

Figure S1. Map of the region showing the three cities where the community-based screening campaigns were performed. In 2016 and 2017 the program was held in Alicante city (setting A) and in 2018, the campaign was scaled up into two primary healthcare centers in Callosa d'en Sarrià, a city located about 40 km north of Alicante city (setting B) and Álvarez de la Riva in Orihuela, which is 60 km to the south (setting C)

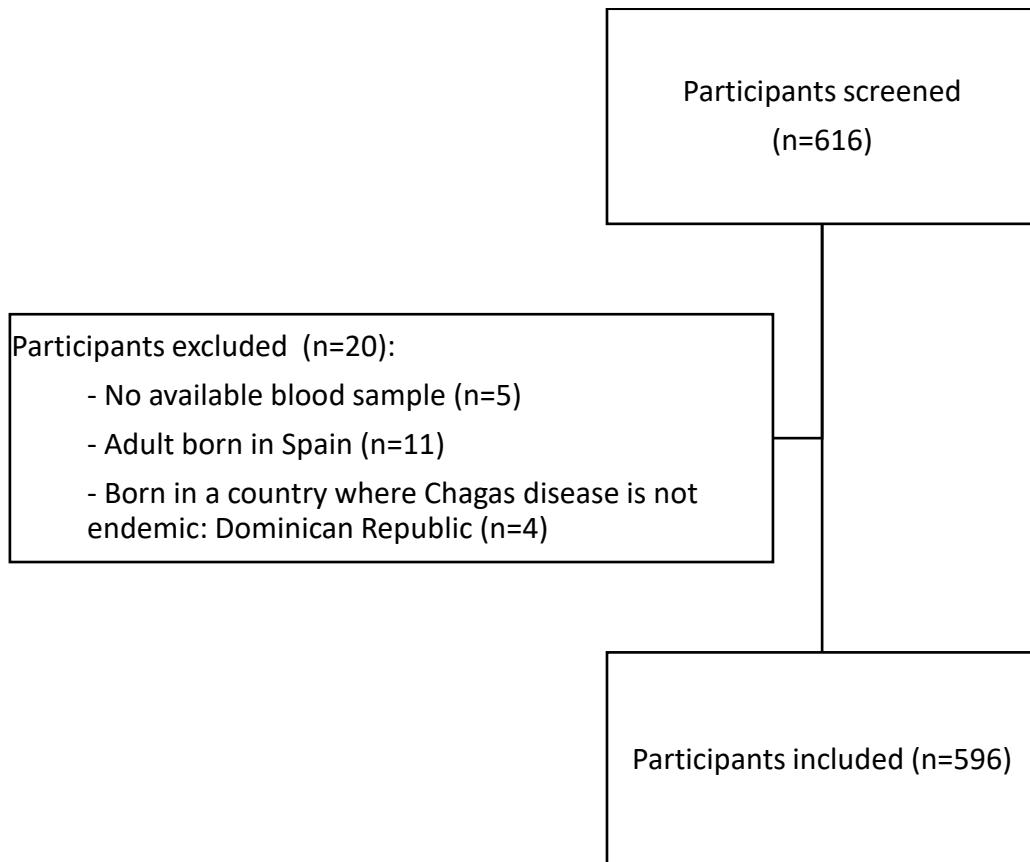


Figure S2. Participant flow chart

File S1: questionnaire given to participants with sociodemographic data, epidemiological risk factors for *T.cruzi* infection, knowledge and beliefs on CD (Spanish version).

Cuestionario sobre las características epidemiológicas y el grado de conocimiento sobre enfermedades parasitarias entregado a la población inmigrante:

Nombre y Apellidos: _____

Fecha de nacimiento: ___/___/___ Teléfono: _____

Sexo: Varón • Mujer • Tarjeta sanitaria: Sí • No •

País de origen: _____ Zona: _____

Fecha de llegada a España (día/mes/año): ___/___/___

Nivel de estudios: Nunca fui a escuela • Primaria • Secundaria • Universidad •

¿Actualmente tienes trabajo? Sí No ¿Cuál?: _____

¿Tienes hijos? Sí • No • ¿Cuántos?: _____

¿Has vivido o pasado temporadas en zona de campo en tu país? Sí No •

¿Recuerdas haber visto *vinchucas* o “chinches besucones” allí? Sí No • No sé

¿Has recibido transfusiones de sangre? Sí No • No sé •

¿Algún familiar afectado por la enfermedad de Chagas? Sí No • No sé •

- ¿Cuáles?: _____

¿Te has hecho alguna vez la prueba del Chagas?: Sí No • No sé •

- ¿Resultado?: Tengo la enfermedad de Chagas • No tengo la enfermedad •

¿Cómo supiste de esta actividad?

• Me dieron un cartel en mano. Lugar: _____

• Vi un cartel colgado. Lugar: _____

Cancha Locutorio Restaurante Tienda Peluquería

Centro de salud Parada de bus/Tram Otros: _____

• Periódico. ¿Cuál?: _____

• Radio. ¿Cuál?: _____

• Redes sociales (Facebook, Twitter, web...)

• Otros: _____

1. **¿Has oído hablar de la estrongilidiasis o del estrongiloides?** Sí • No •

¿Dónde? _____

2. **¿Has oído hablar de la enfermedad de Chagas?** Sí • No •

¿Dónde? _____

3 ¿Has recibido información sobre esta enfermedad en España? Sí • No •

¿Dónde? _____

4. ¿Sabes cómo se transmite la enfermedad de Chagas?

- Picadura de un insecto Sí No • No sé •

¿Qué insecto?: _____

- Por transfusión de sangre Sí No • No sé •

- De una mujer embarazada a su bebé Sí No • No sé •

- Por trasplante de un órgano Sí No • No sé •

- Por relaciones sexuales Sí No • No sé •

- Al besar a una persona Sí No • No sé •

- Por convivir con una persona con Chagas ... Sí No • No sé •

- Otras: _____

5. ¿Sabes qué daños puede producir en el cuerpo la enfermedad de Chagas?

- Afecta al corazón Sí No • No sé •

- Afecta al estómago e intestinos Sí No • No sé •

- Puedes tener la enfermedad y no tener ningún síntoma Sí No • No sé •

- Otros: _____

6. ¿Crees que es una enfermedad grave? Sí No • No sé •

7. ¿Se puede diagnosticar? Sí No • No sé •

- Cómo? _____

8. ¿Tiene tratamiento? Sí No • No sé •

- ¿Sabes qué tipo de tratamiento y cómo se llama? _____

- ¿Crees que se cura?: Sí No • No sé •

9. ¿Qué significa para ti la enfermedad de Chagas?

File 2S. STROBE Statement—Checklist of items that should be included in reports of cross-sectional studies

	Item No	Recommendation	Pag No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	1
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	3
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	5
Objectives	3	State specific objectives, including any prespecified hypotheses	6
Methods			
Study design	4	Present key elements of study design early in the paper	6
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	6
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of participants	7
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	7-8
Data sources/measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	8
Bias	9	Describe any efforts to address potential sources of bias	8
Study size	10	Explain how the study size was arrived at	8
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	9
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	9
		(b) Describe any methods used to examine subgroups and interactions	
		(c) Explain how missing data were addressed	
		(d) If applicable, describe analytical methods taking account of sampling strategy	
		(e) Describe any sensitivity analyses	
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	10
		(b) Give reasons for non-participation at each stage	11
		(c) Consider use of a flow diagram	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	11-12
		(b) Indicate number of participants with missing data for each variable of interest	

Outcome data	15*	Report numbers of outcome events or summary measures	13
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	13
		(b) Report category boundaries when continuous variables were categorized	14
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	17
Discussion			
Key results	18	Summarise key results with reference to study objectives	18
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	21
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	21
Generalisability	21	Discuss the generalisability (external validity) of the study results	21
Other information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	22

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at <http://www.plosmedicine.org/>, Annals of Internal Medicine at <http://www.annals.org/>, and Epidemiology at <http://www.epidem.com/>). Information on the STROBE Initiative is available at www.strobe-statement.org.

Table S1. Knowledge about Chagas diseases (CD) by sex and educational level

Questions about CD	Total n/N (%)	Sex		Educational level		
		Female n/N (%)	Male n/N (%)	Primary school n/N (%)	High school n/N (%)	University studies n/N (%)
Transmission (right answer)						
Can CD be transmitted by an insect bite?	310/482 (64.3)	196/294 (66.7)	114/188 (60.8)	67/126 (21.7)	179/263 (57.9)	63/83 (20.4)***
Can CD be transmitted by kissing bugs?	147/476 (30.9)	98/293 (33.4)	49/183 (26.8)	29/126 (19.7)	82/259 (55.8)	36/81 (24.5)**
Can CD be transmitted through blood transfusions?	135/448(30.1)	85/271 (31.4)	50/177 (28.2)	27/124 (19.6)	84/248 (60.9)	27/70 (19.6)*
Can CD be transmitted from mother to child?	179/450 (39.8)	112/276 (40.6)	67/107 (38.5)	36/126 (20.1)	105/246 (58.7)	38/74 (21.2)**
Can CD be transmitted through organ transplantation?	95/441 (21.5)	63/270 (23.3)	32/171 (18.7)	23/123 (23.5)	58/243 (59.2)	17/69 (17.3)
Can CD be transmitted through sexual contact?	126/446 (28.3)	74/269 (27.5)	52/177 (29.4)	23/125 (18)	75/246 (58.6)	30/69 (23.4)***
Can CD be transmitted through kissing?	159/445 (35.7)	97/268 (36.2)	62/177 (35)	29/124 (18)	97/246 (60.2)	35/69 (21.7)***
Can CD be transmitted by living with a person who has the disease?	143/446 (32.1)	90/269 (33.5)	53 /177 (29.9)	29/124 (20.1)	82/246 (56.9)	33/69 (22.9)**
Clinical characteristics (right answer)						
Can CD affect the heart?	238/488 (48.8)	155/295 (52.5)	83/193 (43.0)*	45/129 (19.1)	135/266 (57.4)	55/84 (23.4)***
Can CD affect the stomach and bowels?	129/471 (27.4)	84 / 285 (29.5)	45/186 (24.2)	23/127 (18)	75/255 (58.6)	30/81 (23.4)**
Can someone with CD feel okay (asymptomatic)?	131/473 (27.7)	83/289 (28.7)	48/184 (46.1)	22/127 (16.7)	80/257 (60.6)	30/80 (22.7)**
Is CD a serious disease?	289 /482 (60)	185/292 (63.4)	104/190 (54.7)	60/126 (21.1)	163/265 (57.4)	61/82 (21.5) **
Diagnosis and treatment (answer yes)						
Is there diagnosis for CD?	172/399 (43.1)	111/245 (45.3)	61/154 (39.4)	61/128 (20.3)	176/267 (58.7)	63/80 (21)***
Is there treatment for CD?	252/470/ (53.6)	161/285 (56.5)	91/185 (49.2)	55/125 (22.1)	148/259 (59.4)	46/77 (18.5)*
Does CD have a cure? say yes	158/458 (34.5)	100/279 (35.8)	58/179 (32.4)	35/121 (22.3)	93/251 (59.2)	29/77 (18.5)

In bold, statistically significant differences: * P-value <0.05; ** P-value <0.01; *** P-value <0.001

Table S2. Level of knowledge according to sociodemographic factors

Variables	Low knowledge of Chagas disease	Good knowledge of Chagas disease	P value
Demographic data			
Sex, male, n (%)	111/193 (57.5)	82/193 (42.5)	0.060
Age in years, median (IQR)	43 (35-50)	41 (34-48)	0.097
Years in Spain, median (IQR)	15 (12-17)	12 (9-15)	<0.001
Education, n/N (%)			
Primary school	85/128 (66.4)	43/128 (33.6)	<0.001
Secondary school	126/261 (48.3)	135/261 (51.7)	0.84
University studies	32/80 (40)	48/80 (60.0)	0.020
Country of birth, n/N (%)			
Bolivia	74/198 (37.4)	124/198 (62.6)	<0.001
Ecuador	135/185 (73.0)	50/185 (27.0)	<0.001
Colombia	35/64 (54.7)	29/64 (45.3)	0.67
Argentina	1/12 (8.3)	11/12 (91.7)	0.02
Brazil	4/7 (57.1)	3/7 (42.9)	0.79
Paraguay	1/6 (16.7)	5/6 (83.3)	0.079
Epidemiological data, n/N (%)			
Living in rural area	75/149 (50.3)	74/149 (49.7)	0.52
Triatomines seen at home	48/107 (44.9)	59/107 (55.1)	0.012
Blood transfusion recipient	19/28 (67.9)	9/28 (32.1)	0.096
Relatives with Chagas disease	9/38 (23.7)	29/38 (76.3)	<0.001
Received info. about Chagas disease in Spain	21/87 (24.1)	66/87 (75.9)	<0.001
Heard about Chagas disease	31/111 (27.2)	80/111 (72.1)	<0.001