

Factors Affecting the Forced Confabulation Effect: A Meta-Analysis of Laboratory Studies

Paul Riesthuis
Henry Otgaar
Glynis Bogaard
Ivan Mangiulli



Paul Ingram



Forced Confabulation Effect



Answerable questions:

What was the color of the shirts of the perpetrators?

Unanswerable questions:

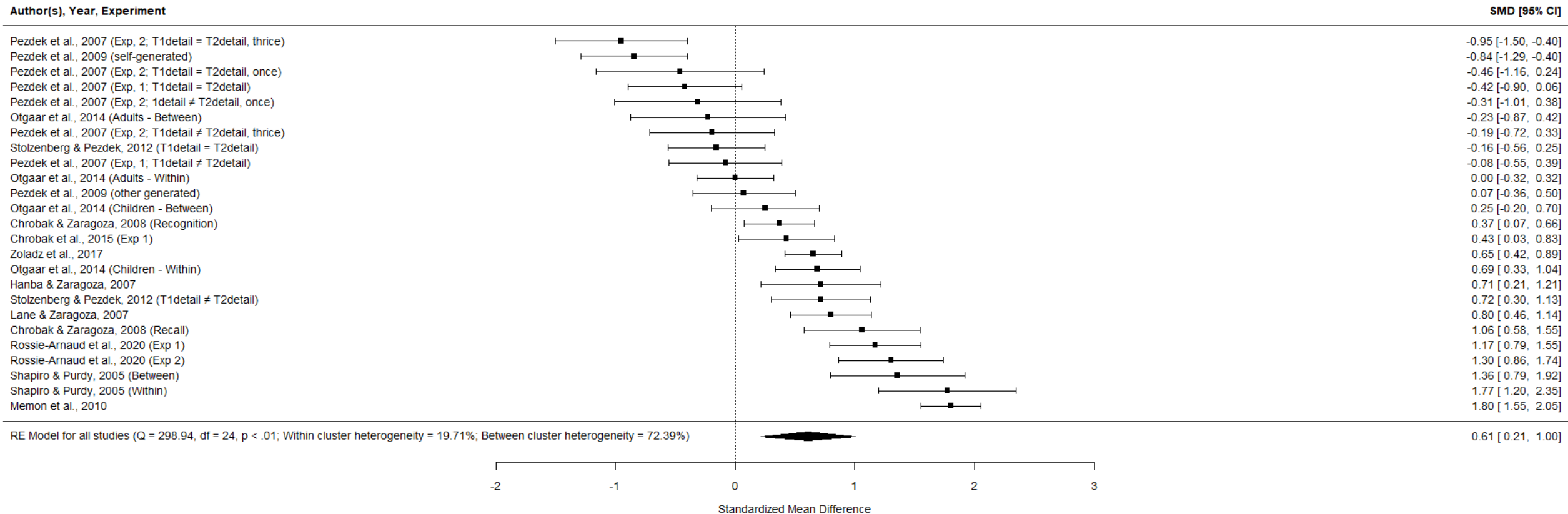
What was the color of the gun?

Final memory test

Systematic Review

- Registered Report
- Search terms: confabulation OR fabrication AND memory OR interview
- Articles:
 - Records screened - 8240 articles
 - Eligible articles - 19 articles
 - Included - 12 articles/ 25 effect sizes

Three-Level Meta-Analysis

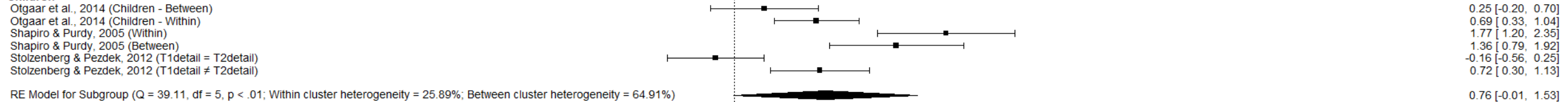


Age

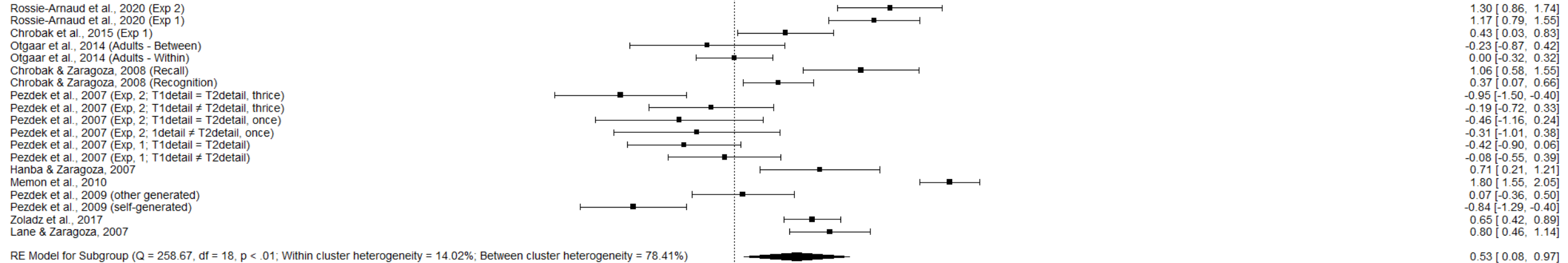
Author(s), Year, Experiment

SMD [95% CI]

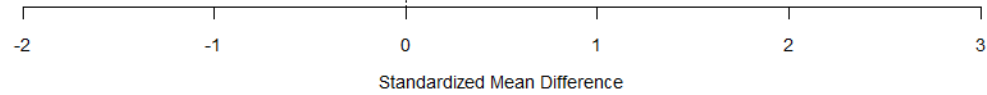
Children



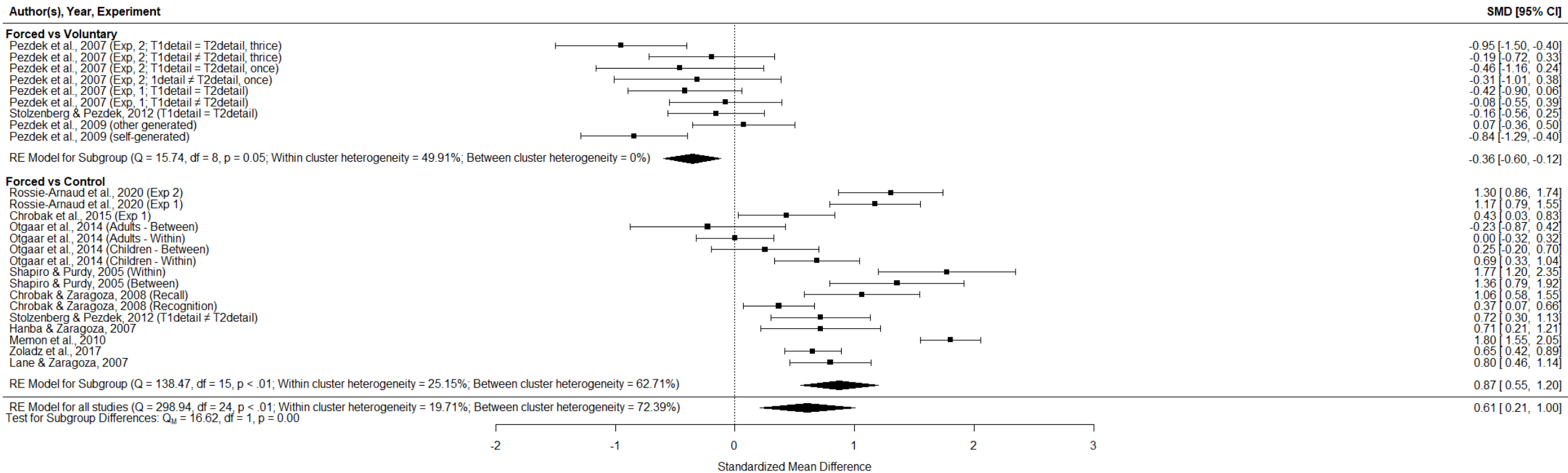
Adults



RE Model for all studies (Q = 298.94, df = 24, p < .01; Within cluster heterogeneity = 19.71%; Between cluster heterogeneity = 72.39%)
 Test for Subgroup Differences: $Q_M = 2.15$, df = 1, p = 0.14



Type of Confabulation



Qualitative Reviewed Moderators

- Details versus entire events
 - 1-week delay
 - 6-week delay or greater
- Confirmatory feedback
 - “That’s right, _____ is the correct answer”

Exploratory Analyses

- Within vs between subject designs
 - $Q_m(1) = 5.05, p = .03$
 - Hedges $g'_{\text{Within}} = 1.12, 95\%CI [.55; 1.70], 95\%PI [-.28; 2.53]$
 - Hedges $g'_{\text{between}} = .32, 95\%CI [-.06, .70], 95\%PI [-.89; 1.53]$
- Misinformation effect?
 - Presentation of unanswerable questions
 - Otgaar et al., 2014 & Shapiry & Purdy, 2005

Conclusions

- Forcing confabulation effect
- Type of control group
- Misinformation effect

Thank you!

Paul Riesthuis

Paul.riesthuis@kuleuven.be

