

Positive financial impact of improving quality of care and reducing hospital acquired infections

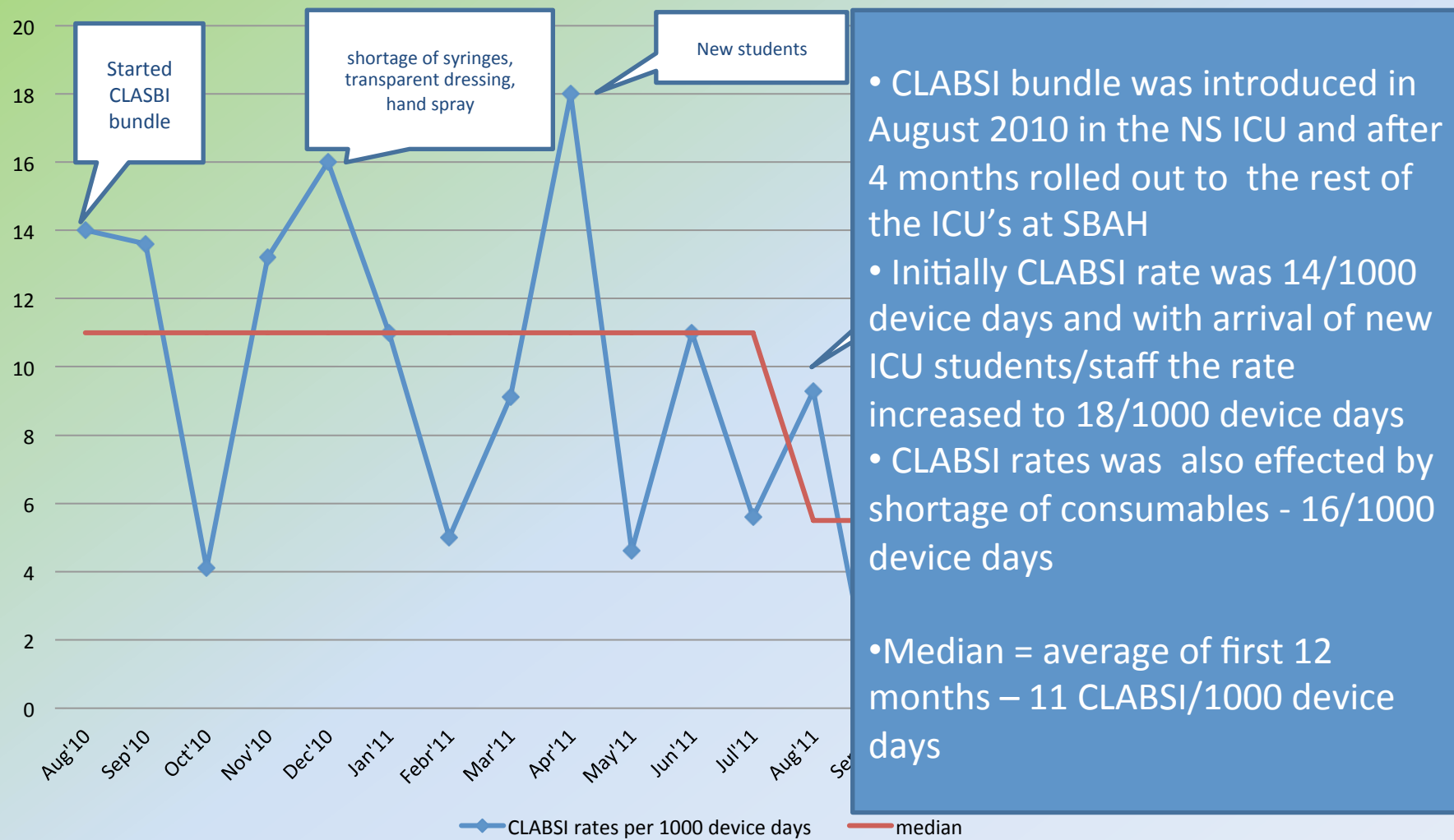
Marlene Wiid – Clinical Facilitator in ICU at Steve Biko Academic Hospital



Background

- Steve Biko Academic Hospital (SBAH) is a 832 bed level 4 central hospital situated in Pretoria
- 7 Adult ICU's with 33 operational beds
- Neuro-surgical (NS) ICU is a 6 bedded ICU
- BCA steering committee was created to drive the project in the hospital

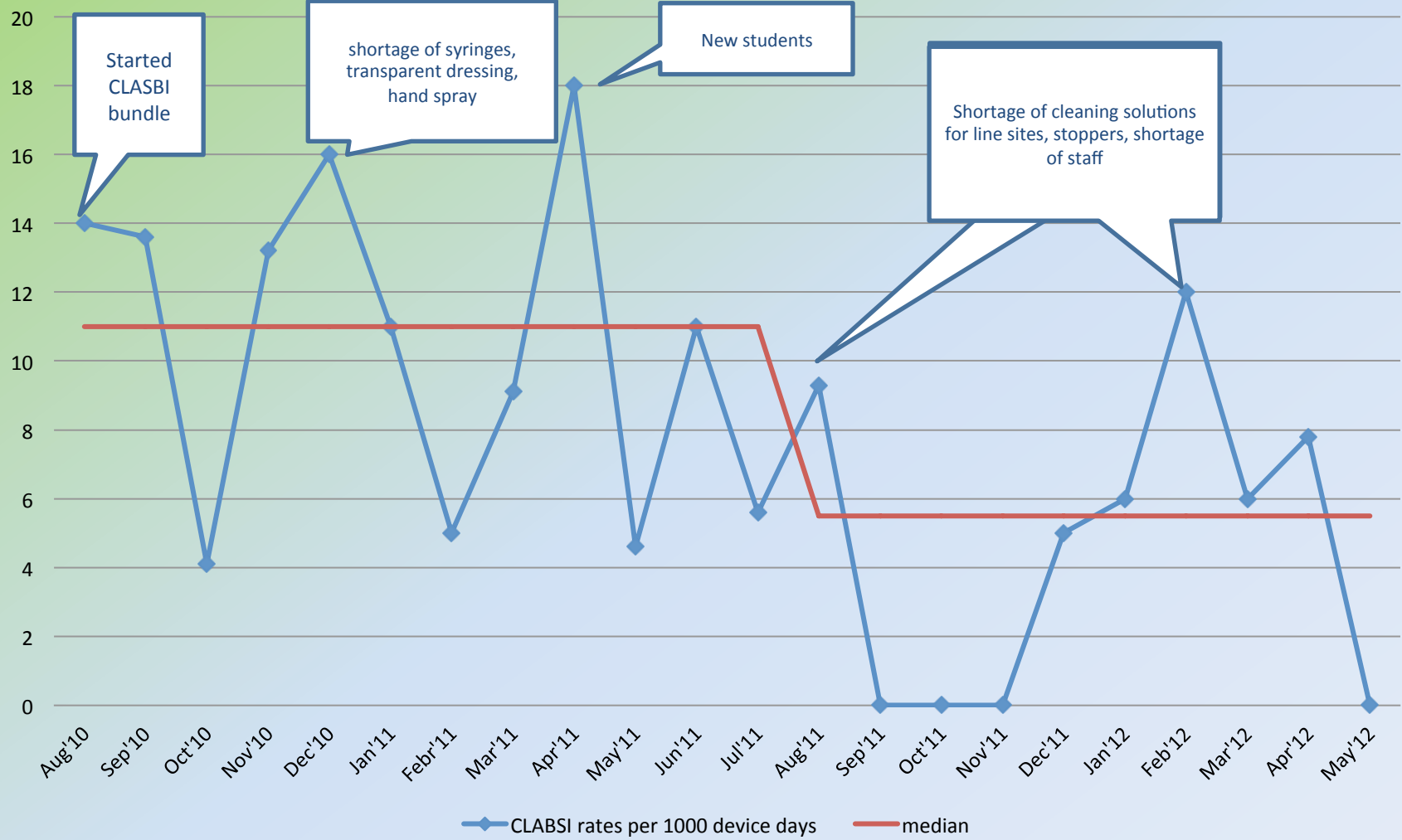
PROBLEM – high CLABSI rate in NS ICU



Interventions

- After the initial orientation of the new students/staff, an Induction program of 5 days was introduced that concentrated on skills development
- CLABSI training on the components of the bundle commenced and
- Compliance measurement of bundle components started
- Placement of reminders on the walls of the ICU to reinforce the bundle and more risk rounds was done to address challenges
- Stock shortages was reported to clinical HOD, the Nursing managers and procurement
- Hand washing Olympiad was done in NS ICU

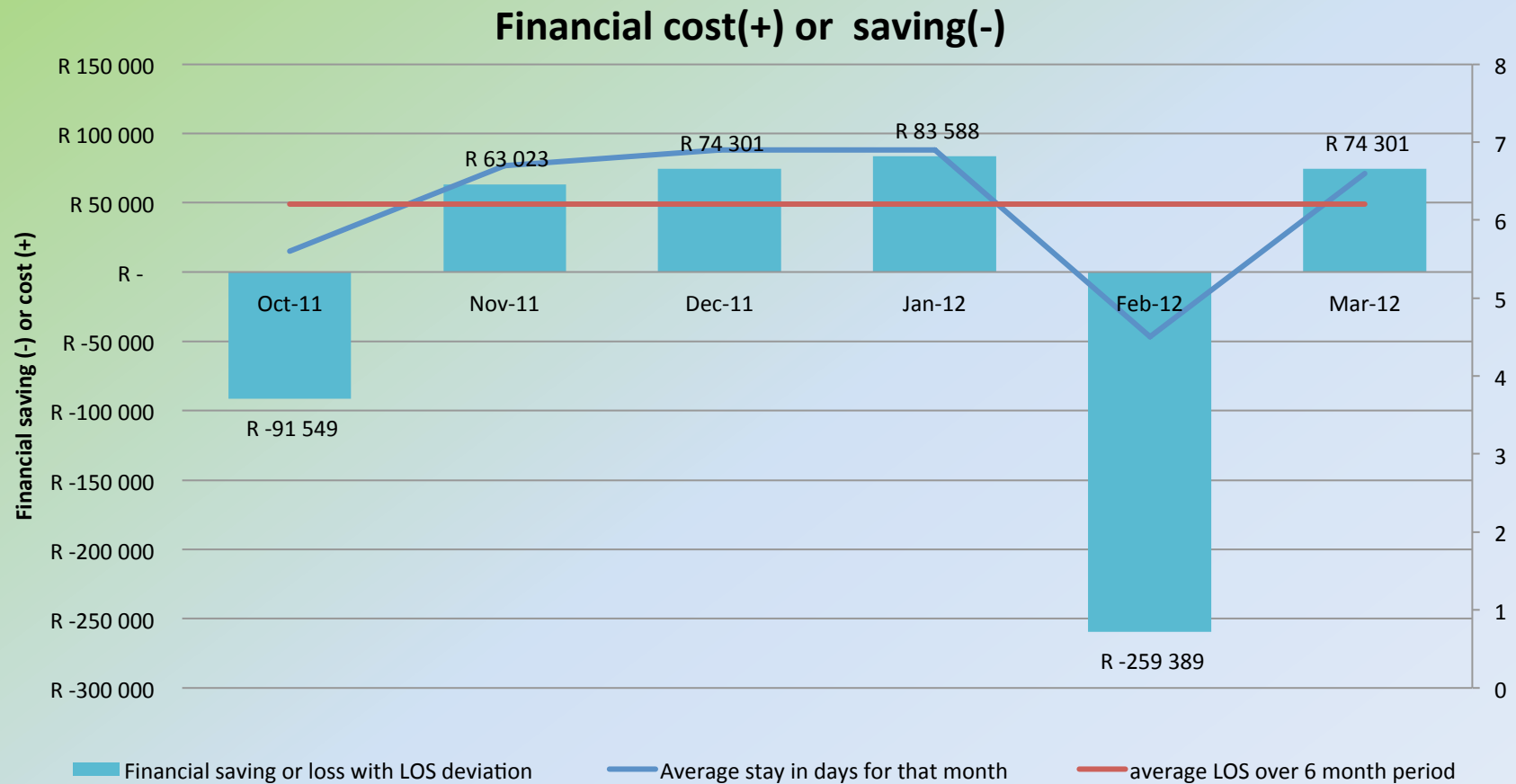
Intervention impact



Rationale for Cost implications calculation

- To understand the impact of resource limitations (no stock) from Oct 2011 till March 2012
- Costed the impact of CLABSI rate in NS ICU:
 - Change in LOS – increased infections = increased LOS
 - Costs on average R6,634 per patient day in NS ICU
 - Average LOS was 6.2 for period of mini study

Financial impact



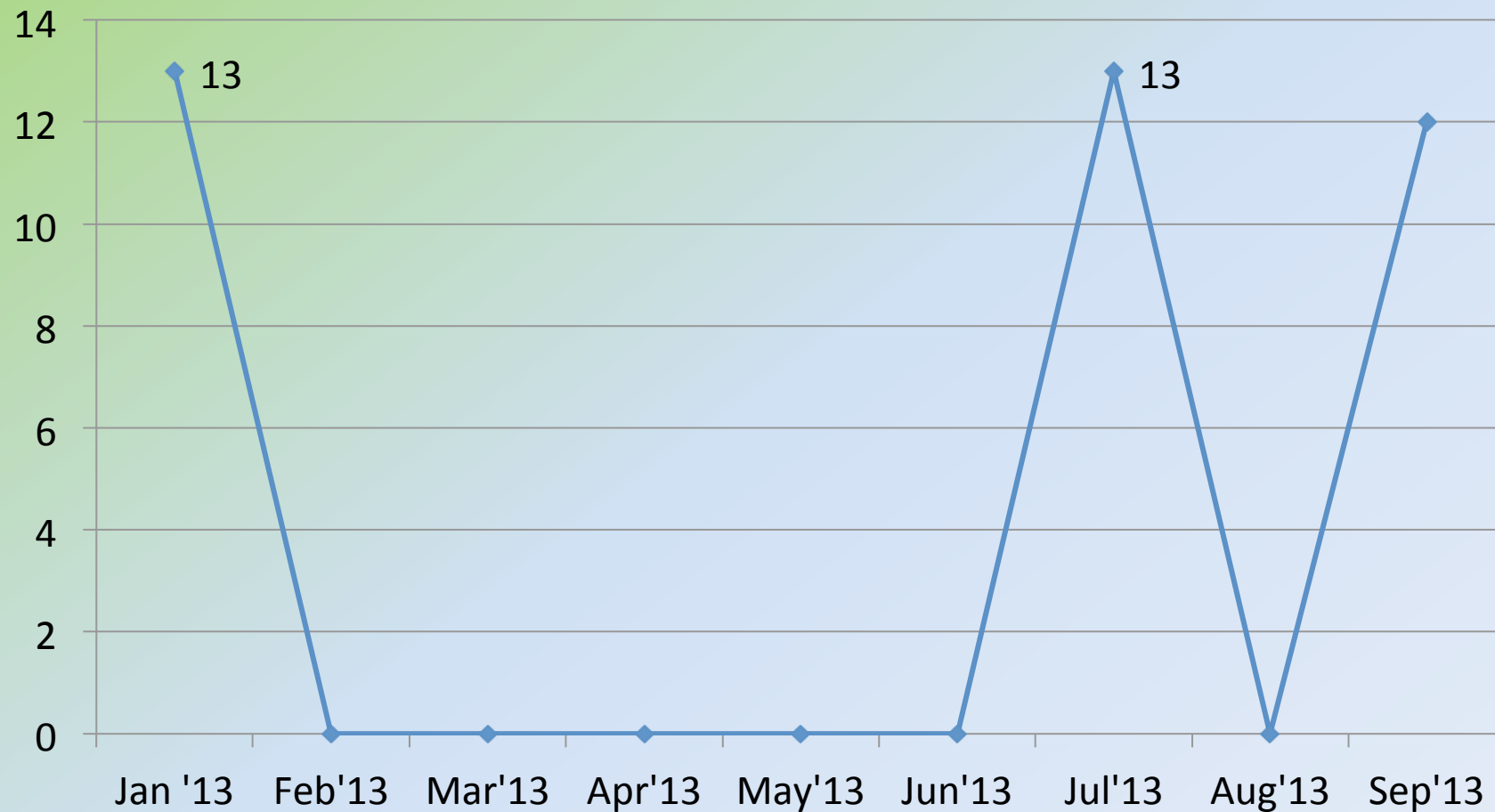
Savings over this period = R55,726

Lessons learnt at SBAH

- More than 1400 health workers including doctors at SBAH attended BCA training sessions which is continuing monthly
- An improvement in hand hygiene was noted during monthly audits in the ICU's
- Information technology skills of the nursing staff has improved
- Relevant Standard Operating Procedures (SOP's) was updated to include all the components of all the bundles

- Project is well supported by the relevant Heads of Departments (HOD)
- HOD will address non-compliance by doctors
- Management and clinical leaders supports the ICU's with immediate ordering of necessary consumables
- Management and clinical leaders has supported the ongoing implementation of the new bundles in all the ICU's, surgical and maternity wards

So we continue to achieve good results - CABSI IN NS ICU IN 2013....



SPECIAL THANK YOU TO THE FOLLOWING.....

- **OUR SBAH TEAM IN NS ICU** and Ms E de Bruin
- Dr K Faure and the IHI
- Dr D vd Berg / Dr P Soko
- Ms C Pretorius
- Prof J Pretorius / Prof A Stoltz
- Management of SBAH



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