
Martinez EZ, Achcar JA. Trends in epidemiology in the 21st century: time to adopt Bayesian methods. *Cad Saúde Pública* 2014; 30(4): 703-714.

A revista foi informada sobre um erro na equação que descreve o teorema de Bayes (p. 707). A equação correta é:

The journal has been informed of an error in the equation that describes the Bayes' theorem (p. 707). The correct equation is:

La revista fue informada sobre un error en la ecuación que describe el teorema de Bayes (p. 707). La ecuación correcta es:

$$f(\theta|\mathbf{x}) \propto f(\theta) \times f(\mathbf{x}|\theta).$$

A revista foi informada sobre um erro no oitavo parágrafo da seção *A Practical Example: Estimating Disease Prevalence* (p. 707). O parágrafo correto é:

The journal has been informed of an error in the eighth paragraph of the section *A Practical Example: Estimating Disease Prevalence* (p. 707). The correct paragraph is:

La revista fue informada sobre un error en el octavo párrafo de la sección *A Practical Example: Estimating Disease Prevalence* (p. 707). El párrafo correcto es:

Let us suppose a sample of size $n = 100$ individuals from the population of interest, of which 22 individuals have the disease in interest. The maximum likelihood estimate for θ is given by $22/100 = 22\%$. Considering the Bayesian approach, the posterior distribution for θ is proportional to $f(\theta|\mathbf{x}) \propto \theta^{4.96+22-1}(1-\theta)^{23.45+100-22-1} = \theta^{26.96-1}(1-\theta)^{101.45-1}$, since $a = 4.96$, $b = 23.45$, $\sum_{i=1}^n x_i = 22$ and $n = 100$. Thus, $f(\theta|\mathbf{x})$ follows a beta distribution with parameters 26.96 and 101.45.