

## Supplementary Table 1

ID	Bibliographic citation	Source
1	Aebischer ML, Martorana MC, Costa F, et al. Evaluation of the sensitivity of microfilter paper assays in an anthropological study: results of samples from Cameroon and Tanzania. <i>Anthropologischer Anzeiger</i> . 1990;48(1):15-23.	Pubmed
2	Agasa B, Bosunga K, Opara A, et al. Prevalence of sickle cell disease in a northeastern region of the Democratic Republic of Congo: what impact on transfusion policy? <i>Transfusion Medicine</i> . 2010;20(1):62-65.	Pubmed
3	Al Arrayed S. Campaign to control genetic blood diseases in Bahrain. <i>Community Genetics</i> . 2005;8(1):52-55.	Pubmed
4	Al Arrayed S, Al Hajeri A. Newborn screening services in Bahrain between 1985 and 2010. <i>Advances in Hematology</i> . 2012:903219.	Pubmed
5	Al Hosani H, Salah M, Osman HM, Farag HM, Anvery SM. Incidence of haemoglobinopathies detected through neonatal screening in the United Arab Emirates. <i>Eastern Mediterranean Health Journal</i> . 2005;11(3):300-307.	Pubmed
6	Al Hosani H, Salah M, Osman HM, et al. Expanding the comprehensive national neonatal screening programme in the United Arab Emirates from 1995 to 2011. <i>Eastern Mediterranean Health Journal</i> . 2014;20(1):17-23.	Pubmed
7	Al-Awamy BH, Al-Muzan M, Al-Turki M, Serjeant GR. Neonatal screening for sickle cell disease in the Eastern Province of Saudi Arabia. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> . 1984;78(6):792-794.	Pubmed
8	Alkindi S, Al Zadjali S, Al Madhani A, et al. Forecasting hemoglobinopathy burden through neonatal screening in Omani neonates. <i>Hemoglobin</i> . 2010;34(2):135-144.	Pubmed
9	Al-Nood H, Al-Ismael S, King L, May A. Prevalence of the sickle cell gene in Yemen: a pilot study. <i>Hemoglobin</i> . 2004;28(4):305-315.	Pubmed
10	Diallo DA. Sickle cell disease in Africa: current situation and strategies for improving the quality and duration of survival. <i>Bulletin of the Académie Nationale de Médecine</i> . 2008;7:1361-1373. Complemented by <i>Personal Communication</i> .	Preliminary studies
11	Fattoum S. [Hemoglobinopathies in Tunisia. An updated review of the epidemiologic and molecular data]. <i>Tunisie Medicale</i> . 2006;84(11):687-696.	Pubmed
12	Hajer S, Neila T, Sondess HF, et al. A lower-cost protocol for sickle cell disease neonatal screening in Tunisia. <i>Annals of Saudi Medicine</i> . 2012;32(1):49-52.	Pubmed
13	Kafando E, Sawadogo M, Cotton F, Vertongen F, Gulbis B. Neonatal screening for sickle cell disorders in Ouagadougou, Burkina Faso: a pilot study. <i>Journal of Medical Screening</i> . 2005;12(3):112-114.	Pubmed
14	Khoriaty E, Halaby R, Berro M, Sweid A, Abbas HA, Inati A. Incidence of sickle cell disease and other hemoglobin variants in 10,095 lebanese neonates. <i>Public Library of Science One</i> . 2014;9(9):e105109.	Pubmed
15	Kulkarni AG, Jekeme SD. Cord blood screening for haemoglobinopathies in northern Nigeria. <i>Annals of Tropical Medicine and Parasitology</i> . 1986;80(5):549-551.	Pubmed
16	Lallemant M, Galacteros F, Lallemant-Le coeur S, et al. Hemoglobin abnormalities. An evaluation on new-born infants and their mothers in a maternity unit close to Brazzaville (P.R. Congo). <i>Human Genetics</i> . 1986;74(1):54-58.	Preliminary studies
17	Le Hesran JY, Personne I, Personne P, et al. Longitudinal study of Plasmodium falciparum infection and immune responses in infants with or without the sickle cell trait. <i>International Journal of Epidemiology</i> . 1999;28(4):793-798.	Preliminary studies
18	Mbodj M, Ndoye O, Diarra M, et al. [Sickle cell disease neonatal screening. First evaluation]. <i>Dakar Medical</i> . 2003;48(3):202-205.	Pubmed
19	McGann PT, Ferris MG, Ramamurthy U, et al. A prospective newborn screening and treatment program for sickle cell anemia in Luanda, Angola. <i>American Journal of Hematology</i> . 2013;88(12):984-989.	Pubmed
20	Mohammed AM, Al-Hilli F, Nadkarni KV, Bhagwat GP, Bapat JP. Hemoglobinopathies and glucose-6-phosphate dehydrogenase deficiency in hospital births in Bahrain. <i>Annals of Saudi Medicine</i> . 1992;12(6):536-539.	Pubmed

21	Moreno JL, Baribwira C. The epidemiology of neonatal sickle-cell-anemia in Bujumbura (Burundi). <i>Annales de Pédiatrie</i> . 1994;41(4):215-218.	Preliminary studies
22	Munyanganizi R, Cotton F, Vertongen F, Gulbis B. Red blood cell disorders in Rwandese neonates: screening for sickle cell disease and glucose-6-phosphate dehydrogenase deficiency. <i>Journal of Medical Screening</i> . 2006;13(3):129-131.	Pubmed
23	Mutesa L, Boemer F, Ngendahayo L, et al. Neonatal screening for sickle cell disease in Central Africa: a study of 1825 newborns with a new enzyme-linked immunosorbent assay test. <i>Journal of Medical Screening</i> . 2007;14(3):113-116.	Pubmed
24	Nasserullah Z, Alshammari A, Abbas MA, et al. Regional experience with newborn screening for sickle cell disease, other hemoglobinopathies and G6PD deficiency. <i>Annals of Saudi Medicine</i> . 2003;23(6):354-357.	Pubmed
25	North ML, Piffaut MC, Duwig I, Locoh-Donou AG, Locoh-Donou AM. Detection of haemoglobinopathies at birth in Togo. <i>Nouvelle Revue Française d'Hématologie</i> . 1988;30(4):237-241.	Pubmed
26	Odunvbun ME, Okolo AA, Rahimy CM. Newborn screening for sickle cell disease in a Nigerian hospital. <i>Public Health</i> . 2008;122(10):1111-1116.	Pubmed
27	Ohene-Frempong K, Oduro J, Tetteh H, Nkrumah F. Screening newborns for sickle cell disease in Ghana. <i>Pediatrics</i> . 2008;121(Supplement 2):S120-S121. Complemented by <i>Personal Communication</i> .	Pubmed
28	Oudart JL, Diadihou F, Sarrat H, Satge P. [Hemoglobin of the African newborn infant. Results of an investigation in Senegal]. <i>Annales de Pédiatrie</i> . 1968;15(12):773-781.	Pubmed
29	Richard-Lenoble D, Toublanc JE, Zinsou RD, Kombila M, Carme B. [Results of a systematic study of drepanocytosis in 1,500 Gabonese using hemoglobin electrophoresis]. <i>Bulletin de la Société de Pathologie Exotique et de Ses Filiales</i> . 1980;73(2):200-206.	Pubmed
30	Segbena AY, Kueviakoe I, Messie AK, Napo-Koura IG, Vovor A, David M. [Hemoglobin anomalies at the university hospital center in Lome, Togo]. <i>Médecine Tropicale</i> . 2002;62(1):51-54.	Pubmed
31	Talafih K, Hunaiti AA, Gharaibeh N, Gharaibeh M, Jaradat S. The prevalence of hemoglobin S and glucose-6-phosphate dehydrogenase deficiency in Jordanian newborn. <i>Journal of Obstetrics and Gynaecology Research</i> . 1996;22(5):417-420.	Pubmed
32	Tchamago CJ. Dépistage néonatal de la drépanocytose au Sénégal. Etude préliminaire au de de deux maternités de Dakar.: Faculté de Médecine, de Pharmacie et d'Odonto-Stomatologie, Université Cheikh Anta Diop; 2006.	Preliminary studies
33	Tshilolo L, Aissi LM, Lukusa D, et al. Neonatal screening for sickle cell anaemia in the Democratic Republic of the Congo: experience from a pioneer project on 31 204 newborns. <i>Journal of Clinical Pathology</i> . 2009;62(1):35-38.	Pubmed
34	Tshilolo L, Kafando E, Sawadogo M, et al. Neonatal screening and clinical care programmes for sickle cell disorders in sub-Saharan Africa: lessons from pilot studies. <i>Public Health</i> . 2008;122(9):933-941.	Pubmed
35	Van Baelen H, Vandepitte J, Cornu G, Eeckels R. Routine detection of sickle-cell anaemia and haemoglobin Bart's in Congolese neonates. <i>Tropical and Geographical Medicine</i> . 1969;21(4):412-426.	Pubmed
36	Williams TN, Uyoga S, Macharia A, et al. Bacteraemia in Kenyan children with sickle-cell anaemia: a retrospective cohort and case-control study. <i>Lancet</i> . 2009;374(9698):1364-1370. Complemented by <i>Personal Communication</i> .	Preliminary studies