Infant Care Cradle
A remote monitoring system to prevent infant deaths in low-resource homes

29% of infant mortality caused by Sepsis and Pneumonia

Patient overload results in unwanted early discharge

Signs of illnesses missed by uneducated parents

Girls at higher risk due to neglect and poor nutrition

Early identification of Sepsis and Pneumonia

Remote monitoring allows continued care at home

Enables timely intervention & promotes healthy behaviour

Ensures rightful access to care for girl child

Captures 5 min video, audio report, weight & temp. every few hours

Clinicians monitor for symptoms following IMNCI Guidelines

Alerts family/health worker to seek skilled care in case of issues

In India, critical babies are often discharged early to uneducated homes; poor hygiene, care and nutrition puts them at risk of developing sepsis and pneumonia. Parents miss early signs, allowing the illness to progress resulting in severe injury or death. The govt’s home care programs are insufficient due to lack of skilled manpower, geographical and transportation challenges.

Clinical Validation underway at 3 hospitals in Karnataka

CareCradle results in early detection of sepsis, pneumonia & other complications caught late by ineffective home-based visit programs. The smart cradle routinely monitors the infant’s weight, temperature, records a 5-minute video & audio. Following IMNCI guidelines, remote staff screen the infant for RR, severe chest indrawing, nasal flaring, lethargy, grunting, sunken eyes, bulging fontanelle, lethargy and rashes.

When required, staff communicates through the cradle or calls a local health worker to retrieve the baby to seek skilled care.

Being reusable and rechargeable, the device has a low-cost structure. Having communication capability, it empowers parents to be educated and improve health-seeking behaviors. CareCradle is being developed with state govs. under the National Health Mission program, India.

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