Schest Online Supplement

Gun Violence, African Ancestry, and Asthma

A Case-Control Study in Puerto Rican Children

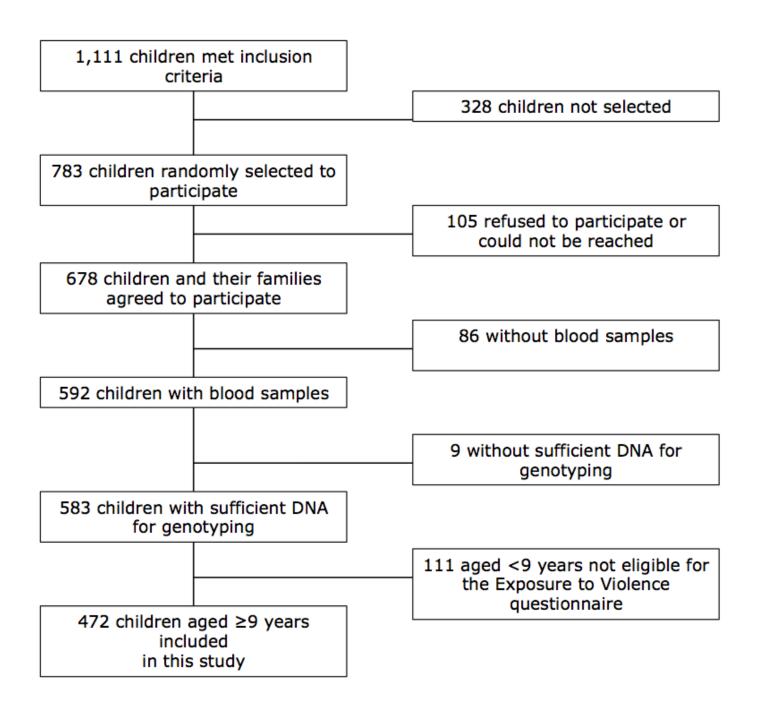
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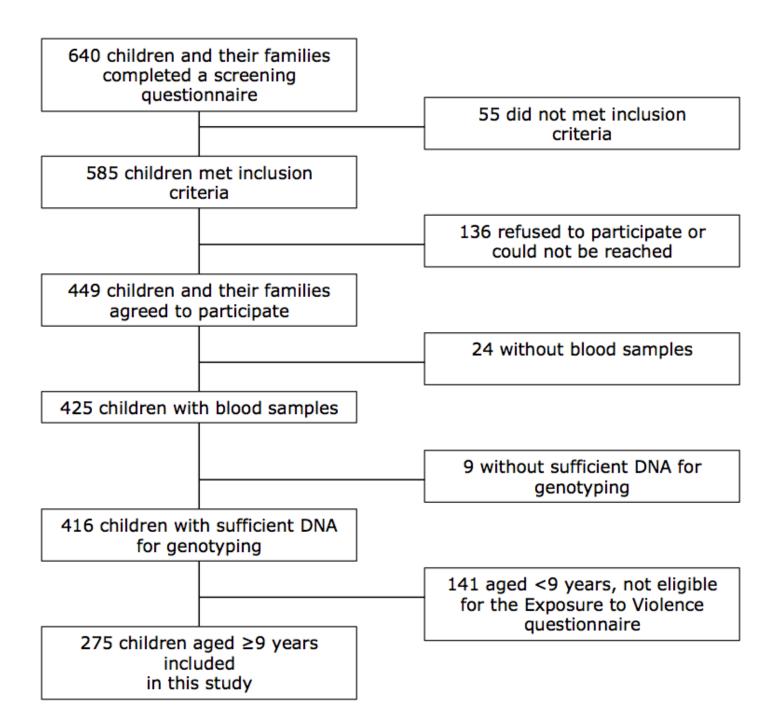
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Section Supplement



e-Figure 1. Flow diagram for subject recruitment in San Juan, Puerto Rico.





e-Figure 2. Flow diagram for subject recruitment in Hartford, Connecticut.

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e-Table 1. Analysis of African ancestry and asthma in participating Puerto Rican children, according to study site and exposure to gun violence^{a,b,c}

	San Juan (n=466) Exposure to gun violence		Hartford (n=185) Exposure to gun violence	
	No (n=188)	Yes (n=278)	No (n=114)	Yes (n=71)
Unadjusted				
Each quartile increase in the	0.77 (0.58 to 1.03),	1.24 (0.99 to 1.56),	0.90 (0.62 to 1.31),	1.73 (1.04 to 2.90),
percentage of African ancestry	0.08	0.06	0.6	0.04
<u>Adjusted</u> ^d				
Each quartile increase in the	0.74 (0.53 to 1.03),	1.37 (1.06 to 1.77),	0.90 (0.60 to 1.34),	2.08 (1.10 to 3.91),
percentage of African ancestry	0.08	0.01	0.6	0.02

Definition of abbreviations: ETS = Environmental tobacco smoke.

^aAsthma defined as physician-diagnosed asthma and wheeze in the previous year.

^bHeard a gunshot more than once during her/his lifetime.

^cData presented as odds ratio (95% confidence interval), *P* value.

^dMultivariate models were additionally adjusted for age, gender, exposure to environmental tobacco smoke in utero or prior to 2 years of age, household income, and maternal asthma in addition to the covariates listed in the first column.

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e-Table 2. Analysis of African ancestry and serum total IgE in participating Puerto Rican children, according to study site and exposure to gun violence^{a,b,c}

	San Juan (n=466) Exposure to gun violence		Hartford (n=185) Exposure to gun violence	
	No (n=188)	Yes (n=278)	No (n=114)	Yes (n=71)
<u>Unadjusted</u>				
Each quartile increase in the percentage of African ancestry Adjusted ^c	-4.55 (-22.80 to 18.01), 0.7	24.69 (3.91 to 49.64), 0.02	-11.47 (-32.57 to 16.24), 0.4	28.85 (-10.24 to 84.94), 0.2
Each quartile increase in the percentage of African ancestry	-8.49 (-27.30 to 15.20), 0.4	18.74 (-1.51 to 43.15), 0.07	-10.09 (-31.93 to 18.77), 0.5	20.13 (-20.04 to 80.45), 0.4

Definition of abbreviations: ETS = Environmental tobacco smoke.

^aSerum total IgE levels transformed to a logarithmic (log10) scale for analyses. Results were back-transformed for ease of interpretation and are presented as percent increase or decrease in serum total IgE levels (95% confidence interval), *P* value. ^bHeard a gunshot more than once during her/his lifetime.

^cMultivariate models were additionally adjusted for age, gender, exposure to environmental tobacco smoke in utero or prior to 2 years of age, household income, maternal asthma, and case-control status.