

Integrated Innovations are Generating Efficiency & Savings Throughout the Hospital

PIONEERING DIAGNOSTICS



Blood Stream Infection: Historical approach

Sample

Identification

Antibiogram

Results



BacTAlert



Vitek 2

It takes longer than 24 hours to obtain initial results

Blood Stream Infection: Significant Innovation with Mass Spectrometry

Sample

Identification

Antibiogram

Results



BacTAlert



<1 hour



Vitek MS

Dr Marc Romney, St Paul's Hospital, Vancouver:

"It allows us to identify bacteria in a matter of minutes instead of days"

Now technology is delivering results in minutes

St Paul's Hospital, Vancouver B.C. has integrated Mass Spectrometry

- Lab is providing results 24/7
- Infection Control Physician and/or Pharmacist are reviewing the ID (identification) results in order to adjust antibiotic therapy as required
- ICU department is therefore able to immediately adjust the antibiotic therapy as required



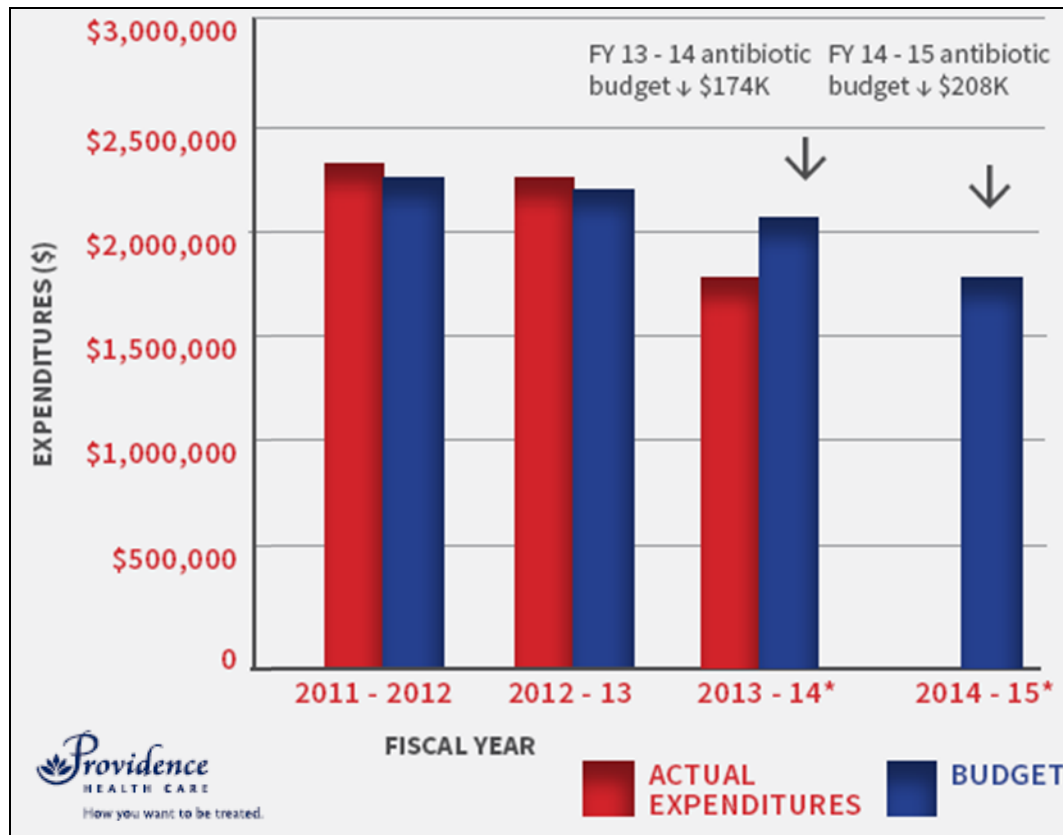
Hospital protocols have to be adapted to realize the significant value of this innovative approach

Value Delivered by Innovation

- Laboratory: less work and quicker turnaround time
- Physicians: increases efficacy AND efficiency by adjusting to the correct antibiotic treatment sooner (improves the Antibiotic Stewardship Program considerably)
- Pharmacy: delivers the most appropriate antibiotic. Perfect fit for the Antibiotic Stewardship Program
- Patient: speeds up recovery by having the right treatment sooner

500,000\$ yearly savings in Antibiotics thanks to the successful implementation and adoption of the innovation

The Power of Integration



Antimicrobial Stewardship Program Annual Report 2013/14

Proposed Future Collaboration with SCN & AHS

- Improving Sepsis Management with Procalcitonin (PCT)
 - Voluminous/Exhaustive body of published clinical studies outside Canada (i.e. globally embraced)
 - 6 months verification with one hospital
 - Early sepsis diagnosis
 - Immediate and appropriate adjustment of antibiotic therapy absolutely drives better survival rates
- Improves management of pediatrics with urgent and severe respiratory symptoms
 - Syndromic approach: capable of testing for 30 bacterial and viral infections within an hour, this detection ensures immediate and correct diagnostic treatment
 - 6 months verification within a pediatric hospital during the flu season would be sufficient to prove efficacy and savings