Try a Different Query?

q = "**presidential campaign** **update**"

$p(q|d4=$ [… news of **presidential campaign** … **presidential** candidate …] $)$ $=\dfrac{2}{|d4|}*\dfrac{1}{|d4|}*\dfrac{0}{|d4|}=0!$

$p(q|d3=$ [… news of **presidential campaign** …] $)$ $=\dfrac{1}{|d3|}*\dfrac{1}{|d3|}*\dfrac{0}{|d3|}=0!$

$p(q|d2=$ [… news about organic food **campaign**…] $)$ $=\dfrac{0}{|d2|}*\dfrac{1}{|d2|}*\dfrac{0}{|d2|}=0$

What assumption has caused this problem? How do we fix it?