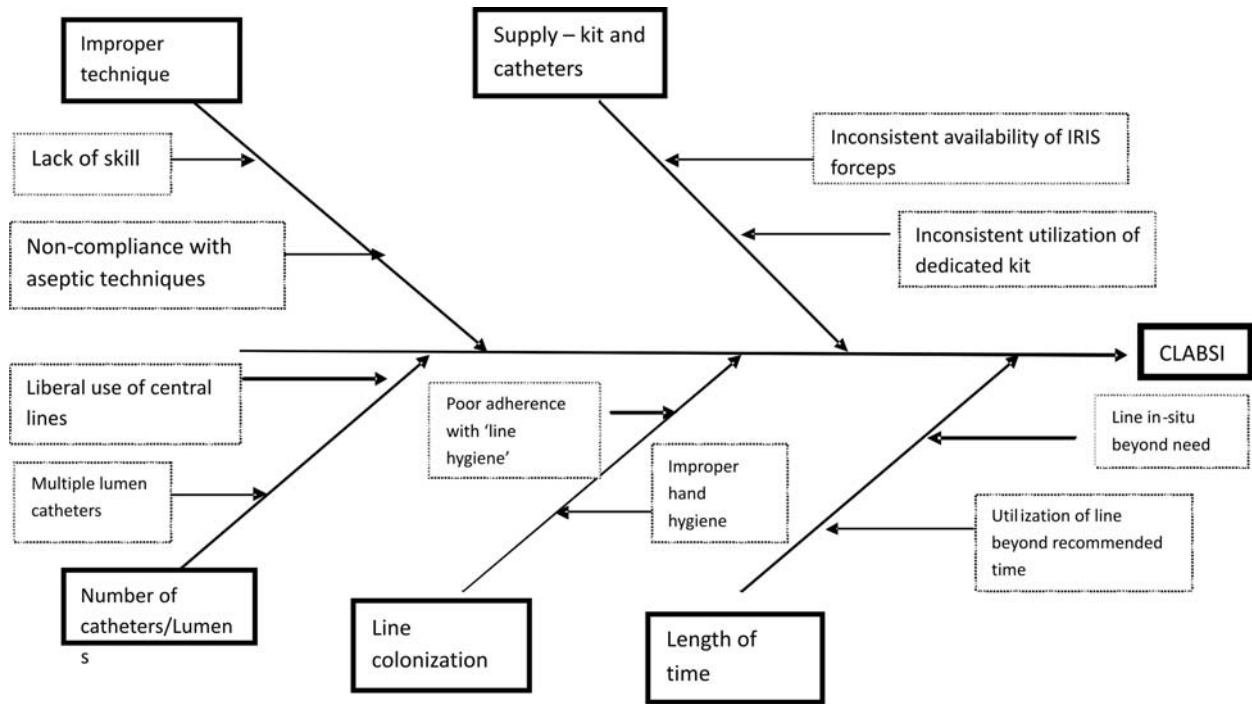


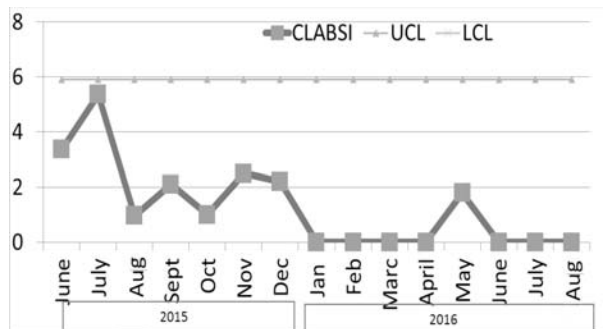
**WEB TABLE I** OUTCOME MEASURES AND PROCESS INDICATORS

<i>Attribute</i>	<i>Baseline</i>	<i>Phase 1</i>	<i>Phase 2</i>	<i>Phase 3</i>
CLABSI/1000 line days*	31.74	18.58	3.73	3.53
BSI/1000 patient days*	7.3	4.6	4.2	2.3
Line days/1000 patient days*	153.50	124.65	86.35	73.22
<i>Hand hygiene audits</i>				
Total audits (n)	20	36	92	98
Hand hygiene before (%)	90	100	98.6	97.9
Gloves when needed (%)	100	100	100	100
Hand hygiene after (%)	37	47	71.6	51
Correct number of steps (%)	NA	50	80.4	83.7
Adequate time for hand hygiene (%)	0	50	50	38.8
Overall compliance to HH (%)	0	47	50	39
<i>Central line maintenance bundle audits</i>				
Total audits (n)	NA	22	22	30
HH before (%)	NA	100	100	100
Accurate documentation of circuit break (%)	NA	81.8	59.1	70
Scrub the hub (%)	NA	81.8	68.2	66.7
Two persons job (%)	NA	59.1	86.4	76.7
Single port (%)	NA	100	100	100
Use of needleless connector (%)	NA	59.1	77.3	86.7
Overall compliance to maintenance bundle (%)	NA	59.1	68.2	66.7

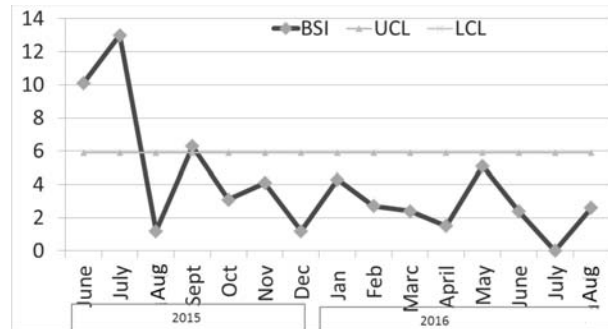
*BSI: Blood stream infection; CLABSI: Central-line-associated blood stream infection; HH: hand hygiene; P<0.05; NA: Not available.*



**WEB FIG.1** Root cause analysis for CLABSI.



(a)



(b)

**WEB FIG. 2** Control charts (a) CLABSI rates (per 1000 line days) (b) BSI rates (per 1000 patient days).