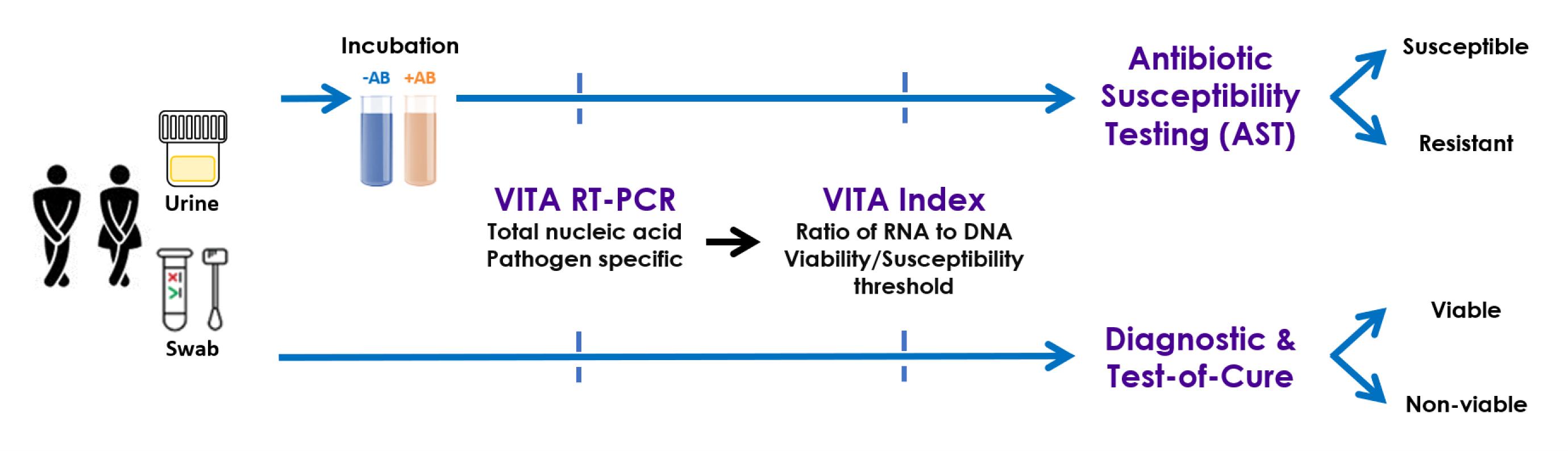
## Determination of Antibiotic Susceptibility and Efficacy by VITA

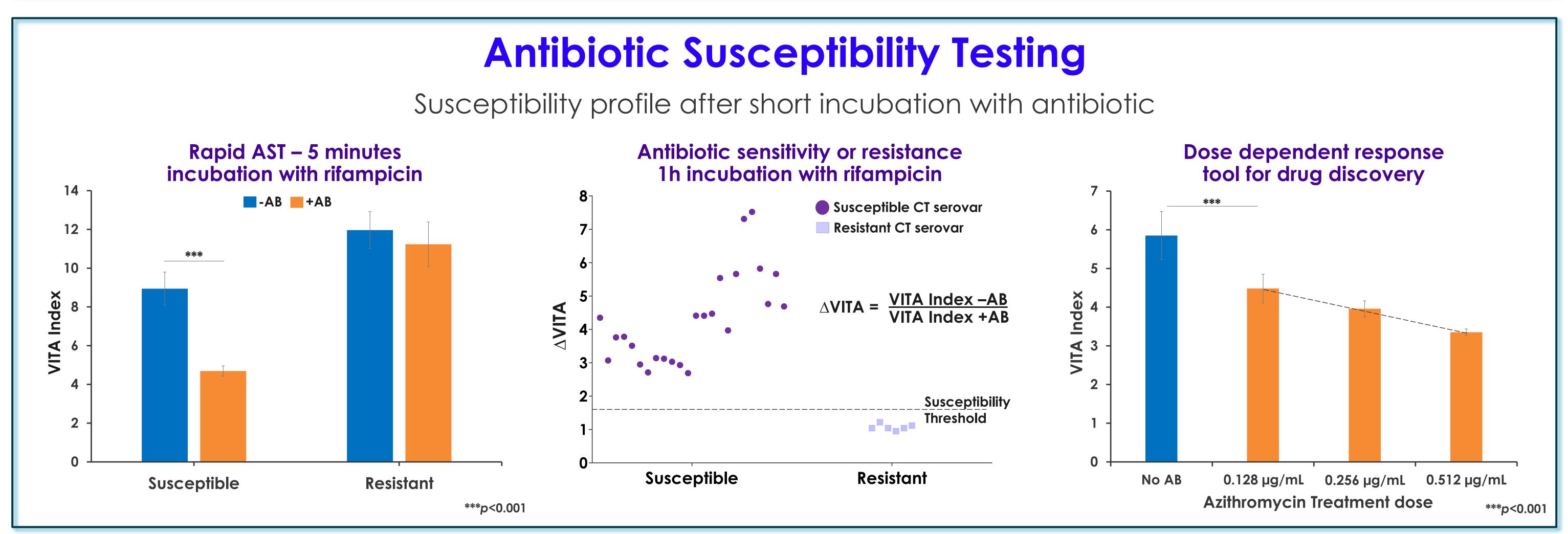
<u>Lima N E<sup>1 2 3</sup></u>, Gibbs C M <sup>1</sup>, Huston W M <sup>3</sup> and Todd A V<sup>1 2</sup>

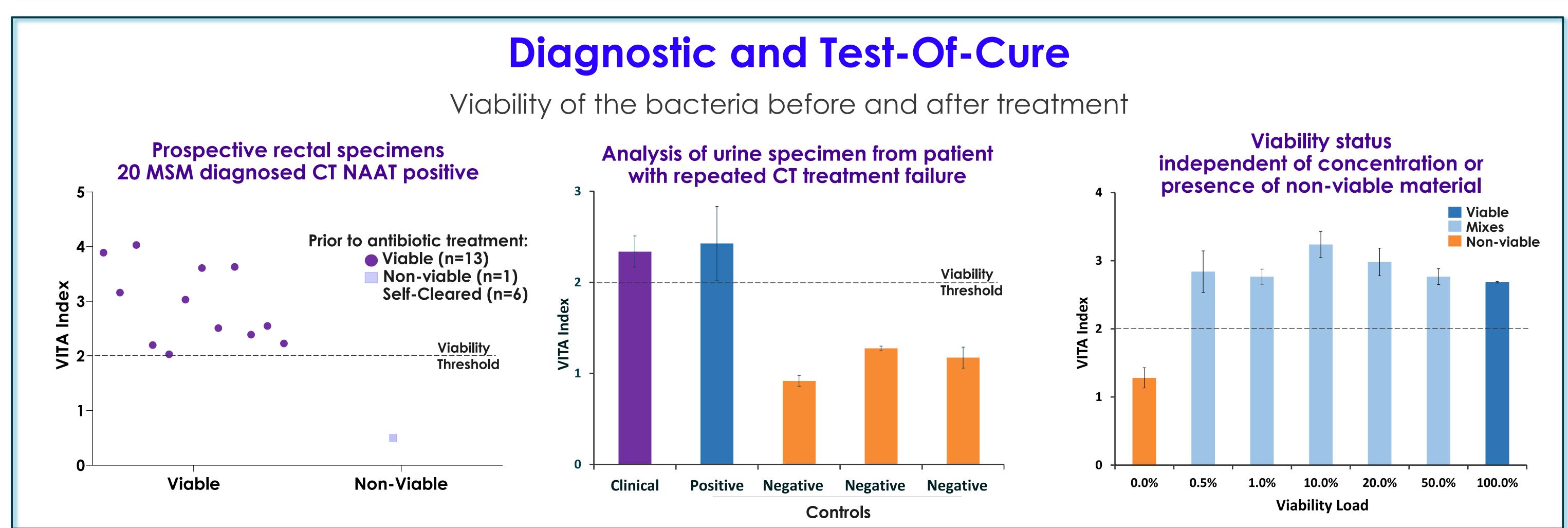
<sup>1</sup>SpeeDx Pty Ltd, Sydney, Australia <sup>2</sup>University of New South Wales, Australia <sup>3</sup>University of Technology Sydney, Australia

## VITA: Viable Transcript Analysis

VITA RT-PCR provides a relative measure of active transcription regardless of the quality/quantity of specimen A resulting VITA Index elucidates the viability of bacteria at any given time and in response to antibiotics(AB)







## Conclusions

- VITA provides an accurate rapid method for diagnosis, guiding antibiotic therapy and determining cure
- AST with VITA requires no prior knowledge of genetic basis for resistance/sensitivity to antibiotics
- VITA is culture independent and can overcome limitations of current NAATs



