

Appendix 1. Search strategy and results

A total of 20 published resources were collated to guide physicians in dealing with refugee children in urgent and emergency care.

Firstly, our systematic search identified 9 relevant publications; These covered 1) infection disease screening and guidance on immunisations¹, 2) general health assessments^{2,3}, 3) access to (mental) health services⁴, 4) health policies⁵, 5) development of guidelines⁶, 6) overview of health profiles⁷, 7) mental health assessments⁸.

Secondly, searching websites of national societies yielded another 5 guidelines, from Denmark, Germany, The Netherlands, Spain, and the United Kingdom.⁹⁻¹³ These generally discussed broad initial health assessments (UK, The Netherlands, Denmark), or focussed more specifically on immunisations (Spain) or infection screening (Germany).

In addition, six unique documents were uploaded by 13 different survey respondents (one also identified by our search), detailing 1) immunisations in Germany (n=1)¹⁴, Switzerland (n=1)¹⁵ and Spain (n=1)¹⁶; 2) ID screening in Germany (n=1)¹⁷ and Switzerland (n=1)¹⁵; 3) healthcare pathways for unaccompanied asylum seeking children in North London (unpublished document), UK; 4) safeguarding recommendations in Sussex, UK (unpublished document).



Search Embase (OVID)

Embase 2090 Hits with 44 eligible for further re-evaluation. 4 guidelines included.

Results (4):

- 1) (Europe) (mental health) ⁸
- 2) (general/other) ⁵
- 3) (general) ³
- 4) (ID) ¹⁷

References

3. Jansson P. [Treatment of asylum seeking children]. *Ugeskr Laeger*. 2010;172(7):563; author reply 563.
5. Hjern A, Østergaard LS, Norredam M, de Luna CM-M, Goldfeld S. Health policies for migrant children in Europe and Australia. *Lancet*. 2017;389(10066):249. doi:10.1016/s0140-6736(17)30084-3
8. Hebebrand J, Anagnostopoulos D, Eliez S, Linse H, Pejovic-Milovancevic M, Klasen H. A first assessment of the needs of young refugees arriving in Europe: what mental health professionals need to know. *Eur Child Adolesc Psychiatry*. 2016;25(1):1-6. doi:10.1007/s00787-015-0807-0
17. Pfeil J, Kobbe R, Trapp S, Kitz C, Hufnagel M. [Recommendations for the diagnosis and prevention of infectious diseases in pediatric and adolescent refugees in Germany : Statement of the German Society of Pediatric Infectious Diseases, the Society of Tropical Pediatrics and International Child Health,. *Internist (Berl)*. 2016;57(5):416-433. doi:10.1007/s00108-016-0040-z

Search strategy

Embase (1974 to Feb 16) last performed on April 7th 2018

1	Exp child/	1902938
2	child/	1245301
3	infant/	437336
4	exp toddler/	3364
5	newborn/	374900
6	exp juvenile/	2542617
7	exp minor(person)*/	473
8	adolescent/	1190802
9	exp toddler/	3364

10	exp refugee/	9675
11	exp migrant/	27926
12	exp asylum seeker/	498
13	exp Europe/	1242031
14	limit 12 yrs -2000- Current	984160
15	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 Or 9	2542870
16	10 or 11 or 12	27926
17	15 and 16	7100
18	13 and 17	2350
19	14 and 18	2090

Search MedLine

MedLine1146 Hits with 63 eligible for further re-evaluation. 0 guidelines included.

No guidelines on refugee child health in emergency care identified.

Search strategy

Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily, Ovid MEDLINE and Versions(R) 1946 to February 14, 2018 (last performed on April 7th 2018).

1	Exp Fever/dh, dt rh, th (Diet Therapy, Drug Therapy, Rehabilitation, Therapy-Specific Subheadings have been included)	5610
2	(fever* or hyperthermia* or pyrexia* or febrile or (sweating adj 1 sickness) or (sudor anglicus or temperature increase* or temperature elevat* or increased body temperature above normal or raised temperature* temperature raised or high body temperature*) mp. (mp=title, abstract, original title, name of substance word, subject heading word, keeyword heading word, prtocol suplementary concept word, rare disease supplementary concept word, unique idenfifier, synomymys)	255985
3	Exp Therapeutics/ or exp Rehabilitation/ or exp disease management/ or exp Medication Therapy Management/ or Case Management/ or (therap* or treat* or rehab*). Mp. (mp=title, abstract, orginal title, name of subsatnce word, subject	8679995

	heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonymys)	
4	2 and 3	125342
5	1 or 4	126773
6	Adolescent/ ore exp child/ or exp infant/ or (child* or pead* or neonate* or baby or babies or infant? Or adolescent? Or toddler?) mp. (mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonymys)	3429855
7	5 and 6	32461
8	Guideline/ or Practice Guideline/ or Practice Guideline as Topic/ Guideline Adherence/	148698
9	((Guideline* or pathway* or protocol* or algorithm* or polic* or standard* or recommendation* or guidance*) adj2 (clinical or treatment* or diagnos* or management or antibiotic*)) mp. (mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonymys)	207478
10	8 or 9	329613
11	7 and 10	1427
12	Limit 11 to yr="2000-Current"	1146

Search Pubmed

Pubmed625 Hits with 29 eligible for further re-evaluation. 7 guidelines included.

Results (7)

- 1) *not true guideline or care recommendations (other) ¹
- 2) (Europe and Australia) Review of guidelines (mental health) ⁴
- 3) (US) (general) ²
- 4) (already in Embase; nr 2 above) (general/other) ⁵
- 5) (already in Embase; nr 4 above) (ID) ¹⁷
- 6) (Canada) (general) ⁶

7) *not true guideline or care recommendations (US) (other) ⁷

References

1. Zeitlmann N, George M, Falkenhorst G. Polioimpfung und Stuhlscreening in deutschen Erstaufnahmeeinrichtungen für Asylsuchende, November 2013–Januar 2014. *Bundesgesundheitsblatt - Gesundheitsforsch - Gesundheitsschutz*. 2016;59(5):584-591. doi:10.1007/s00103-016-2334-7
2. Dicker S, Stauffer WM, Mamo B, Nelson C, O'Fallon A. Initial refugee health assessments. New recommendations for Minnesota. *Minn Med*. 2010;93(4):45-48.
4. Thomson MS, Chaze F, George U, Guruge S. Improving Immigrant Populations' Access to Mental Health Services in Canada: A Review of Barriers and Recommendations. *J Immigr Minor Heal*. 2015;17(6):1895-1905. doi:10.1007/s10903-015-0175-3
5. Hjern A, Østergaard LS, Norredam M, de Luna CM-M, Goldfeld S. Health policies for migrant children in Europe and Australia. *Lancet*. 2017;389(10066):249. doi:10.1016/s0140-6736(17)30084-3
6. Swinkels H, Pottie K, Tugwell P, Rashid M, Narasiah L. Development of guidelines for recently arrived immigrants and refugees to Canada: Delphi consensus on selecting preventable and treatable conditions. *CMAJ*. 2011;183(12):E928-32. doi:10.1503/cmaj.090290
7. Yun K, Matheson J, Payton C, et al. Health Profiles of Newly Arrived Refugee Children in the United States, 2006-2012. *Am J Public Health*. 2016;106(1):128-135. doi:10.2105/AJPH.2015.302873
17. Pfeil J, Kobbe R, Trapp S, Kitz C, Hufnagel M. [Recommendations for the diagnosis and prevention of infectious diseases in pediatric and adolescent refugees in Germany : Statement of the German Society of Pediatric Infectious Diseases, the Society of Tropical Pediatrics and International Child Health,. *Internist (Berl)*. 2016;57(5):416-433. doi:10.1007/s00108-016-0040-z

Search strategy

With all filters 144 hits.

All filters, but NOT „Europe“ 625 hits.

Out of this search 29 papers eligible for further evaluation.

Total included 7

((((((((child(MeSH Terms))or child) or minor) or juvenile) or ifant) or newborn) or young)) AND (((refugee(MeSH Terms) OR refugee) or migrant) or asylum seeker) AND ((Europe(MeSH Terms)) Or Europe)) AND (((guideline) or pathway) or recommendation) or policy) or guideline(MeSHTerm))	625
--	-----

Search Cochrane

Cochrane 75 Hits with 5 eligible for further re-evaluation. 0 guidelines included.

Search strategy (last performed on April 7th 2018)

1	MeSH descriptor(child) explode all trees	296
2	child	107224
3	MeSH descriptor (Infant) explode all trees	15843
4	newborn	23301
5	minor	16065
6	migrant	233
7	refugee	193
8	MeSh descriptor(refugee) explode all trees	95
9	guideline	10414
10	recommendation	5511
11	policy	12189
12	MeSH descriptor(Guideine) explode all trees	26
13	#1 or #2 or #3 or #4 or #5	132388
14	#6 or #7 or #8	443
15	#9 or #10 or #11 or #12	25921
16	#13 and #14	195
17	#16 and #15	75

Search of paediatric national societies.

Last search performed October 1st 2018

Country	National Society	available through website	guidelines	comments
Albania	Albanian Pediatric Society	www.aps.al	NO	
Armenia	Institute of Child and Adolescent Health; Arabkir medical centre	www.arabkirjmc.am	NO	
Austria	Austrian Pediatric Society; Österreichische Gesellschaft für Kinder- und Jugendheilkunde	www.paediatric.at	NO	
Belgium	Belgische Vereniging voor Kindergeneeskunde	www.bvksbp.be	NO	
Bulgaria	Bulgarian Pediatric Association	www.pediatrica-bg.eu	NO	
Croatia	Croatian Pediatric Society	www.hpd.com.hr	NO	
Cyprus	Cyprus Paediatric Society	www.child.org.cy	NO	
Czech Republic	Czech Pediatric Society	www.cpsjep.cz	NO	
Denmark	Dansk Paediatrik Selskab	www.paediatric.dk	Yes	https://www.sst.dk/da/sundhed-og-livsstil/migranter
Estonia	Estonian Paediatric Association	www.elselts.ee	NO	
Finland	Finnish Paediatric Association	www.suomenlastenlaakariyhdistys.fi	NO	summary of migrant children's legal rights
France	French Society of Pediatrics ; Société Française de Pédiatrie (SFP)	www.sfpediatric.com	NO	
The Former Yugoslav Republic of Macedonia	Pediatric Association of Macedonia	www.zpm.org.mk	NO	
Georgia	Georgian Pediatric Association	www.acadpediatr.ge	NO	
Germany	Deutsche Gesellschaft für Kinder- und Jugendmedizin	www.dgkj.de	Yes	dgpi.de/go/wp-content/uploads/2015/10/Fluechtlinge_DGPI-GTP-BVKJ-Stellungnahme_V1.4_22Nov2015.pdf
Greece	Hellenic Paediatric Society	www.e-child.gr	NO	
Hungary	Hungarian Pediatric Association	www.gyermekorvostarsasag.hu	NO	
Ireland	Royal College of Physician of Ireland	www.rcpi.ie	NO	summary of migrant children's legal rights

Israel	Israel Pediatric Association	www.pediatrics.org.il	NO	
Italy	Societa Italiana Ricerca Pediatrica	www.sirped.it	NO	
Lithuania	Lithuanian Paediatric Association	www.pediatrija.org	NO	
Luxembourg	Societe Luxembourgeoise de Pediatrie	sante.public.lu/fr/annuaire/s/societe-luxembourgeoise-pediatrie/index.html	NO	
Moldova	Moldovan Pediatric Society	www.pediatru.md	NO	
Montenegro	Montenegro Pediatric Association	n/a	NO	
The Netherlands	Pediatric Association of the Netherlands	www.nvk.nl	Yes	www.tulipsforchildhealth.nl/activities/nvk-dutch-association-of-pediatrics-congress
Poland	Polish Pediatric Society	www.ptp.edu.pl	NO	
Portugal	Portuguese Society of Pediatrics	www.spp.pt	NO	
Romania	Romanian Society of Pediatrics	www.srpmed.ro	NO	
Russia	Russian Public Academy of Pediatrics	www.pediatr-russia.ru/eng/	NO	
Serbia	Paediatric Association of Serbia	www.imd.org.rs/udruzenje-pedijatara	NO	
Slovakia	Slovakian Paediatric Society	www.sls-sps.sk	NO	
Slovenia	Slovenian Paediatric Society	www.zzp.si	NO	
Spain	Spanish Association of Pediatrics	www.aeped.es	Yes	https://vacunasaep.org/documentos/manual/cap-12
Sweden	Swedish Paediatric Society	www.blf.net	NO	
Turkey	Turkish Pediatric Association	www.turkpediatri.org.tr	NO	
United Kingdom	Royal College of Paediatrics and Child Health	www.rcpch.ac.uk	Yes	
<i>Non_european countries (selected)</i>				
Canada	Canadian paediatric society	www.cps.ca	Yes	https://www.enfantsneocanadiens.ca/e-checklist

Included resources:

9–13

9. Nederlandse Vereniging voor Kindergeneeskunde [Dutch Society of Paediatrics]: Dossier Kinderen van Vluchtelingen. <https://www.nvk.nl/Nieuws/Dossiers/Dossier-Kinderen-van-vluchtelingen>. Accessed January 18, 2019.
10. Royal College of Paediatrics and Child Health: Refugee and unaccompanied asylum-seeking children and young people. <https://www.rcpch.ac.uk/resources/refugee-unaccompanied-asylum-seeking-children-young-people>. Accessed January 18, 2019.
11. Sundhedsstyrelsen: Migranternes sundhed. <https://www.sst.dk/da/sundhed-og-livsstil/migranter>. Accessed January 18, 2019.
12. Empfehlungen zur infektiologischen Versorgung von Flüchtlingen im Kindes- und Jugendalter in Deutschland. Krankenhaus-Hygiene +

- Infektionsverhütung. doi:10.1016/j.khinf.2015.12.008
13. Comité Asesor de Vacunas de la Asociación Española de Pediatría. Sección III. Inmunización en circunstancias especiales: 12. VACUNACIÓN DE NIÑOS INMIGRANTES, REFUGIADOS Y ADOPTADOS. Manual de vacunas en línea de la AEP [Internet]. Madrid. <https://vacunasaep.org/documentos/manual/cap-12>. Published 2018. Accessed March 1, 2019.

Documents provided by respondents:

Six unique documents were uploaded by 13 different survey respondents (one also identified by our search), detailing 1) immunisations in Germany (n=1)¹⁴, Switzerland (n=1)¹⁵ and Spain (n=1)¹⁶; 2) ID screening in Germany (n=1)¹⁷ and Switzerland (n=1)¹⁵; 3) healthcare pathways for refugee children (/unaccompanied asylum seeking children) in North London (unreferenced), UK; 4) safeguarding recommendations in Sussex, UK (unreferenced).

14. Koch-Institut R. Konzept zur Umsetzung frühzeitiger Impfungen bei Asylsuchenden nach Ankunft in Deutschland. 2015. doi:10.17886/EpiBull-2015-011
15. Bernhard S, Büttcher M, Heining U, et al. Guidance for testing and preventing infections and updating immunisations in asymptomatic refugee children and adolescents in Switzerland. *Paediatr Conf Proc*. 2016;27:1-8.
16. Cilleruelo Ortega MJ, García Sánchez N. acunación en niños adoptados, inmigrantes y refugiados. Vacunación de niños viajeros. *Pediatr Integr*. 2015;XIX(10):702.e1-702.e10.
17. Pfeil J, Kobbe R, Trapp S, Kitz C, Hufnagel M. [Recommendations for the diagnosis and prevention of infectious diseases in pediatric and adolescent refugees in Germany : Statement of the German Society of Pediatric Infectious Diseases, the Society of Tropical Pediatrics and International Child Health, . *Internist (Berl)*. 2016;57(5):416-433. doi:10.1007/s00108-016-0040-z

References

1. Zeitlmann N, George M, Falkenhorst G. Polioimpfung und Stuhlscreening in deutschen Erstaufnahmeeinrichtungen für Asylsuchende, November 2013–Januar 2014. *Bundesgesundheitsblatt - Gesundheitsforsch - Gesundheitsschutz*. 2016;59(5):584-591. doi:10.1007/s00103-016-2334-7
2. Dicker S, Stauffer WM, Mamo B, Nelson C, O'Fallon A. Initial refugee health assessments. New recommendations for Minnesota. *Minn Med*. 2010;93(4):45-48.
3. Jansson P. [Treatment of asylum seeking children]. *Ugeskr Laeger*. 2010;172(7):563; author reply 563.
4. Thomson MS, Chaze F, George U, Guruge S. Improving Immigrant Populations' Access to Mental Health Services in Canada: A Review of Barriers and Recommendations. *J Immigr Minor Heal*. 2015;17(6):1895-1905. doi:10.1007/s10903-015-0175-3
5. Hjern A, Østergaard LS, Norredam M, de Luna CM-M, Goldfeld S. Health policies for migrant children in Europe and Australia. *Lancet*. 2017;389(10066):249. doi:10.1016/s0140-6736(17)30084-3
6. Swinkels H, Pottie K, Tugwell P, Rashid M, Narasiah L. Development of guidelines for recently arrived immigrants and refugees to Canada: Delphi consensus on selecting preventable and treatable conditions. *CMAJ*. 2011;183(12):E928-32. doi:10.1503/cmaj.090290
7. Yun K, Matheson J, Payton C, et al. Health Profiles of Newly Arrived Refugee Children in the United States, 2006-2012. *Am J Public Health*. 2016;106(1):128-135. doi:10.2105/AJPH.2015.302873
8. Hebebrand J, Anagnostopoulos D, Eliez S, Linse H, Pejovic-Milovancevic M, Klasen H. A first assessment of the needs of young refugees arriving in Europe: what mental health professionals need to know. *Eur Child Adolesc Psychiatry*. 2016;25(1):1-6. doi:10.1007/s00787-015-0807-0
9. Nederlandse Vereniging voor Kindergeneeskunde [Dutch Society of Paediatrics]: Dossier Kinderen van Vluchtelingen. <https://www.nvk.nl/Nieuws/Dossiers/Dossier-Kinderen-van-vluchtelingen>. Accessed January 18, 2019.
10. Royal College of Paediatrics and Child Health: Refugee and unaccompanied asylum seeking children and young people. <https://www.rcpch.ac.uk/resources/refugee-unaccompanied-asylum-seeking-children-young-people>. Accessed January 18, 2019.
11. Sundhedsstyrelsen: Migranternes sundhed. <https://www.sst.dk/da/sundhed-og-livsstil/migranter>. Accessed January 18, 2019.
12. Empfehlungen zur infektiologischen Versorgung von Flüchtlingen im Kindes- und Jugendalter in Deutschland. Krankenhaus-Hygiene + Infektionsverhütung. doi:10.1016/j.khinf.2015.12.008
13. Comité Asesor de Vacunas de la Asociación Española de Pediatría. Sección III. Inmunización en circunstancias especiales: 12. VACUNACIÓN DE NIÑOS INMIGRANTES, REFUGIADOS Y ADOPTADOS. Manual de vacunas en línea de la AEP [Internet]. Madrid. <https://vacunasaep.org/documentos/manual/cap-12>. Published 2018. Accessed March 1, 2019.
14. Koch-Institut R. Konzept zur Umsetzung frühzeitiger Impfungen bei Asylsuchenden nach Ankunft in Deutschland. 2015. doi:10.17886/EpiBull-2015-011
15. Bernhard S, Büttcher M, Heininger U, et al. Guidance for testing and preventing infections and updating immunisations in asymptomatic refugee children and adolescents in Switzerland. *Paediatr Conf Proc*. 2016;27:1-8.
16. Cilleruelo Ortega MJ, García Sánchez N. vacunación en niños adoptados, inmigrantes y refugiados. Vacunación de niños viajeros. *Pediatr Integr*. 2015;XIX(10):702.e1-702.e10.
17. Pfeil J, Kobbe R, Trapp S, Kitz C, Hufnagel M. [Recommendations for the diagnosis and prevention of infectious diseases in pediatric and adolescent refugees in Germany : Statement of the German Society of Pediatric Infectious Diseases, the Society of Tropical Pediatrics and International Child Health, . *Internist (Berl)*. 2016;57(5):416-433. doi:10.1007/s00108-016-0040-z