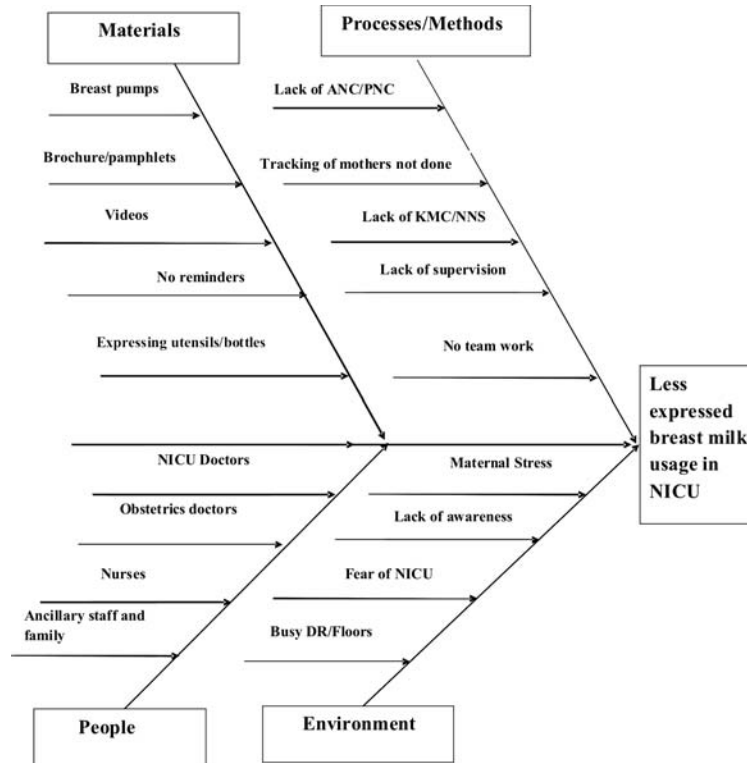
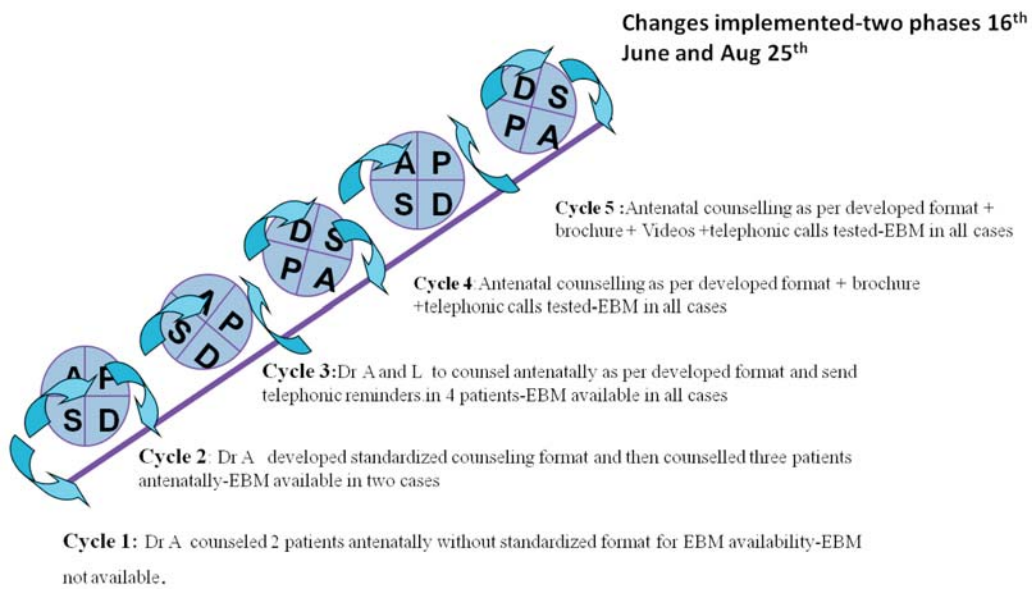


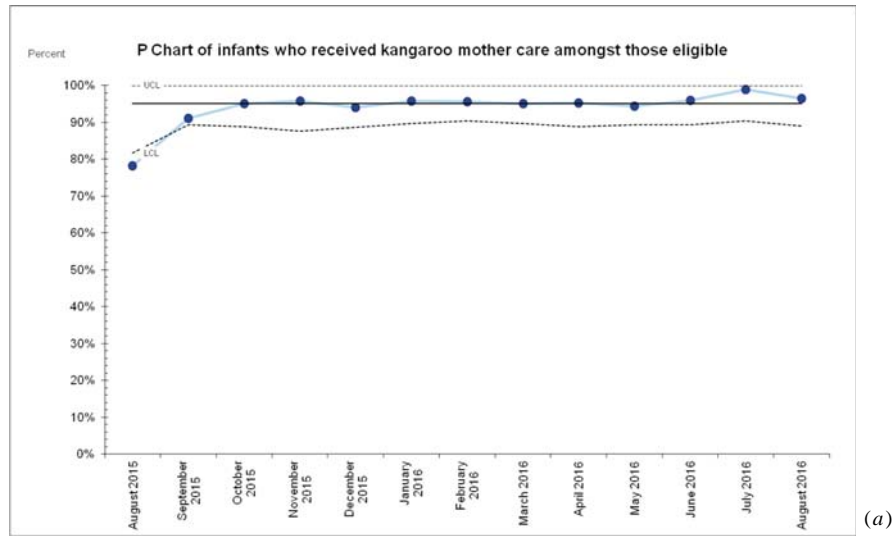
WEB FIG. 1 Driver diagram.



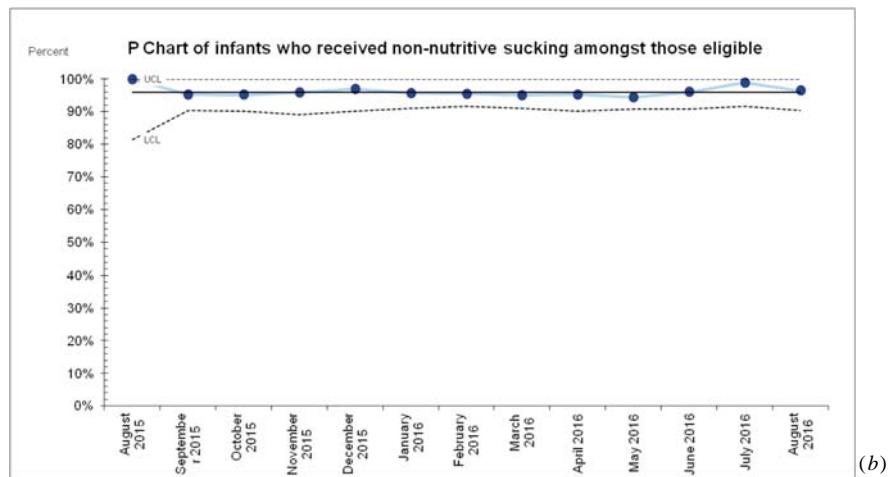
**WEB FIG. 2** Fish bone diagram showing root cause analysis of less EBM usage (ANC/PNC-Antenatal/postnatal counseling, KMC-Kangaroo mother care, NNS-Non-nutritive sucking).



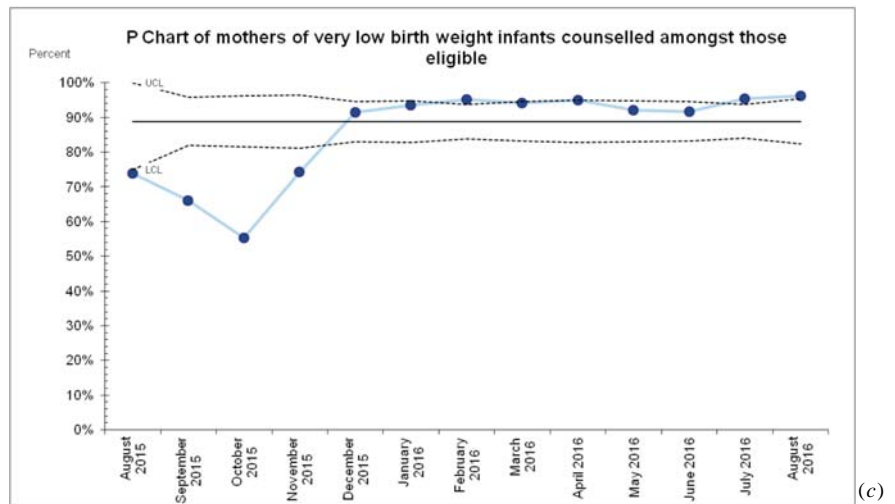
**WEB FIG. 3** PDSA Ramp - 1.



(a)



(b)



(c)

**WEB FIG. 4** (a, b, c). Process measures of kangaroo mother care, non-nutritive sucking and counselling. Arrow indicates time point of standardization of protocols.

**WEB TABLE I** COMPONENTS OF CARE BUNDLE FOR IMPROVING EXPRESSED BREAST MILK USAGE IN VLBW INFANTS

<i>Element</i>	<i>Description</i>	<i>Action required</i>	<i>Staff Involved</i>
1	Promotion of early expression of breast milk	<p><i>Antenatal/Early post-natal</i></p> <ol style="list-style-type: none"> <li>1. Antenatal counselling of mother about benefits of breast milk, how to express breast milk pump availability and how to send milk to NICU</li> <li>2. Give mothers educational brochure in English and local language with pictorials</li> <li>3. Show mothers videos about expression of breast milk</li> <li>4. Counselling of attendants at admission to NICU and giving educational brochure if not given.</li> <li>5. Send text message to mother and father at admission to express and send expressed breast milk.</li> <li>6. Telephonic reminder to mothers/attendants within 2 hours of delivery to send expressed breast milk</li> <li>7. Daily tracking of mothers who delivered in last 24 hours and Staff/Lactation counsellor visit within 24 hours of delivery</li> <li>8. Staff review/lactation consultant review of expression of milk, pump use and volume.</li> </ol>	<ol style="list-style-type: none"> <li>1, 2, 3-Lactation counsellor and resident doctor/consultant-action to be taken before delivery/in missed cases within 4-6 hours of delivery.</li> <li>4-Resident doctor/Consultant and NICU nurse in charge</li> <li>5-Lactation counsellor/nurse in charge</li> <li>6-Bed side nurse</li> <li>7-Data operator/Bedside nurse/Lactation counsellor/resident/Consultant</li> <li>8-Bedside nurse, Lactation counsellor/doctor in charge/consultant on round</li> </ol>
2.	Ongoing support for lactation and stress management	<p><i>Post-natal</i></p> <ol style="list-style-type: none"> <li>1. List Based Daily counselling of all attendants- No EBM/Partial EBM/Full EBM Daily support by kangaroo mother care and non-nutritive sucking if eligible</li> <li>2. Maternal group counselling once every two weeks for stress and lactation management</li> <li>3. Ensure availability of breast pump</li> <li>4. Daily team huddle</li> </ol>	<ol style="list-style-type: none"> <li>1.Consultant on call</li> <li>2.Bedside nurse/Lactation counsellor/resident in charge</li> <li>3.Consultant and Lactation counsellor</li> <li>4.NICU sister in charge/lactation counsellor/ bedside nurse</li> <li>5.Consultant/Lactation counsellor/Data operator</li> </ol>

*VLBW: Very low birthweight; EBM: Expressed breast milk; NICU: Neonatal intensive care unit.*