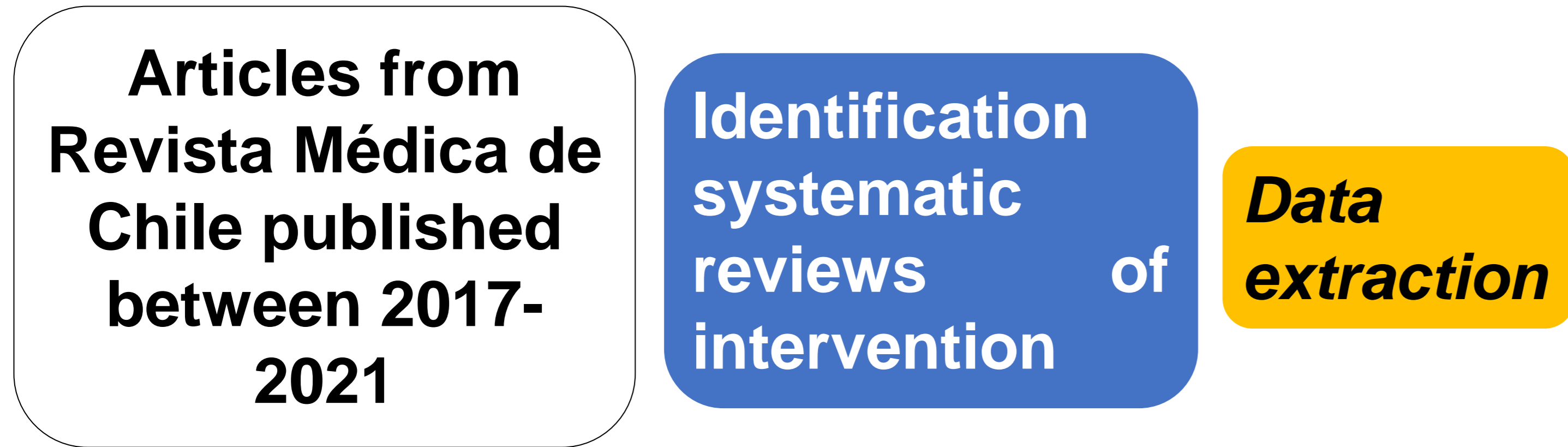


Assessing Spin Bias in a sample of Chilean Systematic Reviews (SRs) of interventions published between 2017-2021: few SRs, Low Quality, and Spin Bias presence

Background: Spin bias occurs when results of a study are misinterpreted throughout the report, suggesting contradictory conclusions. Higher risk of spin bias may lead to inaccurate clinical recommendations.

Methods

Scoping review



Funding Source

COI

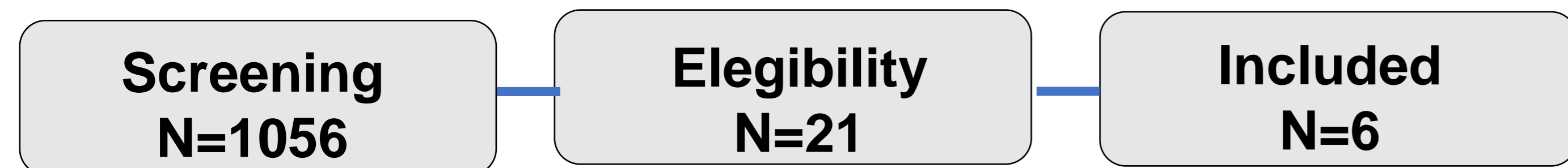
AMSTAR-2

PRISMA



Assessment of the presence of 9 most severe types of spin in abstracts by comparing abstracts with full reports in each study

Results



PRISMA

2 Reviews declared adherence

AMSTAR-2

1 review was classified as low and 5 as critically low

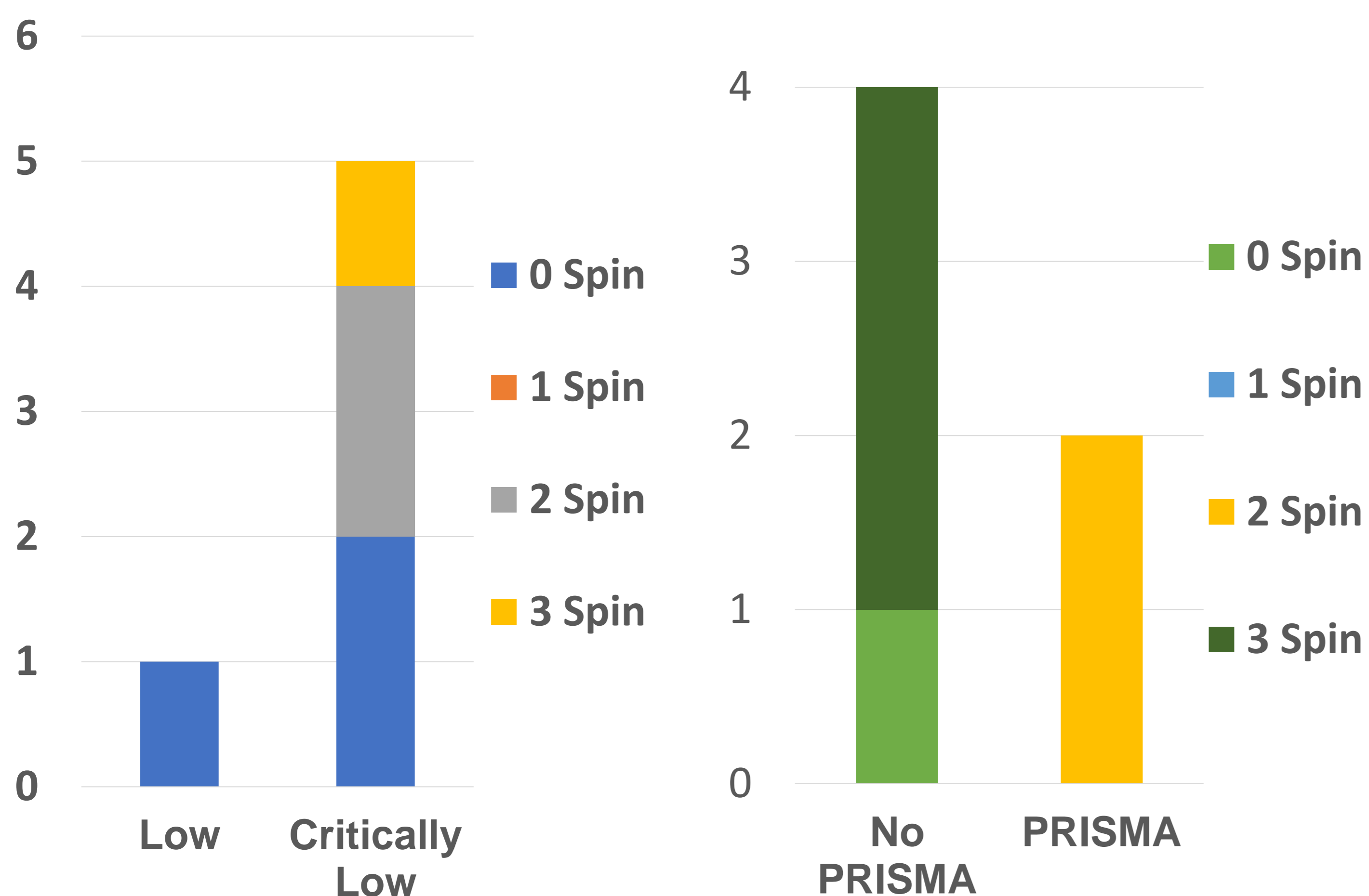


Figure 2: Spins vs AMSTAR rating

Figure 3: Spins vs PRISMA adherence

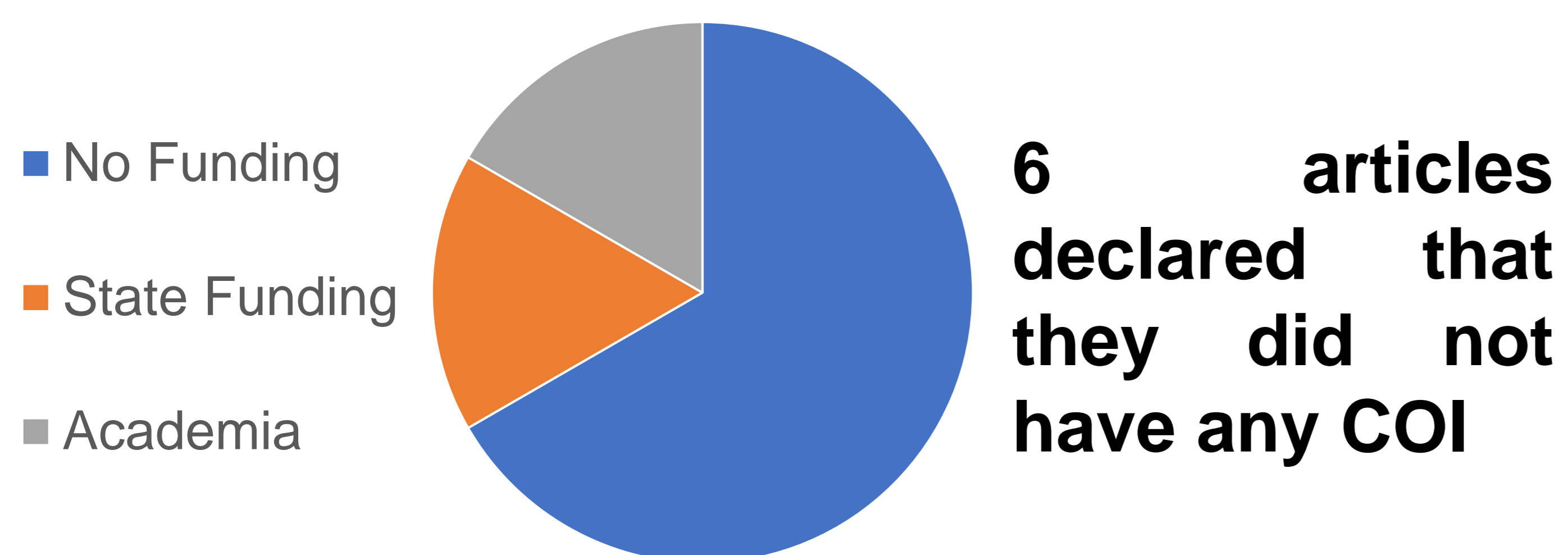


Figure 1: Sources of funding among systematic reviews

4 types of spin bias were present in 3 of the 6 abstracts

Type of spin bias	n=
Selective reporting or overemphasis on harm outcomes or analysis favoring the beneficial effect of the experimental intervention	2
Conclusion claims the beneficial effect of the experimental treatment despite high risk of bias in primary studies	2
Conclusion extrapolates the review's findings from a surrogate marker or a specific outcome to the global improvement of disease	2
Conclusion claims the beneficial effect of the experimental treatment despite reporting bias	2

Conclusions

- Less than 1% of the articles published in Revista Médica de Chile between 2017-2021 were SRs.
- Most of the interventional SRs published in Revista Médica de Chile between 2017-2021 have critically low methodological quality and do not declare adherence to PRISMA guidelines.
- Half of the interventional SRs had at least one type of spin bias on their abstracts.
- The number of studies included did not allow us to explore associations between spin bias, reporting quality, methodological quality, and COI.

Limitation: The spin bias assessment tool used is not widely validated and only applicable to interventional SRs