

Health Technology Assessment of TeCHO+ Programme in Gujarat

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BACKGROUND

- The Health & Family Welfare Department, Gujarat introduced TeCHO+ (Technology for Community Health Operations) since 2019, replacing e-mamta – the mother and child tracking system.
- TeCHO+ is a mobile & web-based application that essentially enables data entry by the person providing service at the time and place of service delivery to improve the coverage and data quality.
- The programme encompasses unique features such as real-time data entry, generates alerts for high-risk cases, tracks beneficiaries as well as health workers, a web-based dashboard that enables health officials at different levels to access progress reports, and extends supportive supervision to health workers.
- These unique features are expected to enhance Gujarat's performance in eleven priority areas.

PURPOSE

- No cost-effectiveness evidence available of the TeCHO+.
- The study aimed to compare cost-effectiveness of the TeCHO+ and eMamta in Gujarat, India.

RESULTS

- The annualized cost incurred for the TeCHO+ programme was estimated to be INR 376,08,26,815.
- With this investment, the calculated cost per beneficiary amounted to (INR) 2424.
- The cost-effectiveness analysis indicated that TeCHO+ incurs an incremental cost of INR 1802.84 per DALY averted, which is below the GDP per capita of India.



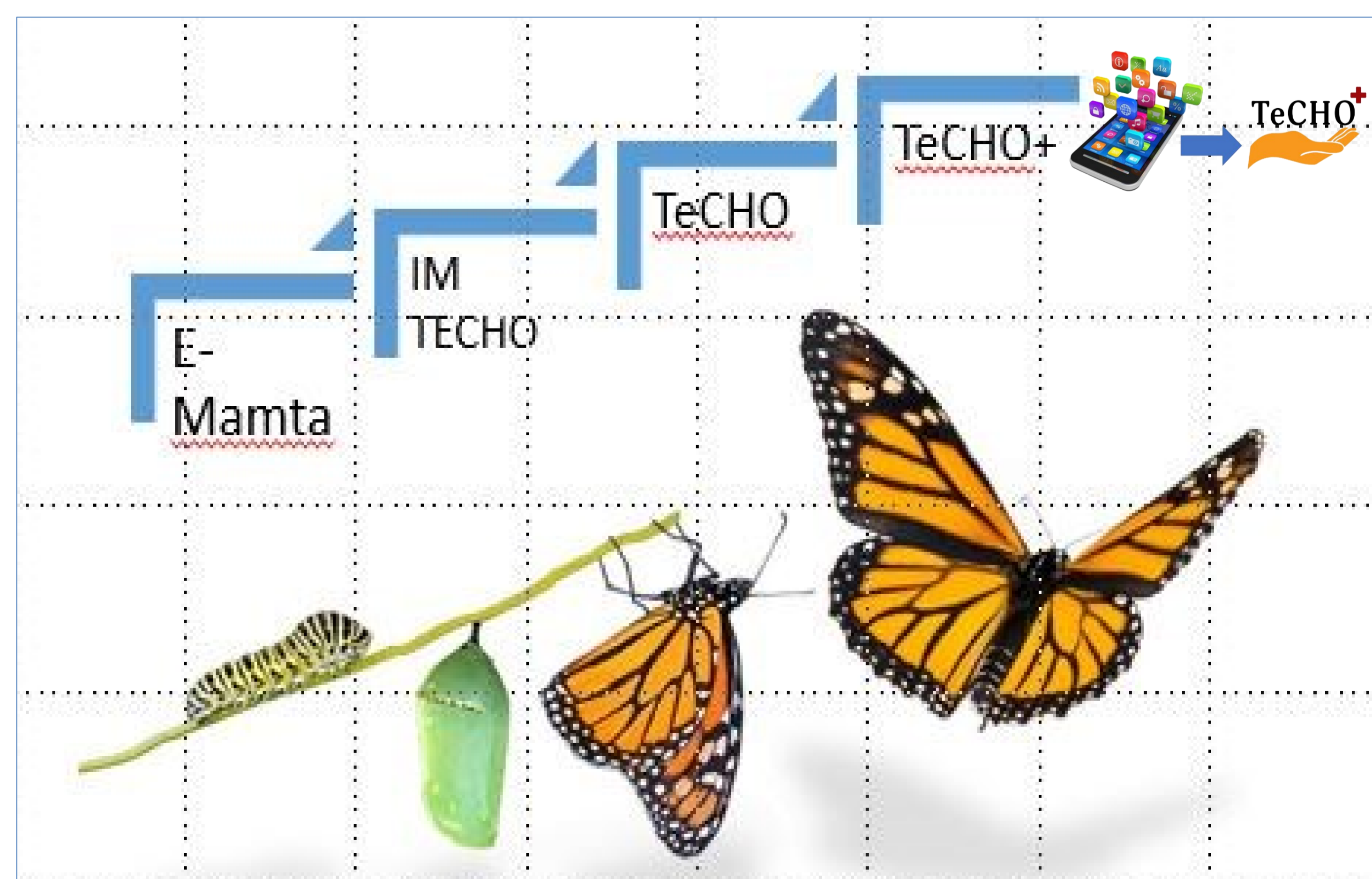
METHODS

- The study participants were surveyed from 48 sub-centres across 24 Primary Health Centres from 6 Talukas of Gujarat's three selected districts.
- A total of 385 postpartum women and mothers of 230 children were assessed at baseline and 357 postpartum women and mothers of 157 children after one year of programme intervention in 2020.
- Cost-effectiveness analysis for the TeCHO+ was done based using the decision-analytic modelling with health system perspective.
- Budget Impact Analysis (BIA) was performed to estimate the cost for the roll-out of IVIS intervention at the State level.

RECOMMENDATIONS

- The study outcomes has potential in contributing to the increased access to quality antenatal care in pregnancy, as well as post-natal care.
- TeCHO+ programme attempt to overcome gaps in MCH data and link data with facility and services.
- The TeCHO+ programme is cost-effective for Mother and Child Care and can be considered for replicating in other states or nationwide scale-up.

TeCHO+: a digital health data transformation in making



CONCLUSIONS

- Cost-effectiveness analysis clearly showed that TeCHO+ is cost-effective for Mother and Child Care.
- It incurs an incremental cost of INR 1802.84 per DALY averted, which is below the GDP per capita of India.