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| Topics: |
| Type: **Oral** |
| **The Male Fraction of All Argentine Infant Mortality is predicted by an X-Linkage Model** |
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| **Introduction** To test an X-linkage model for all infant mortality developed from U.S. infant mortality data for Sudden Infant Death Syndrome (SIDS) and other respiratory case mortality, to see if it holds for Argentina which has different ethnicity, child care traditions and medical practices  **Material and Methods** : A proposed X-linked gene with a recessive allele for susceptibility to acute anoxic encephalopathy with frequency *q* = 2/3 predicts a 50% male infant excess respiratory mortality for equal numbers of live born XY males and XX females at risk. We assume 0% male infant excess for cardiac deaths on the same basis. If female infants have equal probability of respiratory and cardiac deaths the model predicts an average 25% excess, so that 5 males will die for every 4 females, for a male fraction of *x* = 5/9 = 0.5555. Argentine birth data and mortality data for infants under 1 year, 1980 to 2012, from Instituto Nacional de Estadistica are compared to model prediction  **Results** From 1980 to 2012 in Argentina, there was an unweighted average male fraction of 0.5464 male infants dying. However, correcting for sample size, we estimate for equal numbers at risk that the male infant fraction dying of all causes is 0.5580. which is only 0.4% higher than our prediction of 0.5555 male fraction  **Conclusions** If the anoxia protective X-linked dominant allele (*p* = 1/3) can be found, and if the protein it codes for crosses the blood-brain barrier, prophylaxis against SIDS and other respiratory deaths may be possible |
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