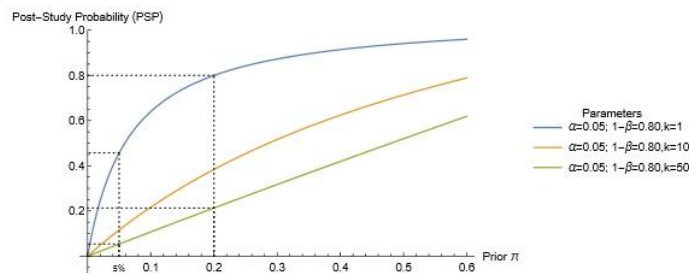


PILOT CHART Q4 2018

Quarterly compendium of biosciences industry perspectives, Q4 January 2019

Are most research findings false ? In a recent presentation, Dr Gay shows that current scientific findings can be seen as positive (with significant p-value testing) due to multiplicity bias. He presented simulation with a Bayesian approach to exemplify this trend which generate false positives that led to an erosion of posterior belief (see figure). He envisions several solutions to tackle this problem. (presentation available : [Improving science findings robustness](#)).

What Can We Learn From Many Studies?



$k = 50$ researchers

Weak signals regarding innovation for mobile apps in healthcare. A recent presentation within the Belvedere network shows that regulation is adapting to new trends concerning apps in healthcare. FDA is adopting technology in the field of treatment compliance and diagnostic. The talk shows that an app led to 7 months of progression free survival improvement in oncology (see figure). This monitoring tool seems to preclude adverse reactions and enables relevant dosing for classical treatment. The presentation shows as well the miniaturization of diagnostic tools. (presentation available : [New trends regarding health apps and AI](#)).

