



# SAFETY ALERT

## Inaccurate Use of Medical Equipment

“Sharing Lessons Learned”

A recent Sentinel Event reported using a imbalanced weighing scale that lead to an incorrect assessment of Neonatal weight, which contributed to delay in resuscitation and death.

### Situation/Background:



30-year-old pregnant female presented with twins at gestational age of 22 weeks + 5 days. The patient had a preterm delivery; ultrasound recorded an estimated weight of twins (twin 1: 500 g), (twin 2: 300 g). The plan was to resuscitate if the Neonate was (500 g) or more.

Twin 1 was delivered and weighed (270 g), as per the plan, below 500 g, the Neonate was not resuscitated. Twin 2 was delivered and weighed (205 g). When neither Neonate reached (500 g), as estimated on the Ultrasound, twin 1 was re-weighed on a different scale and found to be (540 g). Hence, resuscitation started, but the Neonate could not be revived.

### Assessment:



**A Root Cause Analysis was done; multiple factors contributed to the event:**

- Δ Inconsistency in the CIPP with national / international guidelines: Resuscitation of Premature Neonate (CIPP- 8184) does not indicate the Neonatal weight along with the gestational age when assessing Neonatal viability.
- Δ Discrepancy in Labor and Delivery (L&D) weighing scale reading: The scale was placed on an uneven surface (trolley). The scale base was not completely touching the flat surface, which caused imbalance and inaccurate reading.



### Recommendations:



- Δ Review the Resuscitation of Premature Neonate (CIPP-8184) to align with international and institutional guidelines.
- Δ Conduct Neonatal Resuscitation Program (NRP) mock codes to ensure effective communication exists in emergencies.
- Δ Reinforce providing clear documentation as medical justification when adapting international guidelines, if inconsistent with the internal policies.
- Δ Revise the daily medical equipment checklist to include weighing scales availability, functionality, and accuracy in L&D.
- Δ Increase the frequency of checking weighing scales, Planned Preventive Maintenance (PPM), every six (6) months as high-risk equipment.
- Δ Clarify all weighing scale placements and remove the unfitted trolley used as a base for the weighing scale from L&D rooms and expedite the purchase of new suitable tables.
- Δ Implement Just Culture for the involved staff.