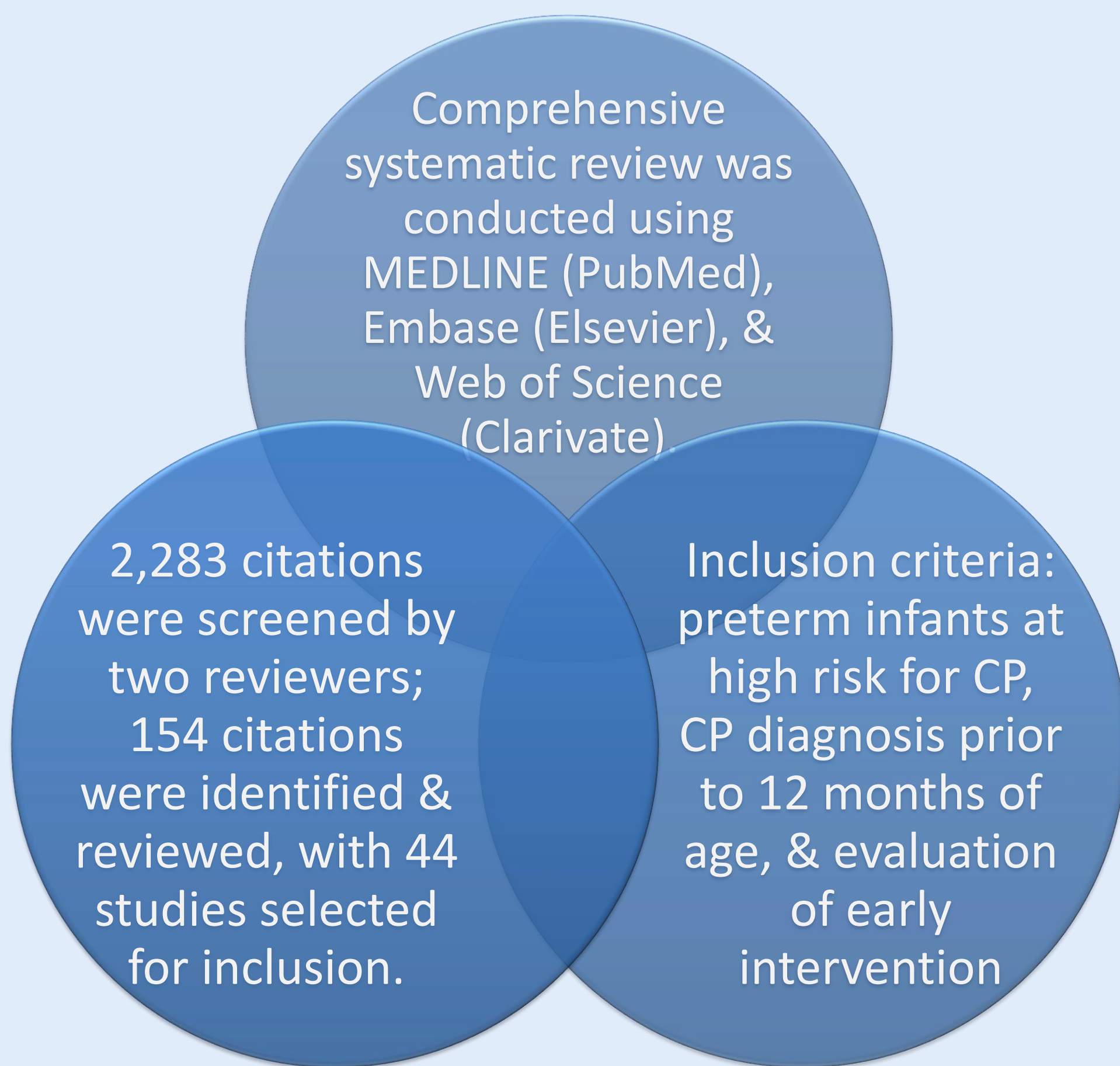


INTRODUCTION

- CP is the most common motor disability in childhood
- Preterm and ELBW infants are at increased risk for CP
- Early identification & intervention are critical to optimize neurodevelopmental outcomes & quality of life

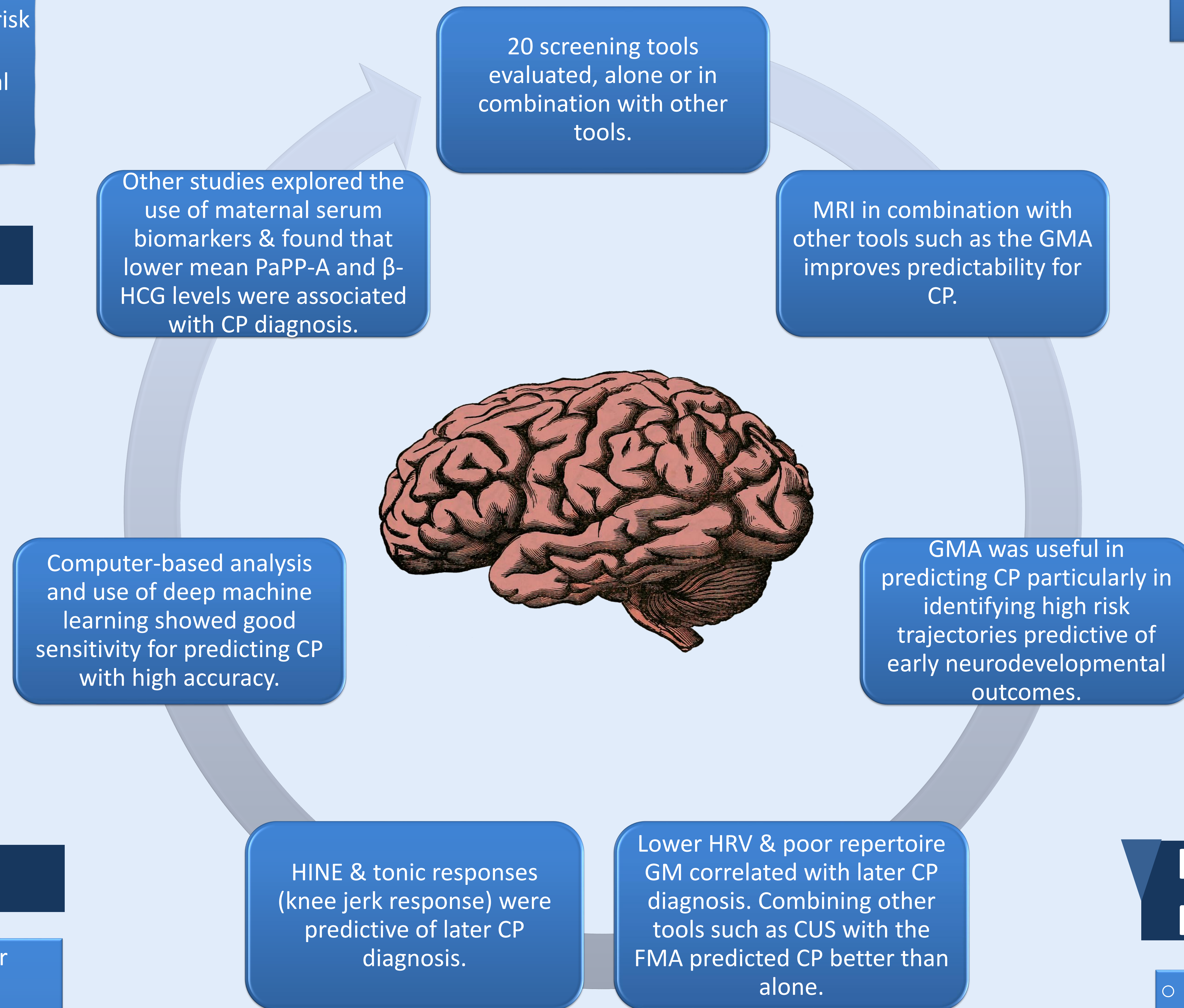
METHODS



CONCLUSIONS

- Using a combination of neuroimaging, motor performance, and neurologic assessments significantly improves diagnostic accuracy of diagnosing CP before 1 year of age
- Tools such as the GMA and MRI are especially effective, particularly when used together & when utilized in combination with other screening tools

RESULTS



PURPOSE

- To critically evaluate the predictive accuracy & clinical utility of various neonatal screening methods in facilitating the diagnosis of CP

Category	Examples
Neuroimaging	MRI, CUS
Motor Performance	GMA, FMA
Neurologic Examinations	HINE, Knee Jerk responses
Technological Tools	Computer-based analysis, Deep learning models
Biomarkers	Maternal serum PaPP-A, β -HCG, HRV

IMPLICATIONS FOR PRACTICE AND RESEARCH

- Further validation is needed for new technologies
- Early identification enables timely intervention, which may improve developmental outcomes & reduce long-term disability in this high-risk population