

Jacobi

TAKING CARE OF MIGRANTS: THE APPROACH TO EOSINOPHILIA

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CONCLUSION

Individuals who had an

likely

can

positive serology.

were

corticosteroids.

bathroom

to

was

have

These

receive

develop a

infection if

migrant

Strongyloidiasis

patients.

outdoor

patients

disseminated

more

they

common in our

BACKGROUND

Eosinophilia in migrant is patients common finding.

While screening guidelines refugee populations there exist, are guidelines for the approach eosinophilia immigrants.

Etiologic diagnosis migrant patients requires attention the epidemiological risk factors.

Serodiagnosis is important diagnosis of the chronic parasitic diseases and offers an opportunity of screening other latent diseases.

OBJECTIVE

Describe the association eosinophilia and between parasitic infections patients in migrant outpatient setting.

METHODS

Retrospective review of serology, demographics. and diagnosis of migrant patients with eosinophilia (≥ 500 cells/mm3) who were referred to the Tropical Medicine and Parasitology Clinic at Jacobi Medical Center in Bronx, New York.

RESULTS

104 with Of cases eosinophilia were seen. Most were female individuals and born in the Caribbean, followed by Asia and Central America.

The mean age of patients was 50.7 years and the median time from migration was 18 years.

The mean of the peak of eosinophils in the past 3 months was 1300 ± 600 cells/mm3.

Serology for Strongyloides was positive in 24 patients (23.1%). proportion The seroprevalence Strongyloides by country was higher in Central America (7 43.8%), patients; Africa 37.5%), patients; and Caribbean (8 patients; 27.6%). **Patients** who had outdoor bathrooms were more likely to seropositive be Strongyloides (p=0.04).

country of origin

Europe

Africa

Central...

Asia

Mexico

Caribbean

South...

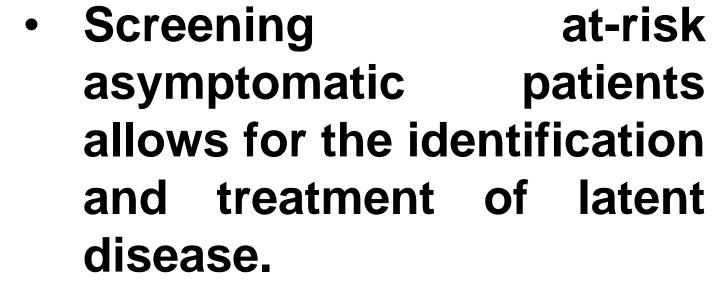
serology was positive in 6/10 patients Schistosoma and serology was positive in 3/8 patients. Of note, both results were only tested in patients with epidemiological risk factors.

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Positive



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- It also offers a screening opportunity for other latent infections such as Chagas disease and Hepatitis B.
- Further studies are needed to help inform guidelines screening immigrant populations.

Graph 1. Distribution of patients by country of origin

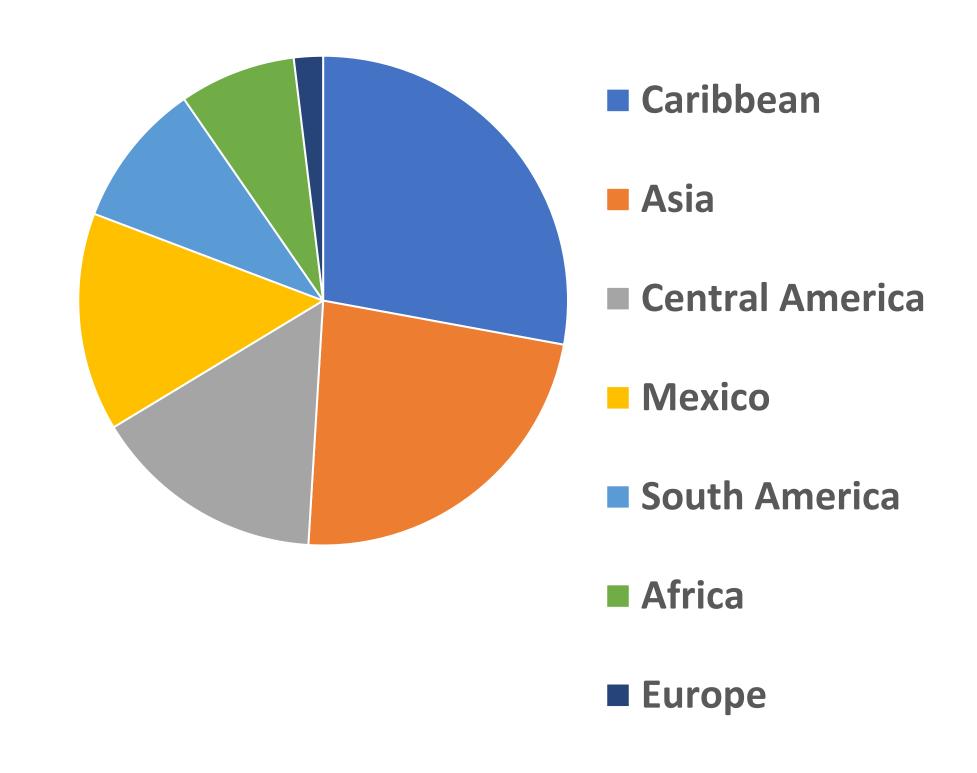


Table 1. Characteristics of the patients with eosinophilia

Cosmoprima		
Characteristics	n = 104	%
Sex (female)	57	54.8
Language		
English	25	24.0
Spanish	54	51.9
Bengali	17	16.3
Other	4	3.8
Time from migration (years)	18 [6-28]	
Time from last visit to home country (years)	2 [5-18]	
Peak abs. eosinophil count (last 3 months)	1.3 ± 0.6	

Table 2. Eosinophilia and other immigrant cerooning

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Negative

screening		
Eosinophilia screening	n = 104	%
Strongyloides	24	23.1
Schistosoma	3	2.9
Toxocara	15	14.4
Other immigrant screening		
Quantiferon	14	13.5
Hep B Ab	25	24.0
Hep B Ag	2	1.9
Chagas	6	5.8
Syphilis	2	1.9

Table 3. Strongyloides serology by bathroom conditions

	Conditions					
	Strong	gyloides				
Bathroom	Neg	Pos	Total	p-value		
Inside house	39	7	46	0.039		
Outside house	34	17	51			
Total	73	24	97			

