# Schest Online Supplement

# Gun Violence, African Ancestry, and Asthma

#### A Case-Control Study in Puerto Rican Children

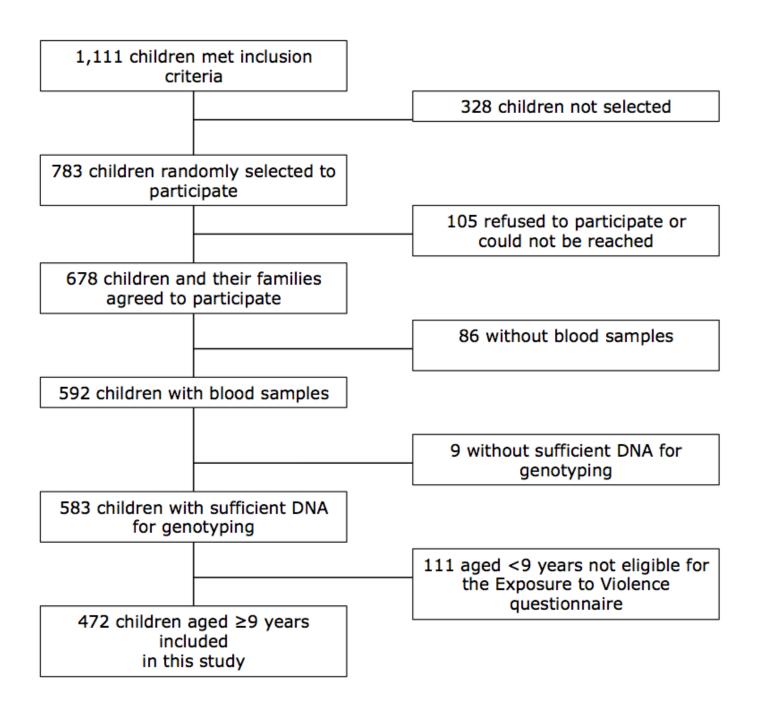
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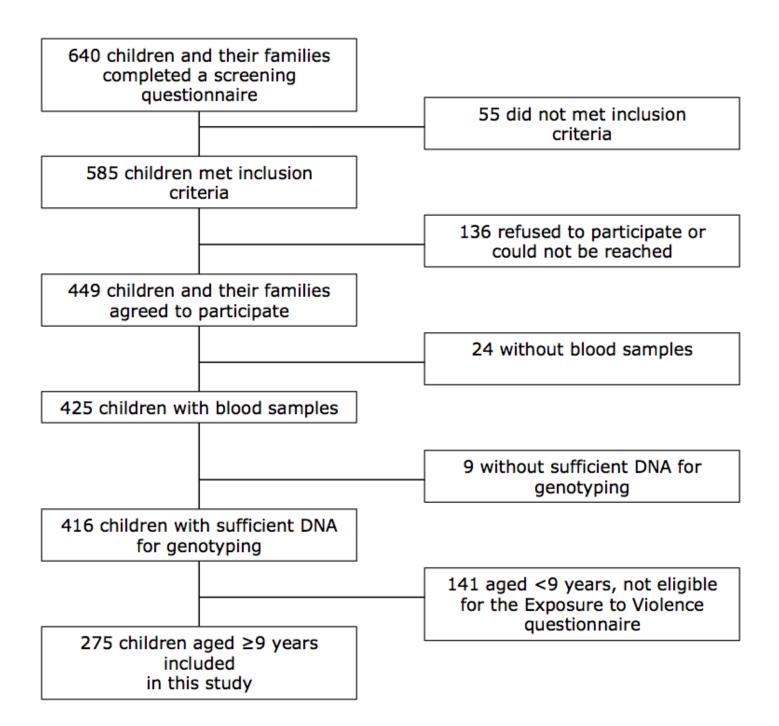
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### **Section Supplement**



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<sup>a,b,c</sup>

	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> <sup>d</sup>				
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.

<sup>a</sup>Asthma defined as physician-diagnosed asthma and wheeze in the previous year.

<sup>b</sup>Heard a gunshot more than once during her/his lifetime.

<sup>c</sup>Data presented as odds ratio (95% confidence interval), *P* value.

<sup>d</sup>Multivariate 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<sup>a,b,c</sup>

	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 <sup>c</sup>	-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.

<sup>a</sup>Serum 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. <sup>b</sup>Heard a gunshot more than once during her/his lifetime.

<sup>c</sup>Multivariate 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.