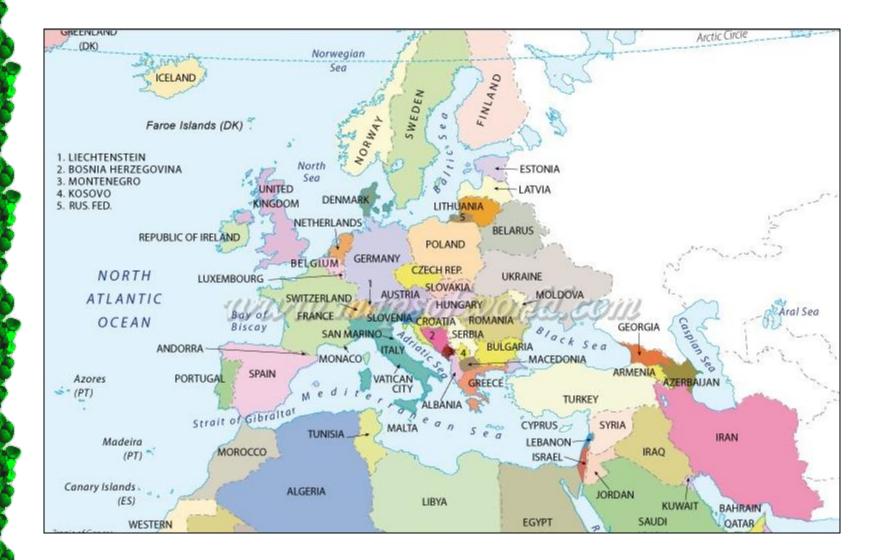
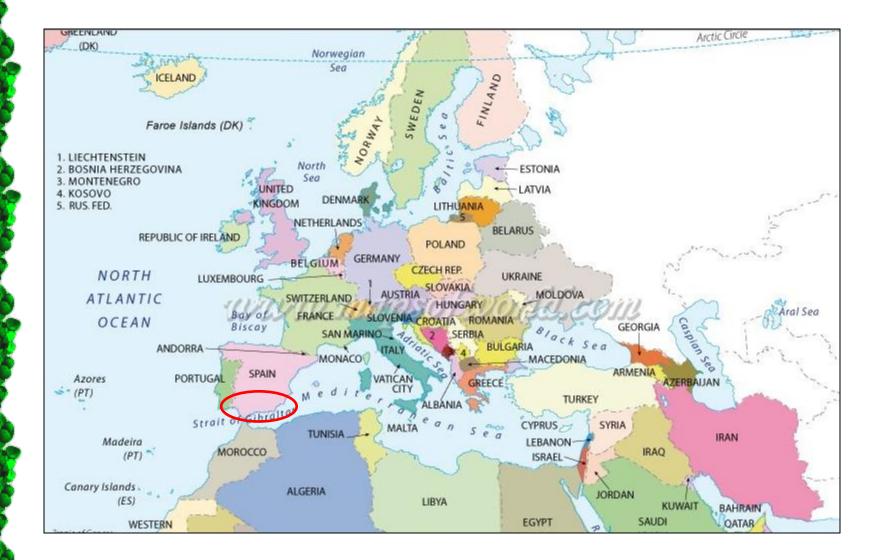
Screening practices for infectious diseases among newly arrived migrants in Spain

Carmen Montaño-Remacha Epidemiologist in Andalusian Health Service

Summary

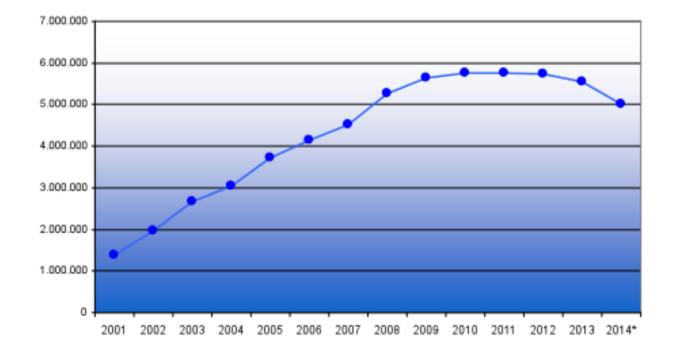
- Patterns of immigration
- Immigration health centres
- Main diseases among immigrant people
- Documents and guidance
- Diseases screened
- Results of screening practices
- Lessons learnt and challenges



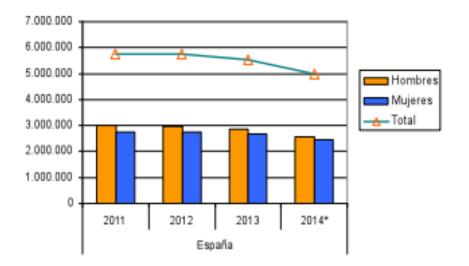




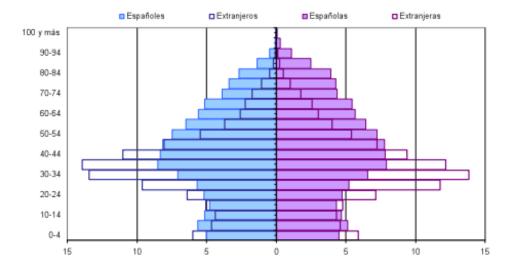
Spain is divided into 17 autonomous regions Decentralization of health care system



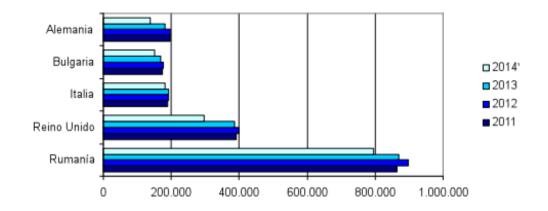
Trend of the foreign population in Spain



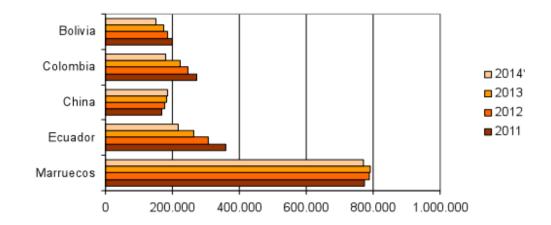
Foreign population by sex



Age structure of national and non-national immigrants in 2014



Immigration by EU country of birth



Immigration by non EU country of birth

Immigration centres

No specific centres for immigrants

- Tropical Medicine Centres
- National Centre for Tropical Medicine
- International Health
- Spanish Society of Tropical Medicine

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IX Congreso SEMTSI. Calpe-Alicante, 2015 Lo que nos une y nos separa

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XIX Congreso de la Sociedad Española de Parasitología (SOCEPA) y del II Encuentro

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CALENDARIO DE EVENTOS Calendario de eventos

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Unitat de Medicina Tropical i Salut Internacional Drassanes



Som la Unitat de Medicina Tropical i Salut Internacional Drassanes (UMTSID) que desde l'any 1983 ofereix atenció especialitzada abans i després de viatjar a països tropicals i subtropicals, atenent també als immigrants nouvinguts d'aquestes zones.



Aquesta Unitat va ser creada el 3 d'octubre de 1983 a l'antic Centre Diagnóstic de les Drassanes pel Dr. Jose Luis Bada Ainsa. En aquell moment, la principal població atesa estava formada per emigrants de Catalunya i de la resta de l'Estat







Diseases among immigrants

- Tuberculosis
- Hepatitis B and C
- STI
- HIV / AIDS
- Leprosy
- Malaria
- Schistosomiasis
- Filariasis
- Leishmaniasis
- Chagas disease
- Dengue

Guía de enfermedades infecciosas importadas

- - 😥

guia de actuación en atención primaria

para población

inmigrante

Protocolo de atención a los inmigrantes e hijos de inmigrantes. ABS Raval Nord. Barcelona Estudio de Inmigración y Salud Pública: Enfermedades Infecciosas Importadas

GRUPO DE CONSENSO DE ATENCIÓN PRIMARIA



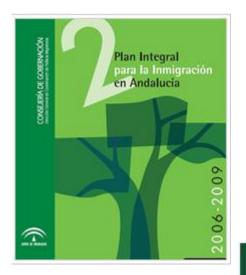
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III Plan Integral para la Inmigración en Andalucía

La nueva planificación refuerza la integración social de la población extranjera





Screening of asymptomatic health people

- 1. Personal background
- 2. Current medical history
- 3. Physical exploration
- 4. Psychological basic exploration
- 5. Additional tests

Screening of asymptomatic health people

1. Personal background

- Birth country and travelled countries
- Length of stay in Spain
- Housing characteristics and cohabitants
- Relevant medical history: tuberculosis, STIs, HBV, HIV,...
- Stressors that impede adaptation
- Allergies
- Activity and employment status
- Educational level

In women:

- Gynaecological, obstetric and possible STIs medical history
- Contraceptive method used
- Abortions
- Controls of previous pregnancies
- Gender violence

In children:

- Mother's pregnancy monitored or not
- Vaccination status

Screening of asymptomatic health people

5. Additional tests

- CBC
- Blood biochemistry
- Urinalysis
- Parasite in faeces
- Tuberculin skin test and chest X-ray
- Serology
 - o Hepatitis B
 - Hepatitis C
 - o Syphilis
 - HIV/AIDS
 - o Toxoplasmosis
 - o Rubella
- Blood smear for malaria

Clinical Impact of HTLV-1 Infection in Spain: Implications for Public Health and Mandatory Screening.

Toro, Carlos; Rodés, Berta; Aguilera, Antonio; Caballero, Estrella; Benito, Rafael; Tuset, Concepción; Garcia, Juan; de Lejarazu, Raúl Ortiz; Eirós, José M.; Calderón, Enrique; Rodriguez, Carmen; Soriano, Vincent; on behalf of the HTLV Spanish Study Group

Seroprevalence of chronic viral hepatitis markers in 791 recent immigrants in Catalonia, Spain. Screening and vaccination against hepatitis B recommendations

Introduction. The prevalence of chronic viral hepatitis in the European Union (EU) will vary because of the immigrants coming from countries having an elevated with a higher endemicity of hepatitis B (HBV) and C virus (HCV). Serologic screening in healthy immigrants is a subject that has been discussed in the areas of feasibility, ethics and cost-effectiveness. The main study aims were: a) to know the prevalence of chronic hepatitis markers and, b) to determine the best cost-effectiveness strategy of vaccination against hepatitis B. Population and Method. An observational, perspective and multicenter study was performed on the Primary Care level in Catalonia (Spain) among healthy immigrants who had lived in the EU for less than 5 years.

Results. Data from 791 individuals were analyzed. They presented anti-HBc+ 33% (95% CI 29.6 -36.1), and anti-HBs+ 16.1% (95% CI 11.4 -20.8). HBsAg+ was 5.9% (95% CI 3-8.7), of those were HBeAg+ 15.62% (95% CI 5.3-32.8). The sub-Saharan group presented the higher prevalence of anti-HBc+ (77.3%) and HBsAg+ (18.2%), whereas the Latin American-origin population displayed the lowest one (12.5% and 1.2%, respectively). Determination of antibodies prior to vaccination was found as cost-effective from a seroprevalence anti-HBc+> 48.72%; only overcome by the CI of sub-Saharan population (95% CI 5.3-32.8). The prevalence of anti-HC+ was 6.1% (95% CI 4.3-7.8), especially high among the Eastern European (19.6%) and Indostanic

Infectious diseases in sub-Saharan African immigrant children in Madrid, Spain

HUERGA, HELENA MD; LÓPEZ-VÉLEZ, ROGELIO MD

- Abstract

Background. Immigration flow from developing countries to European countries is growing continually, but data about imported infectious diseases in immigrant children are few. Methods. Descriptive and retrospective study of 125 sub-Saharan African children <14 years

of ege attending is topical medicine referal unit in Madrid. Spain: between 1989 and 2011. Results: Of the 125 children 79% had 1 or more symptoms. The remaining 21% (26 case) live asymptometaria and view screwend for inflactious disease. Of him 67.7% (16 case) had 1 or more inflactious disease. Significant association (P < 0.05) was found between terminal to the second screwend in the second screwend in the second screwend in the second metal and the second screwend in the second screwend in the second screwend in the 102 SN was much metal in the second screwend in the second screwend in the second screwend in the parameters of the second metal in the second screwend in the second screwend in the parameters and the second metal in the second metal in the second screwend in the parameters and the presence of the second Head the 3 second in (5 St) was caused by 12 SN was encoded in (5 St) children 24 (25%) ware curved hepatite 19 (anticident) screwend in (5 St) children 24 (25%) ware curved hepatite 19 (anticident) screwend in (5 St) children 24 (25%) ware curved hepatite 19 (anticident) screwend in (5 St) children 24 (25%) ware curved hepatite 19 (anticident) screwend in (5 St) children 24 (25%) ware curved hepatite 19 (anticident) screwend in (5 St) children 24 (25%) ware curved hepatite 19 (anticident) screwend in (5 St) children 24 (25%) ware curved hepatite 19 (anticident) screwend in (5 St) children 24 (25%) ware curved hepatite 19 (anticident) screwend in (5 St) warden and the prevalement of 15 St) tartee antiden-prevalement of 15 St) (anticident screwend screwend (5 St) ware curved because (15 St) ware curved because (15 St) tartee antiden-prevalement of 15 St) (anticident screwend (15 St) (15 St) particel protein derivative skin tests performed) HIV-Positive Immigrants in the Canary Islands, Spain: Implications for Public Health in Europe

Africa Holguín¹; Amparo Álvarez¹; María José Pena¹; Fernando Artiles²; Lourdes Molina²; Vincent Soriano² Author Affilations

Molecular and Epidemiological Characteristics of Blood-Borne Virus Infections Among Recent Immigrants in Spain

Carlos Toro,¹ Victoria Jiménez,¹ Carmen Rodríguez,² Jorge del Romero,² Berta Rodés,¹ África Holguín,¹ Patricia Álvarez,³ Marta García-Campello,³ César Gómez-Hernando,⁴ Ana Guelar,⁵ Julie Sheldon,¹ Carmen de Mendoza,¹ Ainhoa Simón,¹ and Vincent Soriano^{1*}

¹Service of Infectious Diseases, Hospital Carlos III, Madrid, Spain ²Centro Sanitario Sandoval, Madrid, Spain ³Service of Microbiology, Complejo Hospitalario, Pontevedra, Spain ⁴Service of Microbiology, Hospital Virgen de la Salud, Toledo, Spain ⁵Service of Internal Medicine, Hospital del Mar, Barcelona, Spain

The increased immigration from developing regions to Western countries raises public health concerns related to blood-borne viruses. The prevalence of human immunodeficiency virus (HIV), hepatitis B virus (HBV), hepatitis C virus (HCV), and human T-lymphotropic virus (HTLV) infections among recent immigrants attending several Span-

disadvantaged regions. The increased immigration from developing countries raises two public health concerns: the importation of unusual diseases or pathogens which can be transferred to natives, and acquisition of local diseases by the newly arriving immigrant population. Blood-borne virus infections are highly prevalent in most developing countries, where a broad spectrum of

Serological screening of Chagas disease in an immigrant population in Asturias, Spain proceeding from Chagas-endemic areas

Am J Trop Med Hyg. 2015 Apr;92(4):848-56. doi: 10.4269/ajtmh.14-0520. Epub 2015 Feb 2.

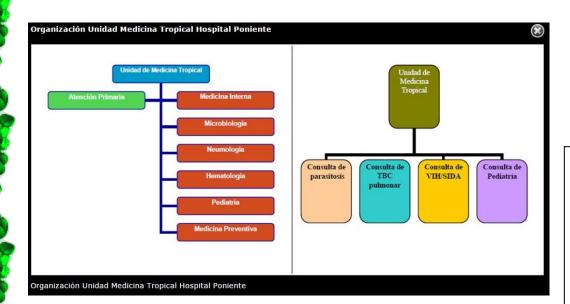
Screening of imported infectious diseases among asymptomatic sub-Saharan African and Latin American immigrants: a public health challenge.

Monge-Maillo B1, López-Vélez R2, Norman FF2, Ferrere-González F2, Martínez-Pérez Á2, Pérez-Molina JA2.

Author information

Abstract

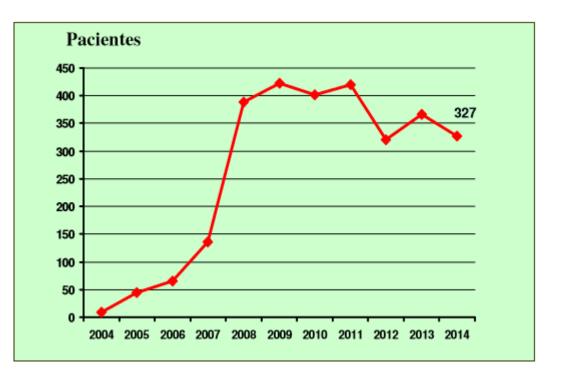
Migrants from developing countries are usually young and healthy but several studies report they may harbor asymptomatic infections for prolonged periods. Prevalence of infections were determined for asymptomatic immigrants from Latin America and sub-Saharan Africa who ettended to a European Tropical Medicine Referral Center from 2000 to 2009. A systematic screening protocol for selected infections was used. Data from 317 sub-Saharan Africans and 383 Latin Americans were analyzed. Patients were mostly young (mean age 29 years); there were significantly more males among sub-Saharan Africans (83% versus 31.6%) and pre-consultation period was longer for Latin Americans (5 versus 42 months). Diagnoses of human immunodeficiency virus (HIV), chronic hepatitis B and C virus infection, and latent tuberculosis were significantly more frequent in sub-Saharan Africans (2.3% versus 0.3%; 14% versus 1.6%; 1.3 versus 0%; 71% versus 32.1%). There were no significant differences in prevalence for syphilis and intestinal parasites. Malaria and schistosomiasis prevalence in sub-Saharan Africans was 4.6% and 5.9%, respectively, and prevalence of Chagas disease in Latin Americans was 48.5%. Identifying and treating asymptomatic imported infectious diseases may have an impact both for the individual concerned and for public health. Based on these results, a systematic screening protocol for asymptomatic immigrants is proposed.











Number of new patients attending the Tropical Medicine Unit (2004-2014) Source: Annual report, Tropical Medicine Unit. Poniente (Almería), 2014

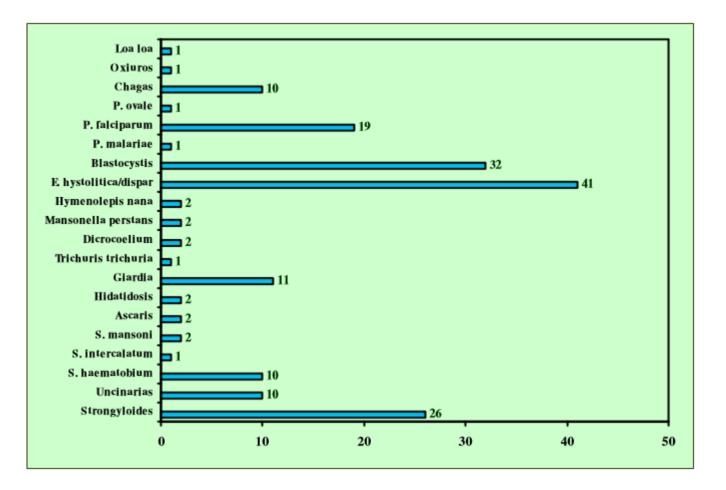
Continente (N ^e total de pacientes)	Latinoamérica (216)	Magreb (300)	E. Este (50)	A. Subsahariana (2.172)	Total (2.738)
VHB	1	31	11	639	682
VHC	1	0	7	61	69
TBC	3	34	2	65	104
Uncinarias	0	4	0	276	280
Strongyloides	37	21	0	351	409
Filarias	0	0	0	119	119
Chagas	82	0	0	0	82
Schistosomas	0	1	0	297	298
Giardia	7	19	92	2	120
VIH**	0	0	1	19	20
Paludismo	0	0	0	131	131

Main diagnoses in immigrant patients by area of origin (2004 - 2014)

Source: Annual report, Tropical Medicine Unit. Poniente (Almería), 2014

	Frecuencia	Porcentaje
Marruecos	40	12,2
Mali	71	21,7
Ghana	13	4,0
Guinea Bissau	30	9,2
Mauritania	12	3,7
Senegal	59	18,0
Guinea Ecuatorial	6	1,8
Nigeria	9	2,8
Ecuador	3	,9
Burkina Fasso	5	1,5
Bolivia	14	4,3
Gambia	10	3,1
España	37	11,3
Guinea-Conakry	3	,9
Rumanía	3	,9
Rusia	2	,6
Colombia	1	,3
Costa de Marfil	1	,3
Argelia	1	,3
Brasil	1	,3
Inglaterra	1	,3
Camerún	2	,6
República Dominicana	1	,3
Pakistán	1	,3
República Democrática del Congo	1	,3
Total	327	100,0

Countries of origin of the patients seen during 2014 Source: Annual report, Tropical Medicine Unit. Poniente (Almería), 2014



Most relevant parasitological infections diagnosed in 2014

Source: Annual report, Tropical Medicine Unit. Poniente (Almería), 2014

	Frecuencia
Hepatitis B	72
Hepatitis C	8
VIH	3
Tuberculosis	8
Chikungunya	1
Sífilis	20

Other infectious diseases diagnosed and/or treated in 2014

		Frecuencia	Porcentaje válido
	<5 mm	34	36,5
	5-10 mm	14	15,0
	11-15	16	17,2
	>15 mm	29	31,2
	No realizado	234	
Total		327	100,0

Mantoux test results, 2014

Source: Annual report, Tropical Medicine Unit. Poniente (Almería), 2014

Lessons learnt and challenges

Same health system (no parallel system for immigrants) Multidisciplinary teams

Training programs for HCW Community participation Systematic screening protocol for asymptomatic immigrants

Thank you very much Muchas gracias