Appendix I: search terms and search methods

Database	Searches performed	Date	Notes
Dare	**1. [any field] "pulse oximeter" OR [any field] "pulse oximetry"**	January 7, 2015	The Dare tickbox was ticked for the search
Pubmed	1. ((("Infant"[Mesh]) OR "Child"[Mesh]) OR "Adolescent"[Mesh]) OR "Pediatrics"[Mesh] 2. (Newborn*[Title/Abstract] OR Neonat*[Title/Abstract] OR Baby*[Title/Abstract] OR Babies[Title/Abstract] OR Infant*[Title/Abstract] OR Child*[Title/Abstract] OR Kid*[Title/Abstract] OR Toddler*[Title/Abstract] OR Adoles*[Title/Abstract] OR Teen*[Title/Abstract] OR Boy*[Title/Abstract] OR Girl*[Title/Abstract] OR Paediatric*[Title/Abstract] OR Peadiatric*[Title/Abstract] OR Pediatric*[Title/Abstract]) 3. #1 OR #2 4. "Oximetry"[Mesh] 5. ("Pulse oximeter*"[Title/Abstract] OR "Pulse oximetry"[Title/Abstract]) 6. #4 OR #5 **7. #3 AND #6**	January 9, 2015	
Web of Science	1. TS=("Pulse oximeter*" OR "Pulse oximetry") OR TI=("Pulse oximeter*" OR "Pulse oximetry") 2. TS=(Newborn* OR Neonat* OR Baby* OR Babies OR Infant* OR Child* OR Kid* OR Toddler* OR Adoles* OR Teen* OR Boy* OR Girl* OR Paediatric* OR Peadiatric* OR Pediatric*) OR TI=(Newborn* OR Neonat* OR Baby* OR Babies OR Infant* OR Child* OR Kid* OR Toddler* OR Adoles* OR Teen* OR Boy* OR Girl* OR Paediatric* OR Peadiatric* OR Pediatric*) **3. #1 AND #2**	January 13, 2015	In "All databases" and for all years
Cochrane library	**1. "pulse oximeter" OR "pulse oximetry"**	January 8, 2015	In "Title, Abstract or Keywords" "Cochrane reviews", "Other reviews" and

			"Technology assessments" tick boxes were ticked
Medion	**1. Pulse oximeter** **2. Pulse oximetry**	January 8, 2015	In "Topics"
WHO Global Health Library	**1. Pulse oximeter** **2. Pulse oximeter** **3. Pulse oximetry** **4. Pulse oximetry**	January 8, 2015	#1 and #3 were in "title" and in "regional"; #2 and #4 were in "subject" and in "regional"
Embase	1. Pulse oximeter/ or pulse oximetry/ 2. ("Pulse oximeter*" or "Pulse oximetry").mp. 3. ("Pulse oximeter*" or "Pulse oximetry").m_titl. 4. #1 OR #2 OR #3 5. (Newborn* OR Neonat* OR Baby* OR Babies OR Infant* OR Child* OR Kid* OR Toddler* OR Adoles* OR Teen* OR Boy* OR Girl* OR Paediatric* OR Peadiatric* OR Pediatric*).mp. 6. (Newborn* OR Neonat* OR Baby* OR Babies OR Infant* OR Child* OR Kid* OR Toddler* OR Adoles* OR Teen* OR Boy* OR Girl* OR Paediatric* OR Peadiatric* OR Pediatric*).m_titl. 7. #5 OR #6 **8. #4 AND #7**	January 14, 2015	-#1 was done by "mapping to subject headings" but not ticking "explode" -mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword
Global Health	1. ("Pulse oximeter*" OR "Pulse oximetry").mp. 2. ("Pulse oximeter*" OR "Pulse oximetry").m_titl. 3. #1 or #2 4. (Newborn* OR Neonat* OR Baby* OR Babies OR Infant* OR Child* OR Kid* OR Toddler* OR Adoles* OR Teen* OR Boy* OR Girl* OR Paediatric* OR Peadiatric* OR Pediatric*).mp. 5. (Newborn* OR Neonat* OR Baby* OR Babies OR Infant* OR Child* OR Kid* OR Toddler* OR Adoles* OR Teen* OR Boy* OR Girl* OR Paediatric* OR Peadiatric* OR Pediatric*).m_titl. 6. #4 OR #5	January 14, 2015	mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes

	7. #3 AND #6		
CINAHL	1. TI ("Pulse oximeter*" OR "Pulse oximetry") OR AB ("Pulse oximeter*" OR "Pulse oximetry") 2. TI (Newborn* OR Neonat* OR Baby* OR Babies OR Infant* OR Child* OR Kid* OR Toddler* OR Adoles* OR Teen* OR Boy* OR Girl* OR Paediatric* OR Peadiatric* OR Pediatric*) OR AB (Newborn* OR Neonat* OR Baby* OR Babies OR Infant* OR Child* OR Kid* OR Toddler* OR Adoles* OR Teen* OR Boy* OR Girl* OR Paediatric* OR Peadiatric* OR Pediatric*) **3. #1 AND #2**	January 14, 2015	

Note: the search(es) shown in **bold** is/are the one(s) from which results were taken

The websites of the following organizations were searched using the search terms 'pulse oximeter' and 'pulse oximetry' to obtain unpublished reports: the World Health Organization, the World Bank, USAID, Public Health England, the UK's Department of Health, NHS Evidence – NICE, PATH, Save the Children, Save the Children UK, MSF, Oxfam, UNICEF, the International Union Against Tuberculosis and Lung Disease, the British Lung Foundation, and the World Heart Foundation.