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| **Database** | **Search terms** | **Exclusions** | **Search field** | **Inclusions** | **Number returned** |
| JStor | (multilevel regression and poststratification)  OR (“post-stratification”) | anything before 1997 & exclude not in English | Abstract | Article and content I can access | 44 |
| Pubmed | "multilevel regression with post-stratification" OR "multilevel regression with poststratification" OR "multilevel regression and Poststratification" OR "multilevel regression and Post-stratification" | anything before 1997 & exclude not in English | Title/Abstract | Article | 26 |
| Ebsco | "multilevel regression with post-stratification" OR "multilevel regression with poststratification" OR "multilevel regression and Poststratification" OR "multilevel regression and Post-stratification" | anything before 1997 | All field | Academic (Peer-Reviewed) Journals | 42 |
| Ebsco | (multilevel regression AND post-stratification) OR (multilevel model AND post-stratification) OR (multilevel regression AND poststratification ) OR (multilevel model AND poststratification) | anything before 1997 | All field | Academic (Peer-Reviewed) Journals | 45 |
| Pubmed | (multilevel regression AND post-stratification) OR (multilevel model AND post-stratification) OR (multilevel regression AND poststratification) OR (multilevel model AND poststratification) | anything before 1997 | All field | Article | 28 |
| JStor | (("multilevel regression" AND ("post-stratification" OR Poststratification)) OR ("multilevel model" AND ("post-stratification" OR Poststratification))) | anything before 1997 and are not in English | All field | Article | 142 |

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| **Stage** | **Number of Paper Resulted** |
| All search result | 327 |
| Remove duplicates | 212 |
| Remove non-papers | 209 |
| Eligible abstracts - Lauren | 80 |
| Eligible abstracts - Dewi | 87 |
| Eligible abstracts | 83 |

After creating the metadata:

1. Chen, Song Xi; Tang, Cheng Yong paper is excluded to the final exclusion because it is apparently not an MRP paper (reason 1)
2. Caughey; Warshaw’s paper uses IRT, instead MRP. They only compare IRT with MRP in the theoretical framework. (reason 1)
3. Elliot; Valliant’s paper does not contain any figures. (reason 2)
4. Gelman’s (2007) paper does not contain any figures. (reason 2)
5. Hawley’s (2013) paper does not contain any figures related to MRP. (reason 2)
6. Hong;Hong’s paper did not use MRP. (reason 1)
7. Mortimore’s paper is a review of another paper, hence it does not contain any plots. (reason 2)
8. Gelman and Carpenter’s paper does not contain any MRP plot. (reason 2)
9. Xingyou and Zang paper are the same. (duplicate)
10. Pacheco (2012) does not contain any plot. (reason 2)
11. Wang et al (2018)’s paper do not contain any plot. (reason 2)
12. ?Tucker, Montgomery & Smith use Autoregressive Latent Trajectory, which is essentially a multilevel hierarchical model. Is is considered as MRP though? (reason 1)

Notes on comparison

Comparison to other study: Can be from other survey/study

Comparison raw: Comparison to direct estimates

Comparison truth: Comparison to true value

Comparison other method: For example, ordinary multiple regression

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| **Stage** | **Number of Paper Resulted** |
| All search result | 327 |
| Remove duplicates | 211 (Xingyou and Zang paper are the same.) |
| Remove non-papers | 208 (Mortimore’s article is a review, not a paper) |
| Eligible abstracts - Lauren | 80 |
| Eligible abstracts - Dewi | 87 |
| Eligible abstracts | 81 – 10 (exclude all the notes above) |

The communication plot is sometimes is not used to display the result of the MRP itself, but to use the MRP to measure or to correlate with other variable related to the context of the study, for example paper of Franko, Ciftii, and Curiel.

The term of `case` in the metadata could also be interpreted as the outcome.

Dot plot with CI bar -> confidence interval

Dot plot with CIB -> credible interval bar