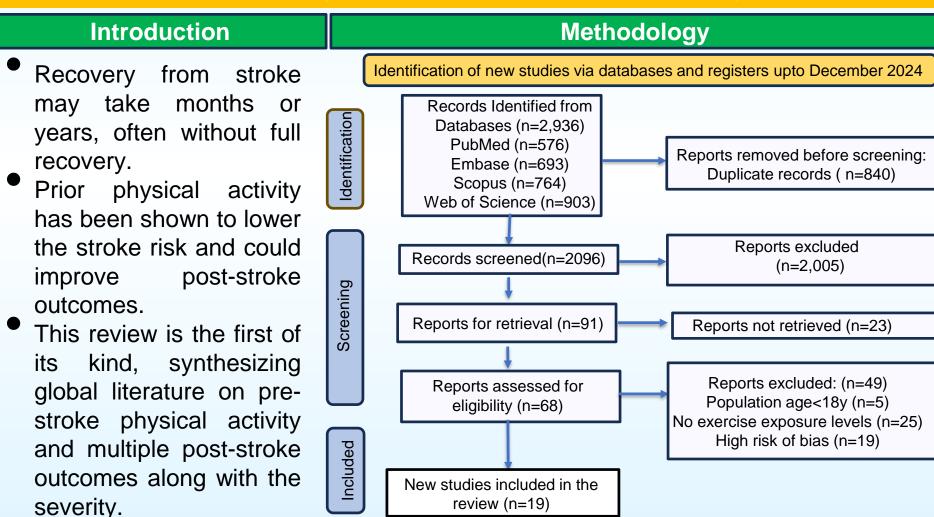


POST-STROKE OUTCOMES: A SYSTEMATIC REVIEW AND META-ANALYSIS

Poster ID 699

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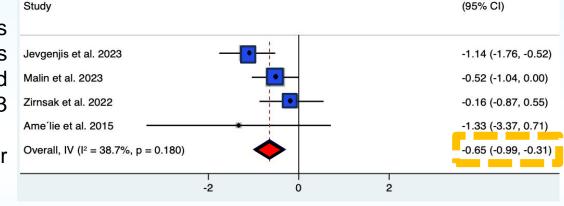
Methodology

- Quality of studies was assessed using the Newcastle-Ottawa scale.
- Random effect and common effect meta-analyses were performed to find the pooled estimates with 95% CI.

Results & Discussion

Our study showed Pre-stroke physical activity significantly reduces NIHSS score on admission compared to physical inactivity, indicating less stroke severity and better outcomes.

- For Meta-Analysis the outcomes determined were mean NIHSS scores on admission and the odds of a good functional outcome (mRS 0-2) at 3 months.
- The mRS (0-2) outcomes did not differ significantly between the two groups



(95% CI)

3.06 (1.34, 6.98)

1.20 (1.15, 1.25)

2.08 (1.21, 3.56)

1.20 (1.15, 1.25)

500

125.50 (28.05, 557.55)



Conclusion

- The study establishes the strong impact of pre-stroke physical activity on lowering stroke severity, and improving post-stroke outcomes like cognition, quality of life and mortality..
- However, the substantial heterogeneity in mRS (0-2) at 3 months underscores the need for further research to confirm these findings.
- This study highlights the need for a standardized method to measure physical activity, as the existing research relied on diverse methods and scales.

References

Hung SH, Ebaid D, Kramer S, Werden E, Baxter H, Campbell BC, Brodtmann A. Pre-stroke physical activity and admission stroke severity: A systematic review. *Int J Stroke*. 2021

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