

**Multimedia Appendix 1 - Search terms.** Terms within columns were combined using the Boolean 'OR' operator, terms between columns were then combined with 'AND' – i.e. papers were retrieved if the title/abstract/ keywords contained at least one term from each column.

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digital	adherence	intervention	asthma
online	persistence	program*	
Internet	engagement	outcome	
wearable*	self-management		
mobile	perception*		
smart	psycholog*		
app	belief*		
application			
Monitor*			
electronic			
automated			
feedback			
SMS			
text			
IVR			
voice recognition			
text			
eHealth			

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\* denotes truncation