#### **FROM THE FIELD**



# Home Visiting Services During the COVID-19 Pandemic: Program Activity Analysis for Family Connects

Anna Rybińska<sup>1</sup> · Debra L. Best<sup>2</sup> · W. Benjamin Goodman<sup>1</sup> · Winona Weindling<sup>1</sup> · Kenneth A. Dodge<sup>3</sup>

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## Abstract

**Purpose** Early reports highlighted challenges in delivering home visiting programs virtually during the COVID-19 pandemic but the extent of the changes in program implementation and their implications remains unknown. We examine program activity and families' perceptions of virtual home visiting during the first nine months of the pandemic using implementation data for Family Connects (FC), an evidence-based and MIECHV-eligible, postpartum nurse home visiting program.

**Description** Aggregate program implementation data for five FC sites for January-November of 2019 and 2020 are compared. The COVID-19 Modification Survey is used to analyze families' reactions to virtual program delivery.

**Assessment** Post-pandemic onset, FC's program completion rates amounted to 86% of the pre-pandemic activity level. Activity in key components of the intervention—home-visitor education and referrals to community agencies—was maintained at 98% and 87% of the pre-pandemic level respectively. However, education and referrals rates declined among families of color and low-income families. Finally, families reported a positive response to the program, with declines in feelings of isolation and increases in positive attitudes toward in-person medical care-seeking due to FC visits.

**Conclusions** During the first nine months of the COVID-19 pandemic, families' interest in home visiting remained strong, performance metrics were maintained at high levels, and families responded positively to the virtual delivery of home visiting. Home visiting programs should continue implementation with virtual modifications during the remainder of the pandemic but attention is needed to address growing disparities in access to home visiting benefits among marginalized communities. **COVID-19 pandemic · Family Connects · MIECHV · Virtual home visiting** 

Anna Rybińska a.rybinska@duke.edu

Debra L. Best debra.best@duke.edu

W. Benjamin Goodman ben.goodman@duke.edu

Winona Weindling winona.weindling@duke.edu

Kenneth A. Dodge dodge@duke.edu

<sup>1</sup> Center for Child and Family Policy, Duke University, Duke, Box 90539, Durham, NC 27708, USA

<sup>2</sup> Department of Pediatrics, Duke University School of Medicine, UMC, Box 3675, Durham, NC 27710, USA

<sup>3</sup> Sanford School of Public Policy, Duke University, Box 90245, Durham, NC 27708, USA

## Significance

Home visiting programs temporarily transitioned to providing services virtually when the Covid-19 pandemic started. Reports about home-visiting program activity using virtual means post-pandemic onset remain scarce and families' perceptions of virtual home-visiting services remain understudied. In this paper, we compare program activity for a universal postpartum home-visiting program (Family Connects) between pre-pandemic in-person services and post-pandemic onset virtual services. Families' reactions to virtual home-visiting services are also described. Findings can be used to inform maternal, infant, and early childhood home visiting programs' implementation during the continuing public health emergency to support program staff and participating families.

## Introduction

Home visiting programs are an established public health service designed to promote maternal and infant health and family well-being. In the United States, \$400 million in federal funds are allocated annually to evidence-based home visiting programs through the Maternal, Infant, and Early Childhood Home Visiting Program (MIECHV) (Health Resources & Services Administration, 2020). In 2019 alone, 1,540,000 American parents and children participated in visiting programs supported by MIECHV (Health Resources & Services, Administration, 2020).

During the ongoing COVID-19 pandemic, most home visiting models transitioned from in-home visits to virtual visiting (Zero To Three, 2020) and faced a daunting challenge of delivering care and intervention without in-home presence. The shift generated questions about the feasibility of delivering federally-funded programs via virtual means and the appropriateness of using federal and local funds to support home visiting services which are delivered virtually rather than in-person. At the same time, families with small children have been severely affected by unemployment, lack of childcare, and isolation from extended family during the pandemic (Cluver et al., 2020). In these unprecedented times, virtual home visiting services constitute an essential connection for families, addressing immediate needs and connecting families to community agencies for further support (Williams et al., 2020).

How has home visiting fared during the pandemic? Early evidence about the impact of COVID-19 on home visiting comes from home visiting staffs' self-reports collected in spring and summer of 2020 (Marshall et al., 2020; Self-Brown et al., 2020). These findings indicate that home visiting programs remained operational during the pandemic, but performance was affected by challenges in virtual program delivery (for instance, limited internet connectivity or lack of adequate devices to participate in telehealth) and COVID-19 related disruptions in providers' and families' daily routines (such as lack of adequate child care or need to home school) (Marshall et al., 2020; Self-Brown et al., 2020).

What remains unknown is the impact of virtual delivery and the pandemic on home visiting program performance metrics such as program uptake, follow-through rates, and adherence to evidence-based program components such as community referrals. In addition, little is known about families' perception of receiving home visiting via virtual means during the pandemic. We address these questions by examining program activity during the pandemic for Family Connects (FC), a MIECHV-eligible, brief postnatal nurse home visiting program.

Additionally, research is needed to analyze home visiting program activity among marginalized populations in the United States post-pandemic onset. Populations with existing vulnerabilities and inequitable access to resources and health care constitute a large proportion of home visiting programs' participants (Health Resources & Services Administration, 2016) and greatly benefit from home visiting services (Administration for Children and Families, 2020). Because marginalized communities are disproportionately affected by the pandemic (Kirby, 2020; Raifman & Raifman, 2020), home visiting programs are uniquely positioned to provide crucial support for vulnerable families in times of unprecedented hardship if equitable access to home visiting interventions and their key aspects is maintained. In this paper, we present FC program activity across racial and ethnic and social class lines with respect to evidencebased program components of nurse education provision and referral rates.

## Family Connects Model and Its Modifications During Covid-19

FC is a universal nurse home visiting program first implemented in Durham, North Carolina in 2009 and currently serving families in 23 communities across the United States (Family Connects International, 2019a, 2019b). Under the FC protocol, families residing in participating communities are invited to participate in the program shortly after birth. Enrolled families receive an integrated home visit (IHV) from a registered nurse about three weeks after the delivery. During the visit, family strengths and needs in four domains: health care, infant care, home safety, and parental well-being are assessed. When needs are identified, the nurse provides education and supportive guidance and-if need for longterm support is identified-connects the family with community resources. Nurses may also offer one to two followup home visits or phone calls for continued assessment and intervention, based on clinical judgment. Four weeks after the IHV, a FC team member follows up with a post-visit connection call to assess family satisfaction and confirm successful connections with community resources. Findings from two randomized controlled trials of FC have shown high participation rates, strong connections to community resources, high family satisfaction, and positive impact on reducing maternal mental health problems, infant emergency medical care costs, and Child Protective Services investigations (Alonso-Marsden et al., 2013; Dodge et al., 2013, 2014, 2019; Goodman et al., 2019, 2021).

FC mandated all sites transition to provide services to families via virtual means on March 18, 2020. Within the modified virtual protocol, FC sites offer two approaches to substitute the traditional in-home visit: (1) a modified IHV or (2) a structured supportive call. During the modified IHV, the nurse follows the standard IHV procedure, but the physical assessment of the caregiver and the infant have been replaced by detailed questions about caregiver's and infant's health. The nurse also provides guidance across the domains indicated in the standard IHV. The supportive call is a shorter intervention which simulates the IHV protocol. The caregiver is asked about feeding, mood, healthcare access, concerns, and need for follow-up. Brief education is delivered with specific attention to postpartum warning signs. The call ends with a summary of family strengths, a review of recommendations, and a plan for follow-up. Postpandemic onset, the follow-up protocol still includes one to two phone calls based on the nurse's judgement and a final connection call at four weeks post-visit.

## **Data and Methods**

Research protocols for this study were approved by the Duke University Health Systems IRB (Protocol #00105777) and Duke University Campus IRB (Protocol #2021-0197). The study received an IRB waiver of informed consent. Two data sources are used: the FC program activity data and the COVID-19 Modification Survey. We selected FC program activity data from March to November in 2019 and 2020 for five certified and mature sites (N=7791 scheduled visits). Mature sites are defined as sites with over 18 months of activity before January 2020 and demonstrated program fidelity. Our selection of mature FC sites for the program performance analysis assures that no changes or expansion of the program in the respective areas took place in 2019 and 2020, and activity should be comparable between 2019 and 2020 net of any exogenous shocks. Consequently, changes in program activity in 2020 can be interpreted as resulting from the disruptions due to the pandemic *and* transition to virtual means.

First, several program performance metrics are analyzed: number of scheduled visits, visit completion rates, time to completed visit, frequency of guidance provision (that is, the percentage of visits during which the nurse addressed families' needs through education and guidance), and community referral rates (that is, the percentage of visits during which the nurse offered a community referral to address needs in addition to providing education and guidance). Completion rates during the pandemic account for both the modified IHVs and the structured supportive calls.

Second, we report education/provision and community referral rates stratified by the caregiver's race and ethnicity and by the family's source of insurance. Race and ethnicity categories mirror the language used in the FC database: non-Hispanic white (thereafter white), non-Hispanic Black (thereafter Black), Hispanic, and non-Hispanic other. For source of insurance, we distinguish between families using private insurance and families using Medicaid or uninsured. Socio-demographic indicators are not available for families that did not complete the visit and we cannot comment on FC's population reach across specific subpopulations.

To analyze changes in program implementation during the COVID-19 pandemic, performance metrics are compared for two periods: March 1st–Nov. 30th, 2019 (prepandemic) and March 1st–Nov. 30th 2020 (post-pandemic onset). The cut-off in March reflects the shift towards state mandated closures (White House Communications, 2020) and the beginning of the FC transition to virtual means in 2020. As a sensitivity analysis, we introduced a cut-off in mid-March and obtained numerically and substantively



Fig. 1 Family Connects' program activity. Pre-pandemic data for March-Nov. 2019. Post-pandemic data for March-Nov. 2020. Metrics calculated using infant's date of birth to delineate analysis time period

similar results. November was the last month for which the implementation data were available at the time of submission.

Last, to examine families' perceptions of the FC virtual visits, we use the COVID-19 Modification Survey conducted between May and November 2020. The Modification Survey is a short, 6-item, questionnaire distributed via phone call or e-mail approximately four weeks after the completed visit. The survey was designed as anonymous and not linked to other information about the family or FC visit, in order to accelerate IRB protocol approval and facilitate survey distribution. Families are asked whether the amount of contact with FC was satisfactory and how FC affected their feelings of social isolation and concerns about in-person medical care seeking. Across the five selected sites, 330 families who received a FC visit completed the survey (response rate 54.8%). We present percentage distributions of answers for each relevant question item from the survey.

Performance metric

## Results

Changes in post-pandemic FC activity are presented in Fig. 1 and Table 1 below. Pre-pandemic, on average 438 visits were scheduled monthly in the five analyzed FC sites compared to 427 visits post-pandemic onset, indicating a 2.5% decline in scheduling activity. Completion rates averaged at 76.5% pre-pandemic and declined by 10.9% to 68.1% post-pandemic onset. In the first nine months post-pandemic onset, 78.9% of all virtual visits were completed as structured supportive calls.

The average age of the infant at the moment of the inperson visit pre-pandemic was 27.9 days. During the virtual delivery post-pandemic onset, the time to completed visit was shorter, with infants' mean age at visit equaling to 23.2 days. Modified IHVs were completed sooner post-birth (mean infant age of 22.6) than structured supportive calls (mean infant age of 25.7 days).

March-November

**Table 1** Changes in FamilyConnects' program activitypost-pandemic onset

	2020/March–November 2019
All families	
Average monthly number of scheduled visits	- 2.5%
Completion rates	- 10.9%
Education/guidance provision	- 0.3%
Community referral rates	- 12.3%
Mean time to visit completion	- 16.8%
Families of non-Hispanic Black caregivers	
Education/guidance provision	-0.2%
Community referral rates	- 15.3%
Families of Hispanic caregivers	
Education/guidance provision	- 2.4%
Community referral rates	- 39.5%
Families of non-Hispanic white caregivers	
Education/guidance provision	+0.4%
Community referral rates	+8.7%
Families of non-Hispanic caregivers of all other races	
Education/guidance provision	+0.1%
Community referral rates	+16.3%
Families using Medicaid or uninsured	
Education/guidance provision	-0.6%
Community referral rates	- 15.5%
Families using private health insurance	
Education/guidance provision	0.0%
Community referral rates	+3.5%

Family Connects' program implementation data, five mature and certified Family Connects sites. Scheduling activity and completion rates calculated using a sample of 7,791 scheduled visits and using infant's date of birth to delineate analysis time period. Education and referral activity metrics calculated using a sample of 5,112 completed visits (in-person IHVs and modified virtual IHVs) and using date of visit to define analysis time

**Fig. 2** Provision of education during FC visits. Pre-pandemic data for March-Nov. 2019. Post-pandemic data for March-Nov. 2020. Education provision calculated using a sample of 5112 completed visits (in-person IHVs and modified virtual IHVs) and using date of visit

Figure 2 represents frequency of education and guidance provision during the FC visit. Among families who completed traditional in-person IHVs before the pandemic, 96.4% of families received education and guidance during the in-person visit. In comparison 96.1% received these services during the modified virtual IHV post-pandemic onset. Further, across all four designated race/ethnicity subpopulations, the level of education provision was high prepandemic onset. On average, 98.3% of families with Black caregivers and 98.7% of families with Hispanic caregivers received guidance compared to 93.9% of families with white caregivers. After the pandemic onset, rates of education provision declined by 2.4% among Hispanic families but remained largely unchanged for all other groups (see also Table 1). Respectively 98.1% of families using Medicaid or uninsured and 94.4% of families using private insurance received education provision pre-pandemic. The post-pandemic onset values for education provision remained very similar, at 97.5% for families with Medicaid or uninsured and 94.4% for families with private insurance.

FC staff offered community referrals to 49.9% of visited families pre-pandemic onset and to 43.7% of

to define analysis time. Due to data limitation, no information about education and referral activity is available for post-pandemic structured supportive calls

families post-pandemic onset, a decline of 12.3% (Fig. 3) and Table 1). We observed variation in referral rates across families of different racial and ethnic background before the pandemic. About 61.6% of families with Black caregivers were offered a referral, compared to 70.0% of families with Hispanic caregivers and 36.0% of families with white caregivers. Among families of Black and Hispanic caregivers, referral rates declined post-pandemic onset, by 15.3% and 39.5% respectively. In contrast, more families of white caregivers received community referrals post-pandemic onset, an increase of 8.7%. Among families using Medicaid and uninsured families, 67.8% were offered a referral during the FC in-person visit pre-pandemic onset compared to 29.1% of families using private insurance. About 57.3% of Medicaid/ uninsured families were offered a referral once the pandemic started, a decline of 15.5%. At the same time, the proportion offered a referral among families with private insurance increased by 3.5%, to 30.1%.

Based on data from the COVID-19 Modification Survey (Fig. 4), 89.0% of families reported that the frequency of conversations with FC nurses was just right post-pandemic onset. Further, 65.1% of surveyed families reported that their





Fig. 3 Community referral rates during FC visits. Pre-pandemic data for March-Nov. 2019. Post-pandemic data for March-Nov. 2020. Referral rates calculated using a sample of 5112 completed visits (in-person IHVs and modified virtual IHVs) and using date of visit

to define analysis time. Due to data limitation, no information about education and referral activity is available for post-pandemic structured supportive calls

feelings of isolation during the pandemic decreased because of their contact with the FC nurse. In addition, 61.6% of families reported being worried about seeking in-person routine medical care for themselves or their newborn infant during the pandemic. Among these families, 61.7% reported that their concerns declined because of their conversations with the FC nurse.

## Discussion

Maternal, infant, and early childhood home visiting programs experienced a tremendous disruption in activities during the COVID-19 pandemic, a time when support for families with small children was extremely important. Data from Family Connects, a postpartum nurse home visiting intervention that transitioned to virtual delivery in March 2020, demonstrates that FC recruited comparable numbers of families into the program pre- versus post-pandemic onset. Completion rates declined slightly, by 10.9% postpandemic onset compared to pre-pandemic, but remained high at 68.1% of scheduled visits. Further, key components of the intervention, the provision of education and community referrals with respect to four key domains of family well-being (health care, infant care, home safety, and parental well-being), were maintained at high levels during virtual delivery post-pandemic onset. FC staff provided education to 96.1% of the caregivers (compared to 96.4% pre-pandemic) and offered referrals for community agencies to 43.7% of caregivers (compared to 49.9% pre-pandemic). Finally, we report that families were satisfied with the level of communication with FC staff and reported decreased feelings of isolation and reduced concerns about seeking in-person services after the FC visit.

Taken together, these findings demonstrate the feasibility of transitioning a home visiting program to virtual means, meriting continued implementation and state support for home visiting interventions. We thus recommend that during the ongoing public health emergency, home visiting programs continue implementation with virtual modifications and that existing funding sources continue or grow. In addition, we suggest that the virtual home visiting protocol established during the COVID-19 pandemic can serve as a blueprint for virtual outreach in future emergency situations. During emergencies such as hurricane or wild fire evacuations, virtual services might provide necessary consultations and community connections for families. Similarly, virtual services can lead to expansion of the home visiting reach



Fig.4 Families' self-reported reception of Family Connects' visits during the COVID-19 pandemic from the COVID-19 Modification Survey (N=330). \*Question asked only among respondents who

reported mild to severe worries about seeking routine medical care during COVID-19 for themselves or their baby

by offering virtual visits to families reluctant to welcome a nurse into their home or to families in remote areas. In summary, even though the COVID-19 imposed modifications to home visiting might be temporary, we expect the option of virtual delivery to remain within the portfolio of services offered by home visiting programs.

While we conclude that the transition to virtual means of home visiting delivery during COVID-19 was successful for FC, we recognize that in-person and in-home observations are evidence-based components of home visiting interventions, demonstrated to improve family well-being. The impact of virtual delivery (that is, whether this mode is associated with positive outcomes for families) is unknown. Consequently, a rigorous evaluation of the impact of virtual delivery on health outcomes, e.g., infant development, parental mental health or parent-infant relationship, is necessary. We also suggest future studies for FC about potential obstacles to virtual visit completion to remedy declining follow-through rates. Potential reasons for the small decline in program completion could include poor internet/cell data access, families' lack of time to complete visits, or staffing shortages with home visiting nurses delegated to COVID-19 relief efforts.

Additionally, while we document declines in community referral rates, we cannot explain why these declines are observed. On one side, a decline in referrals might indicate that, during the pandemic, FC nurses recognize the difficulty families have in attending community services (because the services have closed or the family is reluctant to reach out) and so the nurses are taking on the task of addressing the need during the visit rather than connecting the family to a community agency. On the other hand, a decline in provision of education and referrals might indicate that some needs are not being reported adequately by the parents or assessed fully by the nurses, whilst before, needs would have been observed directly by the nurse visiting the home and performing physical examinations. Future research should address these unanswered questions.

As home visiting programs continue services virtually and consider future changes to the intervention protocols, careful consideration should be devoted to issues of equal access to the interventions and their benefits for all families within participating communities. Findings in this paper show that while the community connections of affluent families and white families increased during the pandemic, these linkages weakened for low-income families and families of color. These noteworthy differences in program activity might reflect lack of access to services necessary for virtual home visiting, such as broadband internet, but also disproportionate impact of the pandemic on these communities. Thus, a priority of future research ought to be a critical examination of the reasons behind lower community referrals among minority and low-income families and an investigation of potential community alignment solutions to improve connectedness among historically marginalized families.

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Author Contributions All Authors participated in study conception and design. Dr. Rybińska carried out the program activity analyses and interpreted the data, drafted the initial manuscript, and reviewed and revised the manuscript. Drs. Best, Dodge, and Goodman participated in interpretation of data and reviewed and revised the manuscript. Ms. Weindling carried out analyses for the COVID19 Modification Survey and reviewed and revised the manuscript as submitted and agree to be accountable for all aspects of the work.

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#### Declarations

**Conflicts of interest** Drs. Best, Dodge, and Goodman acknowledge participation in Family Connects model dissemination. As the founder of Family Connects, Dr. Dodge provides periodic, in-kind consultation to sites implementing Family Connects. As director of research for Family Connects, Dr. Goodman supports local evaluation efforts at some dissemination sites. As medical director and national director of implementation for Family Connects, Dr. Best oversees site training and advises on local site clinical implementation work for dissemination sites. The other authors declare no conflict of interest.

**Ethics Approval** Research protocols for this study were approved by the Duke University Health System's IRB (Protocol #00105777) and the Duke University Campus IRB (Protocol #2021-0197).

Consent to Participate Not applicable.

Consent for Publication Not applicable.

Availability of Data and Material Data used in this research are deidentified participant data. Data are collected and managed by the Center for Child & Family Health, a community non-profit in Durham, NC, that serves as the national training and dissemination hub for Family Connects program. Data are not publicly available. **Code Availability** Code is not publicly available per study protocol guidelines.

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