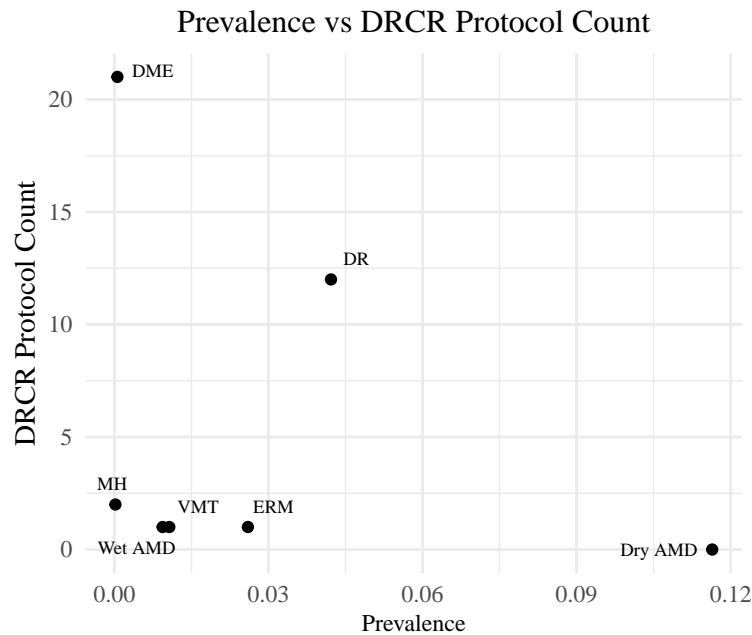
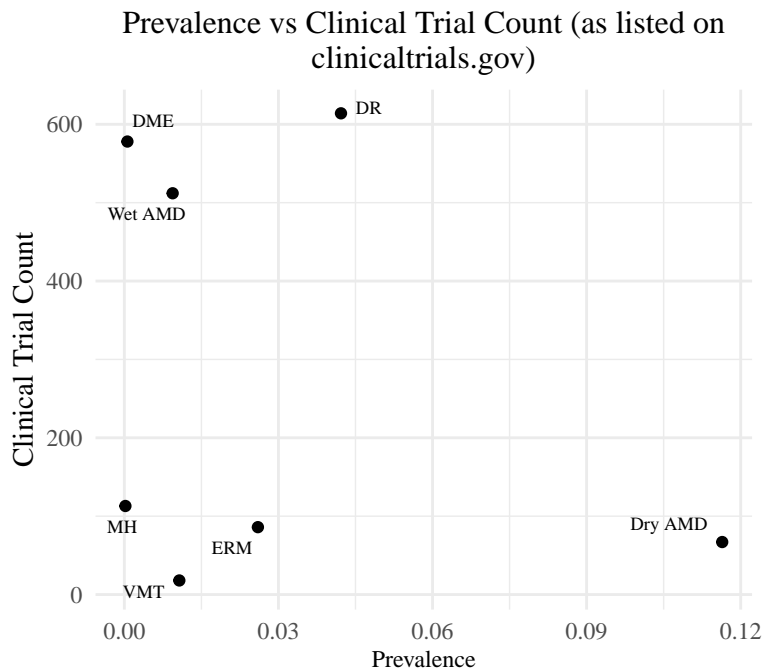


Metformin and AMD: Review of Current Literature

Prevalence, Clinical Trial Count, and DRCR Protocol Count



Dry AMD is a relatively common retinal disorder, but it is not currently the subject of DRCR protocols.



Dry AMD is the subject of relatively few trials registered on clinicaltrials.gov, considering its prevalence.

Note: Prevalence values are representative of adults ages 40 or older

Note: Insufficient data prevents a conclusive assessment of radiation retinopathy prevalence

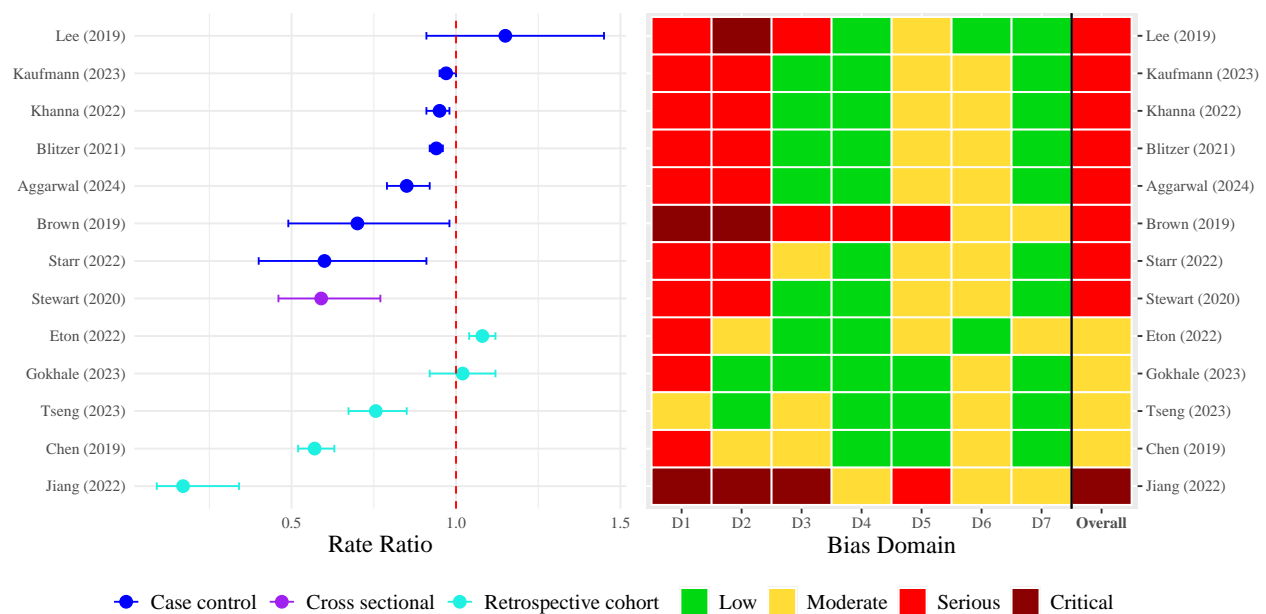
Prevalence Values Literature Review:

- Age Related Macular Degeneration (AMD) (Wet and Dry)
- Diabetic Retinopathy (DR)
- Diabetic Macular Edema (DME)
- Epiretinal Membrane (ERM)
- Vitreomacular Traction (VMT)
- Macular Hole (MH)
- Radiation Retinopathy (RR)

Number of Clinical Trials:

- Clinical Trials Website
- Data and Code Repository

Metformin's Effect on AMD: ROBINS-I Tool Bias Analysis



Bias Domains:

- D1:** Bias due to confounding
- D2:** Bias due to selection of participants
- D3:** Bias in classification of interventions
- D4:** Bias due to deviation from intended interventions
- D5:** Bias due to missing data
- D6:** Bias in measurement of outcomes
- D7:** Bias in selection of the reported result

Major limitations:

- Lee:** Case-control (selection bias)
- Kaufmann:** Case-control (selection bias)
- Khanna:** Case-control (selection bias)
- Blitzer:** Case-control (selection bias)
- Aggarwal:** Case-control (selection bias)
- Brown:** Case-control (selection bias)
- Starr:** Case-control (selection bias)
- Stewart:** Cross-sectional (no temporal information)
- Eton:** Unclear methods on time-dependent analysis
- Gokhale:** Young population (greater than 40 yr); short time frame for time-dependent analysis
- Tseng:** No time-dependent analysis
- Chen:** No time-dependent analysis
- Jiang:** No time-dependent analysis

ROBINS-I (Risk Of Bias In Non-randomized Studies – of Interventions) is used by the Cochrane Scientific Committee for assessing bias in non-randomized studies of interventions. [[ROBINS-I Tool homepage](#)]