

**Supplementary material**

**Reference Equations for Oscillometry and Their Differences among Populations: A Systematic Scoping Review**

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**Table S1** Comprehensive search strategy for electronic databases and registries to identify studies for inclusion

Database or Registry	Search Strategy
MEDLINE (1946-present via OVID)	<p>Ovid MEDLINE(R) ALL &lt;1946 to June 15, 2021&gt;</p> <p>[mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]</p> <ol style="list-style-type: none"> <li>1. (oscillomet* OR FOT* OR IOS* OR AOS*).mp.</li> <li>2. (referen* OR predict* OR estimat* OR observ*).mp.</li> <li>3. (value* OR model* OR equation* OR measure* OR number* OR index* OR indices* OR parameter*).mp.</li> <li>4. (lung* OR pulmon* OR respirat* OR airway* OR breath* OR chest* OR PFT*).mp.</li> <li>5. (adult* OR mature* OR men* OR women*).mp.</li> <li>6. 1 and 2 and 3 and 4 and 5</li> </ol>
EMBASE	<p>Embase &lt;1974 to 2021 June 15&gt;</p> <p>[mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word]</p> <ol style="list-style-type: none"> <li>1. (oscillomet* OR FOT* OR IOS* OR AOS*).mp.</li> <li>2. (referen* OR predict* OR estimat* OR observ*).mp.</li> <li>3. (value* OR model* OR equation* OR measure* OR number* OR index* OR indices* OR parameter*).mp.</li> <li>4. (lung* OR pulmon* OR respirat* OR airway* OR breath* OR chest* OR PFT*).mp.</li> <li>5. (adult* OR mature* OR men* OR women*).mp.</li> <li>6. 1 and 2 and 3 and 4 and 5</li> </ol>
PubMed (with links to UofA e-journals)	<p>(((((oscillomet* OR FOT* OR IOS* OR AOS*) AND (referen* OR predict* OR estimat* OR observ*)) AND (value* OR model* OR equation* OR measure* OR number* OR index* OR indices* OR parameter*)) AND (lung* OR pulmon* OR respirat* OR airway* OR breath* OR chest* OR PFT*)) AND (adult* OR mature* OR men* OR women*))</p>
Scopus	<p>( TITLE-ABS-KEY (oscillomet* OR fot* OR ios* OR aos* ) AND TITLE-ABS-KEY (referen* OR predict* OR estimat* OR observ* ) AND TITLE-ABS-KEY (value* OR model* OR equation* OR measure* OR number* OR index* OR indices* OR parameter*) AND TITLE-ABS-KEY (lung* OR pulmon* OR</p>

	respirat* OR airway* OR breath* OR chest* OR pft*) AND TITLE-ABS-KEY (adult* OR mature* OR men* OR women*))
Web of Science Core Collection	TOPIC: (oscillomet* OR FOT* OR IOS* OR AOS*) AND TOPIC: (referen* OR predict* OR estimat* OR observ*) AND TOPIC: (value* OR model* OR equation* OR measure* OR number* OR index* OR indices* OR parameter*) AND TOPIC: (lung* OR pulmon* OR respirat* OR airway* OR breath* OR chest* OR PFT*) AND TOPIC: (adult* OR mature* OR men* OR women*)
Cochrane Database of Systematic Reviews (Cochrane Library)	oscillomet* OR FOT* OR IOS* OR AOS* in Title Abstract Keyword AND referen* OR predict* OR estimat* OR observ* in Title Abstract Keyword AND value* OR model* OR equation* OR measure* OR number* OR index* OR indices* OR parameter* in Title Abstract Keyword AND lung* OR pulmon* OR respirat* OR airway* OR breath* OR chest* OR PFT* in Title Abstract Keyword AND adult* OR mature* OR men* OR women* in Title Abstract Keyword - (Word variations have been searched)
Google Scholar	"reference values" AND "oscillometry" First 100 results used
Cochrane Protocols (Cochrane Library)	See "Cochrane Database of Systematic Reviews (Cochrane Library)"
PROSPERO	"reference values" AND "oscillometry"
PROSPERO = International Prospective Register of Systematic Reviews; FOT = forced oscillation technique; IOS = impulse oscillometry; AOS = airwave oscillometry.	