Take n voters with competences:

 $p_1 = \frac{1}{2} + \frac{1}{2}, \quad p_2 = \frac{1}{2} + \frac{1}{2^2}, \quad \dots, \quad p_n = \frac{1}{2} + \frac{1}{2^n}.$ 

The probability of a correct majority decision, as 
$$n$$
 grows, is:

 $\lim_{n \to \infty} \Pr \left[ S_n > n/2 \right] = \frac{1}{2}.$ 

$$n\to\infty$$
 [ " ' ] 2  
Even though the competence of each voter is above  $1/2$ , the probability of a correct majority decision does not go asymptotically towards 1.