

BEYOND TELEREHABILITATION: REACHING CHILDREN WITH DISABILITIES DURING COVID-19 PANDEMIC IN A COMMUNITY-BASED EARLY INTERVENTION PROGRAM IN RURAL SOUTH INDIA Navamani Venkatachalapathy¹, Dinesh Krishna^{1,2}, Marie Brien^{1,2}, Sankara Raman Srinivasan¹

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Background

COVID-19 imposed challenges to the provision of face-to-face developmental services and continuity of care, compounding existing barriers faced in lower resource settings.

Objectives

We describe a community-based early intervention program in rural Tamil Nadu, Amar Seva Sangam's Enabling Inclusion® (EI) Program, that harnessed digital technology to ensure continuity of therapeutic services for children with developmental disabilities while supporting families.

Faced with the challenge of COVID-19 lockdowns, the EI Program pivoted from community-based to family-centered virtual services.

Methods

A multipronged approach was developed to optimize use of technology and community resources, including:

- (1) 'Stay-connected'- cell phone calls and messaging regarding pandemic precautions and resources, child's health and therapy needs, family wellbeing:
- From Day 1, we connected with families through calls to categorize them into families having smartphone, no phone and normal phone.
- 55 % of families had only normal phone
- > 39 % of families had smart phone; of these 27 % of families have regular data and 12% of families were not able to afford data during extended lockdown.
- \succ 6 % of families had no phone.

(2) Telerehabilitation sessions- therapy demo videos and discussion exchanges between parents and multidisciplinary rehab team:

- > Instructions on mobile phone positioning were provided to families for best visualization of therapy sessions.
- Descriptive messages of therapy/training sent to parents.
- Therapy demo videos taken by therapists and shared with \succ the parents; parents recorded their children's therapy, sessions and shared with therapists with mutual discussion for corrections/clarifications.
- \succ About 10 % of the service users shifted to live in their convenient places during COVID. Using tele-rehab, we were able to connect to continue services.

- \succ





- \geq 6% of families had no access to phones and were not reachable

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(3) Telemedicine visits with medical specialists

Regular medical follow-up were all closed due to Covid-19.

El program staff connected families with doctors in quarantine through telemedicine to utilize their services with children in need of medical follow-up.

(4) WhatsApp parent support groups-sharing lived experiences and peer-guidance

WhatsApp parent groups were formed, therapeutic postings were shared weekly, followed by parent discussions. Parent support was provided for their health care and care taking needs during pandemic.

(5) Family-centered outreach for engagement of siblings and extended family nurturing of the child in their household.



Results

During the 10 months of COVID-19 lockdowns during two waves of the pandemic in India:

> 94 % of families (2359 children and 5001 caregivers) in the program received therapeutic guidance without any gap in services

> 25% of families being reached through videoconferencing on their smartphone

▶ In total, 66,549 tele-rehab sessions and 297 medical specialists' consultations occurred and 255 participated actively in WhatsApp parent support groups.

- pandemic.
- connections.



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Conclusion

Families of children with disabilities benefitted from technology-supported family-centered services during the

Low-tech connectivity and digital platforms were successfully used in a rural low-income setting to support child developmental needs, family well-being, and peer

• The Enabling Inclusion® program continued its service provision for children and families without any break, and almost all the planned activities.

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Contact Information