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A Family-Centered Community Rehabilitation Framework for Childhood Disability: A Conceptual Model Linking Family Empowerment, Ecological Systems, and Functional Participation

Priya Sharma, Omar Hassan
AsiaBridge Institute of Technology - Thailand, Westarabia University - Saudi Arabia

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ABSTRACT

Childhood disability rehabilitation has, for much of its history, been organized around the clinic and the specialist rather than around the child's everyday life. This conceptual paper argues that such arrangements underuse the single most durable resource available to a child with a disability, namely the family embedded within its community. Drawing together the biopsychosocial logic of the International Classification of Functioning, Disability and Health for Children and Youth, family-systems thinking, Bronfenbrenner's ecological theory, and the practice principles of family-centered service and community-based rehabilitation, we propose the Family-Centered Community Rehabilitation (FCCR) framework. The framework is built from five interacting domains: family empowerment, community integration, equitable access, cultural responsiveness, and functional participation. We describe the assumptions that hold these domains together, trace the mechanisms through which family capacity is converted into a child's participation, and offer a transparent way of operationalizing the model through a weighted composite index and a small set of measurable indicators. An illustrative application shows how the framework can guide the redesign of a rehabilitation pathway in a setting such as the United Arab Emirates, where the language of "People of Determination" already signals a shift toward participation and rights. We close by acknowledging the limits of a conceptual contribution that still awaits empirical calibration, and by setting out a research agenda through which the framework could be tested. The intended contribution is integrative rather than novel in its parts: it gives practitioners and policymakers a single, coherent scaffold on which existing evidence about families, communities, and childhood disability can be organized and acted upon.

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*Corresponding author: priya.sharma@asiabridge.cn
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1. Introduction

The way a society chooses to rehabilitate its children with disabilities says a great deal about how it understands disability itself. Where disability is read primarily as a deficit located inside the child, rehabilitation tends to gravitate toward the clinic: a schedule of specialist appointments, discrete therapeutic doses, and outcomes measured on the body. Where disability is read instead as a relationship between a child and the environments the child must navigate, rehabilitation starts to look different. It becomes less an intervention delivered to a passive recipient and more a sustained effort to change the conditions of everyday life so that the child can take part in them. This paper is written from the second of these positions, and it takes seriously a consequence that the field has long acknowledged but not always organized around: the environment that matters most to a young child is, overwhelmingly, the family and the community in which the family lives.

There are good reasons to place families at the center of the analysis. Children spend the vast majority of their waking hours outside any therapeutic setting, and the routines that shape motor skill, communication, and social confidence are enacted at home, in the neighbourhood, and at school rather than in the therapy room. Reviews of family-centered service in paediatric rehabilitation have consistently reported that when parents are treated as partners rather than as auxiliaries, satisfaction rises and children's functional goals are more likely to be met (King, Teplicky, King, & Rosenbaum, 2004). A meta-analysis of parents' own perceptions found that the experience of receiving family-centered care is associated with better psychosocial outcomes for the family as a whole (Almasri, An, & Palisano, 2018). These are not marginal findings; they point to the family as an active mechanism of change rather than as a backdrop to it.

And yet the translation of this insight into the architecture of services remains uneven. Qualitative work continues to document the barriers that keep family-centered care aspirational rather than routine, from time pressure and rigid ward cultures to the simple absence of structures that would let parents contribute (Nematifard, Norouzi Tabrizi, Arsalani, Fallahi-Khoshknab, & Borimnejad, 2023). Even where the model is formally adopted, its fidelity in practice can be modest, as a recent examination of early disability diagnosis and rehabilitation services in the United Arab Emirates made clear (Opoku et al., 2024). The gap, in other words, is not principally one of evidence or of good intention. It is a gap of integration: the field possesses many of the right pieces without a shared frame that shows how they fit together and what a family- and community-anchored system would actually require.

This paper offers such a frame. Our aim is deliberately synthetic rather than empirical. We do not report new data; we propose a conceptual model, the Family-Centered Community Rehabilitation (FCCR) framework, that draws established theory and evidence into a single coherent structure and makes that structure usable. The contribution is threefold. First, we articulate the theoretical foundations on which a family- and community-centered account of childhood rehabilitation can rest, showing how four bodies of thought converge. Second, we specify the framework itself as five interacting domains and describe the pathways that link family capacity to a child's participation. Third, we take the often-neglected step of operationalizing the model, proposing a transparent composite index and a compact set of indicators so that the framework is not merely descriptive but can inform measurement, service design, and evaluation. Throughout, we read the argument against the context of the Gulf and the UAE in particular, where the vocabulary of People of Determination already reflects a rights- and participation-oriented understanding of disability that the framework is well suited to serve (Alhumaidan & Habbal, 2025).

2. Approach to Framework Development

Because the paper proposes a conceptual model rather than testing a hypothesis, its method is one of structured synthesis rather than data collection, and it is worth being explicit about how the framework was assembled so that readers can judge its warrant. We proceeded in three overlapping movements. We began by identifying the theoretical traditions that have shaped thinking about disability, families, and development, and asked of each what it contributes to an account of childhood rehabilitation and where it falls silent. We then reviewed empirical literature on family-centered service, parent-mediated intervention, and community-based rehabilitation, drawing on peer-reviewed sources located through biomedical databases and on studies published in the disability-studies literature, in order to establish which mechanisms have empirical support. Finally, we abstracted from this material a small number of domains that recurred across traditions and evidence, and organized them into a structure that is internally consistent and, importantly, operationalizable.

Two principles disciplined the synthesis. The first is parsimony: a framework that practitioners cannot hold in mind is unlikely to change practice, so we resisted the temptation to multiply domains and settled on five that

are conceptually distinct yet jointly capture the family- and community-level factors the evidence implicates. The second is measurability: each domain was retained only if we could name plausible indicators for it, since a conceptual model that cannot in principle be measured offers little to a field that must ultimately demonstrate value. The result is not a systematic review, and it does not claim the completeness that such a review would require. It is, rather, an integrative proposal, and it should be read as an invitation to empirical scrutiny rather than as a settled account.

3. Conceptual and Theoretical Foundations

Four traditions inform the framework. None is sufficient on its own; taken together they supply the vocabulary, the causal logic, and the value commitments that the model requires. Table 1 summarizes how each contributes and where the framework extends it.

3.1 The biopsychosocial model and the ICF-CY

The most consequential shift in twentieth-century thinking about disability was the move from a purely medical account to a biopsychosocial one, formalized for children in the International Classification of Functioning, Disability and Health for Children and Youth (World Health Organization, 2007). The ICF-CY reframes a child's difficulties not as attributes of the child alone but as the product of an interaction between health conditions and contextual factors, among which the environment figures prominently. This is more than a rhetorical adjustment. By making participation, defined as involvement in life situations, a distinct and legitimate outcome, the ICF-CY licenses rehabilitation goals that reach beyond impairment reduction to the child's actual social life. It also, crucially, names environmental factors as targets in their own right, which is precisely the conceptual opening that a family- and community-centered framework needs.

3.2 Family systems and family-centered service

If the ICF-CY tells us that the environment matters, family-systems thinking tells us how the most immediate environment is structured. A family is not a collection of individuals but an interdependent system in which a change to one member reverberates through the others; a child's disability is therefore experienced, absorbed, and responded to by the family as a whole. Family-centered service translates this understanding into practice principles: that parents know their children best, that families differ and services should flex to them, and that the unit of care is the family rather than the child in isolation (King et al., 2004). The empirical case has accumulated steadily. Structured family-centered workshops have improved outcomes for children with developmental delays (Hsieh, Lee, & Hsieh, 2018), and parent-mediated programmes have produced gains in communication for children with Down syndrome (O'Toole, Lee, Gibbon, van Bysterveldt, & Hart, 2018) and in social skills when delivered even at a distance through telehealth (Factor, Glass, Baertschi, & Laugeson, 2022). What these studies share is a common mechanism: the parent, suitably supported, becomes the agent of the child's development.

3.3 Bronfenbrenner's ecological systems theory

Family-systems thinking stops at the household door; Bronfenbrenner's ecological theory carries the analysis outward. In this account the developing child sits at the centre of a set of nested systems, from the immediate microsystem of family and school, through the mesosystem of relationships among those settings, to the wider exosystem and macrosystem of services, institutions, and cultural belief. Development is shaped by the quality of interactions within and across these layers. The value of the theory for rehabilitation is that it refuses to let us treat the family as an island. A parent's capacity to support a child is itself conditioned by the community around the family, by the services the community makes available, and by the cultural meanings attached to disability. A framework that hopes to change a child's participation must therefore intervene not at one level but across several, and it must attend to the alignment between them.

3.4 Community-based rehabilitation and the rights tradition

The fourth tradition supplies both a delivery strategy and a value commitment. Community-based rehabilitation (CBR), articulated in the World Health Organization's guidelines, emerged as a response to the scarcity of specialist services in much of the world and reconceived rehabilitation as something that communities do with and for their members rather than something imported from a distant clinic (World Health Organization, 2010). Its evidence base in childhood disability has grown, including community-delivered early-detection and intervention programmes for infants at high risk of cerebral palsy in low-resource settings (Benfer et al., 2018), and community initiatives that confront the stigma which so often isolates families of children with disabilities (Luna, Martinez, Lalla, Addiss, & Penney, 2022). Alongside its practicality, CBR carries a normative charge that connects it to the rights-based understanding of disability now enshrined in international convention: the aim is not merely to treat but to include, and

inclusion is owed to the child as a matter of justice rather than granted as a matter of charity. Recent work within the disability-studies literature on how families draw on their own cultural and religious resources to sustain the care of children with disabilities shows how deeply this normative dimension is woven into everyday practice (Bouchouar & Achraouaou, 2025).

Table 1. Theoretical foundations of the FCCR framework and their contribution.

Tradition	Core contribution	What the framework adds
ICF-CY / biopsychosocial	Recasts disability as a person–environment interaction; legitimizes participation as an outcome.	Makes environmental modification an explicit, measurable target rather than a background condition.
Family-systems theory	Treats the family as an interdependent unit of care; the child's development is a family process.	Positions family empowerment as a distinct domain with its own indicators.
Ecological systems theory	Situates the child within nested, interacting systems from family to culture.	Requires coordinated action across levels and attention to their alignment.
Community-based rehabilitation & rights	Relocates rehabilitation into the community; frames inclusion as justice.	Supplies the access, integration, and cultural-responsiveness domains and a normative anchor.

4. The Family-Centered Community Rehabilitation Framework

4.1 Overview and guiding assumptions

The FCCR framework rests on three assumptions that follow from the foundations above. The first is that the family is the primary and most enduring rehabilitative environment for a young child, so that building family capacity is not an adjunct to treatment but a central objective of it. The second is that a family's capacity is itself embedded, enabled or constrained by the community, services, and culture around it, so that supporting families and shaping their environments are two aspects of a single task. The third is that the ultimate criterion of success is the child's participation in valued life situations, which means that gains at the level of impairment matter chiefly insofar as they translate into a fuller everyday life. These assumptions are not controversial in isolation; the framework's contribution is to hold them together and to insist that a system honour all three at once.

4.2 Five interacting domains

From the synthesis we derive five domains, represented in Figure 1 as a set of nested environments with the child and the child's participation at the centre. They are not a checklist to be worked through in sequence but interacting dimensions of a single system, and the framework's logic lies as much in their interaction as in each one taken alone.

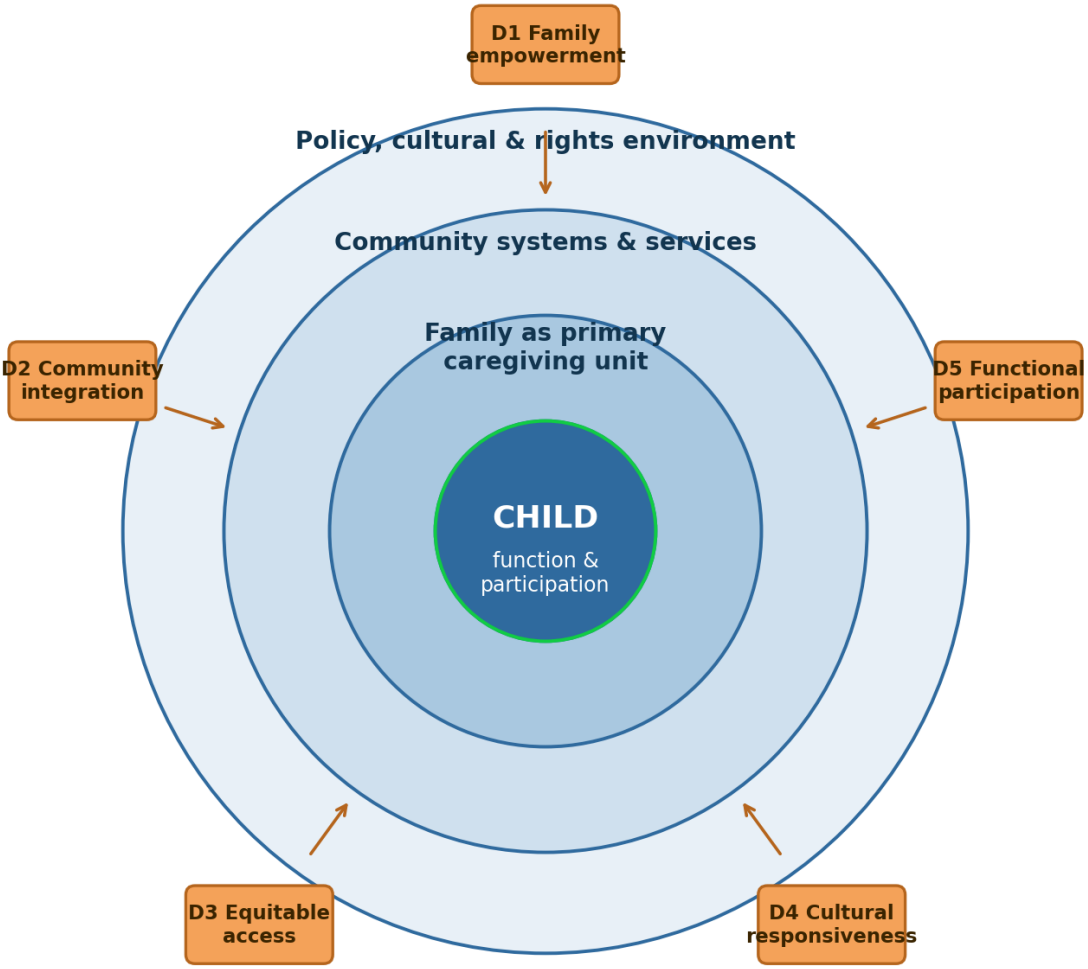

Figure 1. The FCCR framework: five domains organized around the child within nested family, community, and policy environments.

Family empowerment (D_1) concerns the knowledge, confidence, and agency of caregivers, and their genuine partnership in decisions about the child. It is the engine of the model, because it is through empowered caregivers that most of the child's daily developmental opportunities are created. Community integration (D_2) concerns the extent to which the child and family are woven into the ordinary life of their community, from schools and playgrounds to peer networks, and the extent to which the community is organized to receive them. Equitable access (D_3) concerns the availability, affordability, and reachability of the services and supports the family needs, including the increasingly important role of accessible technology in extending reach (Shaikh, Sayed, Sahakyan, Muradyan, & Rubinger, 2025). Cultural responsiveness (D_4) concerns the degree to which services align with the family's language, values, and beliefs, recognizing that families mobilize cultural and religious meaning in caring for a child with a disability and that ignoring this meaning wastes a powerful source of motivation (Bouchouar & Achraouaou, 2025). Functional participation (D_5) is the outcome domain: the child's actual involvement in family, school, and recreational life, understood in the ICF-CY sense and known to follow its own developmental trajectory that services can bend (Alghamdi, Chiarello, Palisano, & McCoy, 2017; Tan et al., 2014).

Table 2. The five FCCR domains, their focus, and illustrative indicators.

Domain	Focus	Illustrative indicators

D_1 Family empowerment	Caregiver knowledge, confidence, agency, and partnership in decisions.	Caregiver self-efficacy score; presence of jointly set goals; parent participation in care planning.
D_2 Community integration	Inclusion of child and family in ordinary community life.	School enrolment and attendance; participation in peer/recreational activities; community awareness activity.
D_3 Equitable access	Availability, affordability, and reach of needed supports.	Distance/time to services; unmet-need rate; uptake of tele-rehabilitation and assistive technology.
D_4 Cultural responsiveness	Alignment of services with family language, values, and beliefs.	Availability of services in home language; use of culturally congruent materials; family-reported respect.
D_5 Functional participation	The child's involvement in valued life situations (outcome).	Participation frequency and involvement measures; goal attainment; trajectory of social participation.

4.3 Mechanisms and pathways

A framework earns its keep by specifying not only what matters but how the parts move one another. In the FCCR model the causal spine runs from the enabling domains, through family empowerment, to the child's participation. Community integration, equitable access, and cultural responsiveness are best understood as conditions that raise or lower a family's capacity to act; family empowerment converts that capacity into the routines, opportunities, and advocacy that a child needs; and participation is the result. This is why the model places family empowerment at the causal centre even though it is not the final outcome. It is the pivot on which the environmental inputs turn into the child's everyday life.

The pathway is reciprocal rather than one-way. A child who participates more fully changes how the community sees the family and how the family sees itself, feeding back into integration and empowerment; and services that succeed in one domain tend to make progress in others easier. Practice guidelines for children with cerebral palsy have moved decisively toward active, goal-directed, participation-focused intervention embedded in everyday routines, precisely the kind of approach the pathway predicts (Jackman et al., 2022; Faccioli et al., 2023). Goal-setting, in particular, is the practical hinge at which family priorities enter the clinical process, and the literature treats it as a shared undertaking rather than a professional monopoly (Pritchard-Wiart & Phelan, 2018). The framework's claim is not that any single link is novel but that arranging them in this sequence clarifies where a struggling system should intervene.

5. Operationalizing the Framework

Conceptual models are often criticized, fairly, for stopping at the point where measurement should begin. To avoid that fate we propose a transparent way of scoring a service or a pathway against the framework. The intent is not to reduce a child's life to a number but to give planners a defensible, comparable summary of how far a system honours the five domains, and to make the framework's implicit weighting explicit and therefore debatable.

Let each domain be scored on a normalized scale from 0 to 1, where D_1 through D_5 denote family empowerment, community integration, equitable access, cultural responsiveness, and functional participation respectively. A composite Family-Centered Community Rehabilitation Index (FCCRI) is then the weighted sum

$$FCCRI = w_1D_1 + w_2D_2 + w_3D_3 + w_4D_4 + w_5D_5 ,$$

subject to $\sum w_i = 1, 0 \le w_i \le 1, 0 \le D_i \le 1$,

so that the index itself lies between 0 and 1 and can be read as the proportion of the framework's ideal that a system currently realizes. The weights w_i are a matter of explicit policy choice rather than statistical accident: a jurisdiction that treats participation as the paramount outcome may place additional weight on D_5, while one confronting geographic inequity may weight D_3 more heavily. Setting the weights in the open is itself valuable, because it forces a service to state what it is trying to maximize. In the absence of a considered preference, equal weights ($w_i = 0.2$) provide a neutral starting point.

Because the enabling domains act on participation largely through family empowerment, a purely additive

index understates the interactions the model posits. Where data permit, an interaction-sensitive variant captures this by letting realized participation depend multiplicatively on empowerment and the mean of the enabling conditions, for example $\hat{P} = D_1 \times (D_2 + D_3 + D_4) / 3$, which has the intuitively correct property that participation collapses when either family capacity or the surrounding conditions approach zero. The additive index is best suited to system-level benchmarking and the multiplicative expression to reasoning about why a particular child or family is not progressing. Neither is offered as a validated instrument; both are offered as disciplined ways of turning the framework into something a service can actually compute, revisit, and argue about.

6. An Illustrative Application

To show the framework at work, consider a stylized comparison between a conventional institution-centered pathway and one redesigned along FCCR lines, of the kind a service in the United Arab Emirates might undertake as it operationalizes the participation-oriented ethos already implied by the term People of Determination. The comparison in Figure 2 is illustrative rather than empirical; the domain scores are plausible values used to make the logic visible, not measurements from a study.

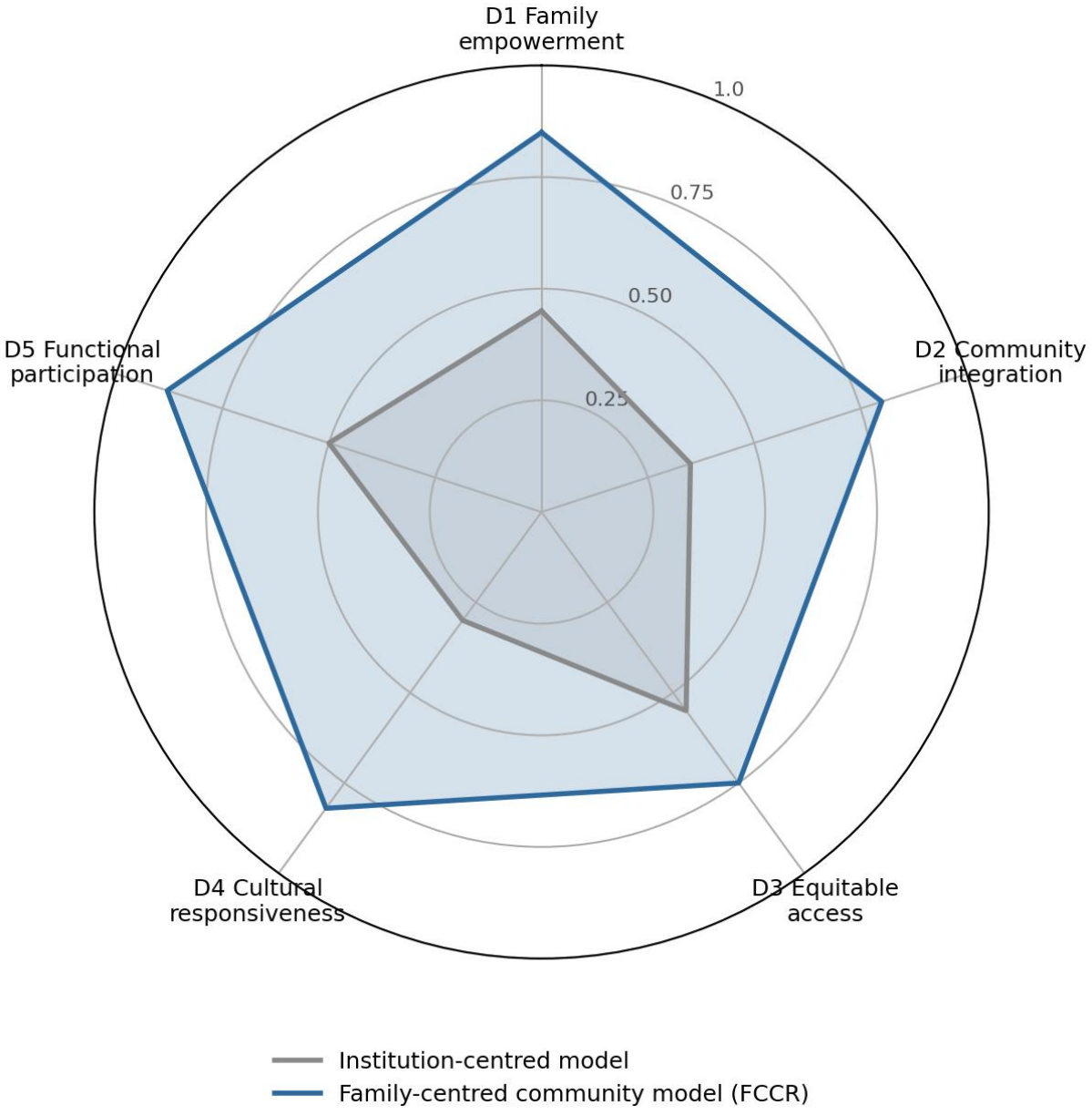

Figure 2. Illustrative domain profiles for an institution-centered pathway and an FCCR-aligned pathway (values are conceptual, not empirical).

The contrast the figure is meant to dramatize is not that the institution-centered pathway fails on every count but

that it is uneven, comparatively strong on access to specialist services yet weak on the family- and community-level domains that the framework treats as decisive. An FCCR-aligned redesign would not abandon specialist care; it would rebalance the system so that specialist expertise is put at the service of family capacity rather than substituting for it. Table 3 sketches what such a redesign changes in practice across the five domains.

Table 3. Illustrative redesign of a rehabilitation pathway from an institution-centered to an FCCR-aligned model.

Domain	Institution-centered pathway	FCCR-aligned pathway
D1 Family empowerment	Parents receive instructions at the end of sessions.	Parents are trained as co-therapists; goals are set jointly and reviewed together.
D2 Community integration	Rehabilitation is separate from school and neighbourhood life.	Therapy targets are embedded in school routines and community activities; peer inclusion is planned.
D3 Equitable access	Care requires travel to a central specialist centre.	Local workers and tele-rehabilitation extend reach; assistive technology is provided and supported.
D4 Cultural responsiveness	One service model is applied to all families.	Materials and communication are adapted to language and belief; family values inform goals.
D5 Functional participation	Success is measured on the body in the clinic.	Success is measured as participation in family, school, and recreational life over time.

Read together, the figure and the table make the framework's practical claim concrete. The move from the left-hand to the right-hand column in each row is small in isolation; their cumulative effect is a system that acts on the family and its community as the primary levers of a child's development rather than treating them as the setting in which clinical work happens to land. The redesign also aligns with the direction of travel in the region's own scholarship, which has begun to document how learning technologies and assistive tools can support the behavioural development and inclusion of children and young people with disabilities when they are placed in the hands of families and educators rather than confined to clinics (Alhumaidan & Habbal, 2025; Shaikh et al., 2025).

7. Discussion

The FCCR framework is, at bottom, an argument about where the leverage lies in childhood disability rehabilitation. Its wager is that a field which has invested heavily in refining what specialists do within the clinic can gain more, for more children, by investing in what families and communities do outside it. That wager is consistent with the accumulated evidence on family-centered service and parent-mediated intervention, and with the movement of clinical guidelines toward participation-focused, everyday-embedded practice (King et al., 2004; Jackman et al., 2022). What the framework adds is coherence: it names the domains that such a reorientation must address, specifies how they relate, and shows how the whole can be measured.

The model speaks with particular directness to the Gulf context. The United Arab Emirates has adopted, in both policy and language, an understanding of disability oriented toward determination, capability, and inclusion, and its research community has begun to interrogate how services live up to that understanding. The finding that a family-centered model can be adopted in name while achieving only modest fidelity in practice is exactly the problem the FCCR framework is designed to expose and address, because a system that scores well on access but poorly on family empowerment and cultural responsiveness will register that imbalance in its index (Opoku et al., 2024). Equally, the regional literature's attention to the cultural and religious resources on which families draw, and to the role of learning and assistive technologies in extending inclusion, maps onto the framework's cultural-responsiveness and access domains and suggests that the pieces of an FCCR-aligned system are already present in the setting, awaiting integration (Bouchouar & Achraouaou, 2025; Alhumaidan & Habbal, 2025).

Set against existing models, the framework's distinctiveness is integrative rather than oppositional. Family-centered service already foregrounds the family;

community-based rehabilitation already foregrounds the community; the ICF-CY already foregrounds participation. Each, on its own, leaves something important in shadow, the family model can neglect the wider ecology, the community model can under-theorize the household, and the classification can describe without prescribing. By holding all three within a single structure and adding an explicit means of measurement, the FCCR framework aims to be usable in precisely the situations where the separate traditions leave a planner unsure how to proceed. Its value, if it has value, will lie less in any single claim than in the way it lets a service see its own gaps.

8. Limitations

Several limitations follow from the nature of the contribution. The framework is conceptual and has not been empirically validated; its domains are theoretically motivated and evidence-informed, but the composite index and its weights are proposals awaiting calibration against real outcomes rather than tested instruments. The synthesis on which the model rests was structured but not systematic, and a formal review might weight the evidence differently or surface constructs we have folded into existing domains. The illustrative application uses plausible rather than measured values, and is intended to clarify the logic, not to demonstrate effect. There is, too, a risk that a framework so centred on the family could be misread as shifting responsibility onto caregivers who are already stretched; we regard the enabling domains, and especially equitable access, as the safeguard against that misreading, since the model treats family capacity as something a system must resource rather than presume. Finally, the framework has been developed with young children primarily in view, and its transfer to adolescence, where the young person's own agency becomes central, would require adjustment.

9. Conclusion and Future Directions

This paper has proposed the Family-Centered Community Rehabilitation framework as a way of organizing what the field already knows about families, communities, and childhood disability into a single, actionable structure. The framework draws together the biopsychosocial logic of the ICF-CY, family-systems and ecological theory, and the practice of community-based, rights-oriented rehabilitation; it specifies five interacting domains and the pathways among them; and it offers a transparent means of turning that structure into measurement. Its ambition is modest in one sense and considerable in another: modest because its parts are drawn from established traditions, considerable because integrating them changes where a service looks for leverage.

The obvious next step is empirical. The index needs to be operationalized with validated indicators and calibrated against participation outcomes, so that its weights reflect evidence rather than assumption. The pathway that runs from enabling conditions through family empowerment to participation invites longitudinal test, and the framework as a whole invites implementation studies in settings, the UAE prominent among them, where the policy commitment to inclusion is already in place and the question is one of delivery. Should such work bear out the framework's central claim, the practical implication is clear enough: that the most powerful rehabilitative resource available to a child with a disability is a capable family within a receptive community, and that the task of a rehabilitation system is, above all, to build and sustain it.

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