5.00 (1.10,22.9) 96 13/28 5/28 Ware 10 4/21 3/22 1.50 (0.25,8.98) 2.5 Ware 10 7/21 5.00 (0.58,42.8) 9.4 4/35 Bayesian 3.22 (1.59,7.24) 0.20 10.0 Odds Ratio

Forest Plot for ACE 151

ICBG Bayesian Analysis

| Study | Treat | Placebo | OR (CI) | |
|-----------------|---------|----------|------------------|------------------------------|
| Gundes 2000 | 2/30 | 5/15 | 0.01 (0,0.10) | _ |
| Barkhuysen 2010 | 2/31 | 2/27 | 0.19 (0.03,0.93) | |
| Singh 2007 | 0/9 | 7/11 | 0.18 (0.01,1.5) | |
| Blumenthal 2005 | 1.7*/18 | 16.8*/18 | 0.18 (0.03,0.21) | _ |
| Bayesian | | | 0.10 (0.01,0.59) | 0.01 0.10 0.80 Odds Ratio |

| ## | | mean | lower | upper |
|----|---|---------|----------|---------|
| ## | 1 | NA | NA | NA |
| ## | 2 | NA | NA | NA |
| ## | 3 | 0.01430 | 0.001245 | 0.09766 |
| ## | 4 | 0.18760 | 0.025570 | 0.92940 |
| ## | 5 | 0.17920 | 0.013610 | 1.49400 |
| ## | 6 | 0.18410 | 0.025880 | 1.21200 |
| ## | 7 | NA | NA | NA |
| ## | 8 | 0 09377 | 0 013190 | 0 58910 |

Forest Plot for ACE 151 Nicer Formatting and study order/numbers/names still not corrected $\,$

ICBG Bayesian Analysis

| Study | Treat | Placebo | OR (CI) | |
|-----------------|---------|----------|------------------|------------------------------|
| Blumenthal 2005 | 0/9 | 7/11 | 0.01 (0,0.10) | |
| Gundes 2000 | 2/30 | 5/15 | 0.19 (0.03,0.93) | |
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| Singh 2007 | 1.7*/18 | 16.8*/18 | 0.18 (0.03,0.21) | |
| Bayesian | | | 0.10 (0.01,0.59) | 0.01 0.10 1.00 Odds Ratio |

| ## | | mean | lower | upper |
|----|---|---------|----------|---------|
| ## | 1 | NA | NA | NA |
| ## | 2 | 0.01430 | 0.001245 | 0.09766 |
| ## | 3 | 0.18760 | 0.025570 | 0.92940 |
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| ## | 6 | NA | NA | NA |
| ## | 7 | 0.09377 | 0.013190 | 0.58910 |