## SUPPLEMENTARY MATERIAL

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## Physiological Maturation Indicators as Determinants of Pubertal Growth in Orthodontic Treatment: A Scoping Review



Zalfaa Calulla Maharani<sup>1,\*</sup>, Gita Gayatri<sup>2</sup> and Erli Sarilita<sup>3</sup>

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## PRISMA 2020 Checklist

Section and Topic	Item #	Checklist Item	Location where Item is Reported
TITLE			-
Title	1	Identify the report as a systematic review.	NO
ABSTRACT			-
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	1
INTRODUCTION			-
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	2
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	2
METHODS			-
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	2
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	2
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	2
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	2
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	2
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	NO
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	2

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Study risk of bilas assessment 11 how many reviewers as of automation tools use Effect measures 12 Specify for each outcor presentation of results.  13a Describe the processes study intervention chan 213b Describe any methods missing summary statis 13c Describe any methods 213d Describe any methods 213d Describe any methods 313d Was performed, describe heterogeneity, and soft 313e Describe any methods analysis, meta-regressi 313f Describe any sensitivity 313f Describe any sensitivity 314 Describe any methods analysis, meta-regressi 315f Describe any methods 313f Describe 313f Descr	ne the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or used to decide which studies were eligible for each synthesis (e.g. tabulating the acteristics and comparing against the planned groups for each synthesis (item #5)). required to prepare the data for presentation or synthesis, such as handling of stics, or data conversions.  Used to tabulate or visually display results of individual studies and syntheses.  Used to synthesize results and provide a rationale for the choice(s). If meta-analysis be the model(s), method(s) to identify the presence and extent of statistical ware package(s) used.  Used to explore possible causes of heterogeneity among study results (e.g. subgroup on).	NO NO NO NO NO NO NO NO
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Reporting bias assessment 14 Describe any methods reporting biases).		
assessment 14 reporting biases).	secify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or esentation of results.  secribe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the udy intervention characteristics and comparing against the planned groups for each synthesis (item #5)). Secribe any methods required to prepare the data for presentation or synthesis, such as handling of issing summary statistics, or data conversions.  Secribe any methods used to tabulate or visually display results of individual studies and syntheses. Secribe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis are performed, describe the model(s), method(s) to identify the presence and extent of statistical terogeneity, and software package(s) used.  secribe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup palysis, meta-regression).  secribe any sensitivity analyses conducted to assess robustness of the synthesized results.  secribe any methods used to assess risk of bias due to missing results in a synthesis (arising from porting biases).  secribe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.  secribe the results of the search and selection process, from the number of records identified in the arch to the number of studies included in the review, ideally using a flow diagram. te studies that might appear to meet the inclusion criteria, but which were excluded, and explain why ey were excluded.  the each included study and present its characteristics.  or all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) to effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or ots.  or each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.  resent results of all statistical syntheses conducted. If meta-analys	NO
Certainty assessment 15 Describe any methods		NO
coroning accomment	used to assess certainty (or confidence) in the body of evidence for an outcome.	NO
RESULTS		-
search to the number of		3
Study selection 16b Cite studies that might they were excluded.	appear to meet the inclusion criteria, but which were excluded, and explain why	3
Study characteristics 17 Cite each included stud	y and present its characteristics.	3
Risk of bias in studies 18 Present assessments of	risk of bias for each included study.	NO
Results of individual studies 19 For all outcomes, press an effect estimate and plots.	ent, for each study: (a) summary statistics for each group (where appropriate) and (b) its precision (e.g. confidence/credible interval), ideally using structured tables or	4-7
20a For each synthesis, bri	efly summarise the characteristics and risk of bias among contributing studies.	NO
20b summary estimate and	its precision (e.g. confidence/credible interval) and measures of statistical	NO
20c Present results of all in	Present results of all investigations of possible causes of heterogeneity among study results.	NO
20d Present results of all se	ensitivity analyses conducted to assess the robustness of the synthesized results.	NO
Reporting biases 21 Present assessments of assessed.	risk of bias due to missing results (arising from reporting biases) for each synthesis	NO
Certainty of evidence 22 Present assessments of	certainty (or confidence) in the body of evidence for each outcome assessed.	NO
DISCUSSION		-
3	pretation of the results in the context of other evidence.	9
Discussion 23b Discuss any limitations	of the evidence included in the review.	10
23c Discuss any limitations	*	10
23d Discuss implications of	the results for practice, policy, and future research.	10
OTHER INFORMATION		-
		NO
	ew protocol can be accessed, or state that a protocol was not prepared.	NO
24c Describe and explain a	ny amendments to information provided at registration or in the protocol.	NO
Support 25 Describe sources of fin in the review.	ancial or non-financial support for the review, and the role of the funders or sponsors	11
Competing interests 26 Declare any competing	interests of review authors.	10
Availability of data, Report which of the fol	lowing are publicly available and where they can be found: template data collection rom included studies; data used for all analyses; analytic code; any other materials	NO

From: Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71
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