



Increasing Capacity for Evaluation of Community-Based Organizations: Lessons from the Ohio Equity Institute

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ABSTRACT

Background: Community-based organizations (CBOs) play an important role delivering disease prevention and health promotion activities to address community health needs and improve the health of individuals living in their communities. While CBOs play this important role, evaluation of the services they deliver is hampered by limited infrastructure to systematically collect data from these organizations. To address this gap, we report on a case study of the development of the Ohio Equity Institute (OEI) Data Portal. The OEI is a statewide initiative that supports 65 CBOs across Ohio to deliver 3 evidence-based interventions (ie, CenteringPregnancy, Community Health Workers, and Home Visiting) to address infant mortality in underserved populations.

Methods: Employing principles of community-engaged stakeholder research and user-centered design, we conducted Plan-Do-Study-Act cycles, including semistructured interviews with 43 key informants, to improve the development, implementation, and use of the OEI Data Portal.

Results: This process identified both technical and implementation challenges, and offered opportunities to make improvements to the data collection system itself as well as to the integration of this system with CBO workflows. These improvements yielded significant gains in terms of the quantity and quality of data submission, ultimately contributing to ongoing outcome evaluation efforts.

Conclusion: Our findings provide important insight into the challenges experienced by CBOs when participating in a statewide CBO data evaluation infrastructure development and implementation. As Ohio and other states push to expand collaborations between CBOs and health care organizations, leaders should leverage existing data collection to facilitate a more comprehensive and effective process.

Keywords: Community-based organizations; Infant mortality; Disparities; Evaluation



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INTRODUCTION

Community-based organizations (CBOs) play an important role delivering disease prevention and health promotion activities to address community health needs.¹⁻³ Community-based organizations, which are defined as public or nonprofit organizations that represent their communities and provide health and educational services,³ facilitate state and national population health initiatives.⁴⁻⁶ Moreover, as of 2017, several state Medicaid programs incentivize health care systems to work with CBOs to address social determinants of health.⁷ The relationship between CBOs and health care providers is further encouraged by funding programs, such as the Robert Wood Johnson Foundation's Culture of Health.⁸

To participate in these efforts and support partnerships with health care organizations, it is important for CBOs to build evaluation capabilities both to guide their own efforts as well as to demonstrate to funders and other stakeholders that they are effectively implementing evidence-based interventions. Research suggests that building evaluation capacity, or the ability to perform evaluations, requires CBOs and their staff to buy into the importance of evaluation, commit sufficient resources to collect data, and collaborate with external researchers to develop sustainable evaluation methods. 10-13

Previous efforts to strengthen internal evaluation capacity have centered on providing CBOs with onsite technical assistance, developing evaluation skills through training programs, and offering interactive web-based systems to guide evaluation design. 14-16 These efforts emphasize building capacity at the organization level so that CBO managers and staff can take the necessary steps to evaluate the implementation efficacy of interventions, 16.17 which has been shown to positively affect implementation success.

Although previous research has highlighted the process of building internal evaluation capacity in CBOs, evidence is limited for building evaluation capacity across CBOs. This gap is particularly important because it is not uncommon for multiple CBOs to programmatically deliver similar components of evidence-based interventions as part of state or regional initiatives. ^{18,19} Within the similar interventions, CBOs may seek opportunities to coordinate their efforts to identify overlap of program activities, collect data, and conduct process and outcome evaluations. ^{13,17} More broadly, cross-CBO evaluation efforts can provide evidence of the effectiveness of state-level strategic efforts to use CBOs to support population and public health.

The economic investments being made by private and public funders warrant a deeper understanding of how CBOs participating in the same intervention can develop the capacity to evaluate intervention implementation efficacy and programmatic outcomes. To better understand the process of building evaluation capacity across multiple CBOs, we use a case study research design to explore and describe the challenges experienced by stakeholders participating in the Ohio Equity Institute's (OEI) building of a

statewide CBO evaluation infrastructure. In subsequent sections, we describe the OEI initiative and the process of building the evaluation infrastructure. The lessons learned from the experience of building the OEI data infrastructure will be helpful for other efforts in Ohio, as well as in those for other states aiming to build robust data collection systems to support CBOs delivering evidence-based interventions.

Background: The Ohio Equity Institute Initiative

In 2017, Ohio ranked 42nd in the nation for infant mortality, with an infant mortality rate of 7.3 infant deaths per 1000 births.²⁰ Moreover, the infant mortality rate in Ohio is almost 3 times as high among Black infants (ie, 14.3 per 1000 births for Black infants compared to 5.1 per 1000 births for White infants in 2019).²¹ Ohio Equity Institute was created to help address these racial disparities in birth outcomes.²²

Ohio Equity Institute is a collaboration between state agencies, including the Ohio Department of Health (ODH), the Ohio Department of Medicaid (ODM), and the Ohio Department of Higher Education (ODHE), working with local CBOs in the 9 Ohio counties with the largest disparities in infant mortality rates between Black and White infants. In 2018, OEI began to provide funding to 65 CBOs to deliver 3 evidence-based interventions focused on reducing the disparity in infant mortality: CenteringPregnancy group prenatal classes; Home Visiting; or Community Health Workers (CHWs).²³⁻³² The OEI also funded some additional evidence-based interventions including fatherhood programs, community events, a doula program, and a program connecting women to care that did not use CHWs. Services began being provided in August 2018, and by May 31, 2019, CBOs had reached 10 074 program participants. Taken together, these interventions were focused on improving the health of pregnant women, infants, and their families within the Ohio counties disproportionately impacted by the disparity in infant mortality.

As a component of OEI, ODM and ODHE cosponsored an evaluation grounded in the collection of participant-level data with the goal of determining the extent to which the selected interventions serve high-risk Medicaid enrolled pregnant women and assessing the effect of these interventions on health care utilization and birth outcomes. This evaluation was proposed in order to build the evidence for the specific impact of the 3 OEI interventions in Ohio, and to allow for the transition from a county-based approach to a participant-based approach to measuring impact.

METHODS

Building the OEI Data Portal

To support the OEI evaluation, a team of researchers and technical experts developed and deployed the OEI Data Portal, a data collection system that could be used across all CBOs and was coordinated by a central evaluation team. The OEI Data Portal was built on the Qualtrics web-based software platform³³ that was extended

through the development of a custom code base to expand the usability of the system in relation to the tracking and management of participant data by CBOs. The development of the OEI Data Portal proceeded using a 5-step approach: (1) development of a list of appropriate metrics to be collected by the OEI Data Portal based on a literature review and consultation with the OEI stakeholders (ie, ODM, ODH, ODHE); (2) hold initial interviews with CBOs to understand their existing data collection process and technical capacity; (3) draft specifications of the OEI Data Portal based on initial interviews with CBOs; (4) build the OEI Data Portal based on the draft specifications; and (5) provide training sessions to the CBOs on use of the OEI Data Portal.

The initial interviews with the CBOs (ie, Step 2) revealed a range of technological capabilities and resources that the CBOs use to collect data. For instance, some CBOs were collecting data using paper forms, some were using electronic spreadsheets, and others were using more advanced online data entry systems (ie, electronic health records) with data reporting capabilities. Given this variability, the development of the OEI Data Portal involved considering 3 collection modes as a way to provide each CBO the ability to select the data submission format most appropriate for their existing workflow: (1) an online data submission portal that facilitated electronic data submission directly from the CBOs to the OEI Data Portal; (2) paper forms along with mail, fax, scanning, and email options for use by the CBOs; and (3) data submission using common spreadsheet programs (ie, Microsoft Excel).

Five data collection forms were designed to collect data about program participants at 4 time points: Enrollment, Encounter, Group encounter (ie, for CenteringPregnancy programs), Birth, and Exit (see Appendix). The Enrollment form is intended to be administered at the first contact between the CBO and the program participant and collects contact information, social security and Medicaid identification number (ID), demographics, gestation at enrollment, prenatal care, housing, transportation, enrollment in social/government programs, and risk factors (ie, low food access, depression, stress, social support, smoking, alcohol use, and drug use). The Encounter forms are designed to be used at all subsequent interactions between the CBO and the participant (or group) and collect the date of the encounter, updates on contact information, and any referrals to additional services. The Birth form is fielded following delivery and reports the infant's name, gender, race, feeding method, and safe sleep practices. The Exit form is completed at the final interaction between the CBO and the program participant, and collects infant well-child care, immunizations, postpartum visits, emergency department visits, father involvement, child care, and updates on housing, employment status, and program enrollment. The OEI Data Portal went live in October 2018 and was designed for CBOs to report data monthly for program participants. As of March 2021, the OEI Data Portal has data on over 120 000 participant contacts with the CBOs.

Plan-Do-Study-Act Cycles

Following the roll out of the OEI Data Portal, the OEI evaluation team engaged in a series of 3 Plan-Do-Study-Act (PDSA) cycles in October 2018 (PDSA Cycle 1), April 2019 (PDSA Cycle 2), and June 2019 (PDSA Cycle 3).³⁴ The goal of the PDSA cycles was to identify opportunities to continuously improve the efficiency and quality of data collection and reporting. This process embraces aspects of user-centered design in a codevelopment model where real-time feedback is solicited from end users and communicated to developers of a system.³⁵ Below we detail the steps of this evaluation process and then present the key findings.

Data Collection

All CBOs funded as part of OEI were included in our study sample. After the roll out of the OEI Data Portal, each CBO was invited to a series of 3 key informant semistructured one-on-one and group interviews across the 3-cycle PDSA process to provide information on system optimization. Under the conditions of their funding arrangements, each CBO supplied an administrative contact to the OEI evaluation team. We worked with this administrative contact to identify key informants. Key informants included project managers, program directors, and data administrators.

The goal of PDSA Cycle 1 was to conduct interviews with programs near the beginning of the data collection effort with particular attention to both how they were collecting data and how they were submitting data. This approach served as a quality check for the initial implementation of the system and strengthened engagement between the evaluation team and CBOs. The goal of PDSA Cycles 2 and 3 was to conduct phone interviews with CBO project and data managers to understand the remaining technical issues and identify best practices related to data collection and submission and to interview individuals from programs that were not yet collecting and reporting data at the time PDSA Cycle 1 took place. In PDSA Cycle 3, programs could opt out of participating if they had completed past PDSA calls and did not have any additional input.

All interviews used a semistructured approach that consisted of a series of open-ended questions. Questions were asked about how the organization collects data (eg, "How do you currently collect data about participants in your program?"; "ODM will require agencies receiving funding to collect and report evaluation data about participants to our evaluation team. What would your preferred mode be for sending participant data?"), challenges with data collection (eg, "What are the biggest barriers you face in data collection?"), recommendations to improve the data collection process (eg, "What areas/outcomes do you wish you knew more about or could measure?"), and expectations about program evaluation (eg, "What are you currently doing to evaluate the impact of your program?; What areas/outcomes do you wish you knew more about or could measure?"). Interviews lasted 15 to 45 minutes. This study was approved by The Ohio State University

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institutional review board, and informed consent was obtained for all individuals included in the study.

Data Analysis

All interviews were recorded but not transcribed, and detailed notes were taken of each interviewee's responses using a memoing approach.³⁶ The research team then met weekly to share notes and discuss common themes that emerged in the interviews throughout each PDSA cycle. After development of an initial codebook, the matrix method was applied to categorize the memos and validate our thematic analysis: 37-39 the interviewers independently organized notes for each theme for each interviewee allowing for data condensation and synthesis across cases. This process is commonly used for rapid-cycle identification of actionable insight, rather than exploration of theoretically deep concepts. 40,41 This approach was appropriate in this instance to identify common challenges that could be communicated to the developers of the OEI Data Portal to improve the quality of data collection and reporting in a timely manner. Thus, our findings below report on the common or recurring themes from the interviews that were identified in each PDSA cycle, including how the developers resolved each issue.

RESULTS

A summary of the number of interviews conducted during each PDSA cycle and the number of CBOs represented is provided in Table 1. Some interviewees represented data coordination and submission for multiple CBOs. Of the 65 CBOs, those that did not participate in interviews fell into 3 categories: CBOs using a separate system, the Ohio Comprehensive Home Visiting Integrated Data System (OCHIDS), not the OEI Data Portal, for reporting (n=12); CBOs with business associate agreement/contractual issues preventing data submission (n=13); and CBOs not collecting or submitting data (n=3).

Challenges in Data Collection

Across PDSA cycles, we identified common challenges across the CBOs using the OEI Data Portal and documented the response by the OEI evaluation team to address each specific issue. Challenges were broadly categorized into technical issues (Table 2) and implementation issues (Table 3). We distinguished between these 2 types of issues: those that required changes to the OEI Data Portal itself; and those that required changes to the data submission process, the data collection forms, or the reporting requirements.

Technical Challenges

The technical challenges often pertained to issues related to the usability of the OEI Data Portal system's data entry component. For instance, CBOs noted that they lacked the ability to update patient contact information, or that they were unable to track their own data entry. These types of issues were addressed by the OEI evaluation team by adding functionality to the OEI Data Portal, as well as making metadata (ie, the date forms were submitted) more accessible to users. Other issues related to the individual's experience of using the OEI Data Portal, such as the speed at which the system operates. These types of issues were resolved by providing the CBOs with additional instruction on use of the OEI Data Portal, such as the internet setting specifications (i.e., preferred browser) that optimize the use of the system.

Implementation Challenges

Implementation challenges were more prevalent in PDSA Cycle 1 than in PDSA Cycles 2 and 3. Broadly, implementation issues pertained to submitting data in formats different from those specified in the OEI data collection forms, not understanding how to answer certain questions, and CBOs not collecting specific variables. Most issues were resolved by changes to the OEI data collection forms or by clarifying reporting needs.

However, a subset of implementation issues was not related to the data portal itself but stemmed from the workflow of the CBOs. For instance, CBOs noted that health literacy issues may be limiting participant responses to questions. Some CBOs described being able to walk through forms with program participants, but not all CBOs had the resources to provide this targeted attention.

Another major issue pertained to the sensitivity of questions. For example, 1 question on the Enrollment form requested the demographic information for the biological father and some participants chose not to provide this information. Similarly, some questions, such as drug use, were viewed as potentially too sensitive. This issue was particularly relevant for the CenteringPregnancy programs where participants might be filling out forms in the presence of individuals seen as authority figures (ie, group facilitators and a doctor) as well as other group members. One approach to addressing these issues was to ask for this information at the second or third encounter with a client, as this would allow an opportunity to develop trust and comfort with the CBO staff.

Participants were similarly concerned about the privacy of the identifiable information that they report (i.e., Medicaid IDs, social security numbers, birthdates, addresses). This issue was particularly prominent for CBOs that served predominantly immigrant populations who may have concerns related to citizenship. The CBOs perceived that these participants had a general distrust for the government and may not necessarily distinguish between ODM and other federal agencies. To address this issue, one CBO requested that a disclaimer be added to the data collection form stating that the information would only be used for quality improvement purposes.

Quality of OEI Data Portal

By PDSA Cycle 3, most interviewees remarked on their satisfaction with the usability and experience of the OEI Data Portal. We conducted data quality checks throughout the PDSA process to identify the percent of missing or erroneous data from each CBO and to track the number of CBOs reporting data. Initially, 52% of data



Table 1. Categories Summary of Plan-Do-Study-Act (PDSA) Interviews and Representation of Community-Based Organizations (CBOs)

PDSA Cycle	Number of interviews	Number of CBOs represented
PDSA Cycle 1	12	20
PDSA Cycle 2	18	38
PDSA Cycle 3	13	31

Table 2. Technical Challenges and Solutions with Developing the OEI Data Portal

Challenge	Description	Resolution
PDSA Cycle 1 Challenges		
Inability to change participant contact information	CBOs were unable to make changes to contact information for participants once they were added to the portal.	A link was added to each participant's name that allows updates to contact information.
Inability to upload multiple data forms	The ability to place multiple data forms in the submission field, instead of placing them 1 at a time, was requested.	Three fields that can each accept 1 file were added, as Qualtrics does not allow fields that accept multiple simultaneous uploads.
Lag time in the data portal	Forms that were added or completed would not update immediately in the OEI Data Portal.	CBOs were provided instructions about the ideal internet settings to use Qualtrics effectively. The programs notified us that speed improved.
Inconsistent question order in different submission formats	The Excel spreadsheet questions did not follow the same order as the surveys on Qualtrics.	The Excel spreadsheet was modified so questions were in a consistent order with the Qualtrics survey.
Usability of encounter data collection form	The Encounter form was perceived as too intimidating and was not optimized for use by participants themselves.	A new Encounter form template was created with the same questions but a new format, designed to look like a sign-in sheet, and with questions worded to request information directly from the participant rather than from CBO staff.
PDSA Cycle 2 Challenges		
Unable to track data entry	CBOs could not see when they last entered data.	The date a form was submitted to the OEI Data Portal was added in place of the word "Complete" for the Enrollment, Birth, and Encounter forms.
Deletion of historical records from view	The OEI Data Portal deletes a participant's name when they exit the program. The CBOs did not like the inability to access forms for people who have exited, foreseeing a potential need to update information for participants.	Participants that have exited the program now appear in a separate table, and their data can be edited.
PDSA Cycle 3 Challenges		
Unable to correct data entry errors	Cannot unselect answer response if wrong choice is chosen	Surveys were altered to allow response changes throughout.
Confusing visual display	Text boxes do not align with data entry boxes.	Visual alterations were completed to better align data entry boxes on forms.
No process for exiting some patients	No way to complete exit form for patients that do not have postpartum visit	Enter known data and we can match outcome data using other data sources
Missing answer choices for gender	No nonbinary options (eg, trans) on forms, nor a 'Not Applicable' option for male participants	When gender is unknown, the question can be skipped. CBO staff encouraged to ask the question to the participant and write down the gender the participant calls themselves.
Data entry limitations	Limit on amount of group encounters that can be submitted requires using multiple sheets	More data entry lines for participants were added to Group encounter form in portal.

 $Notes: OEI = Ohio \ Equity \ Institute; \ PDSA = Plan-Do-Study-Act; \ CBO = community-based \ organization; \ CHW = community \ health \ worker.$



Table 3. Implementation Challenges and Solutions with Developing the OEI Data Portal

Challenge	Description	Resolution
PDSA Cycle 1 Challenges		
Non-applicable questions	Concerns were raised about the fact that certain questions, such as home safety issues, do not always apply, so the question is left incomplete.	Added "none of the above apply" response option.
Missing data	In some cases, participants were not enrolled in Medicaid and therefore did not have a Medicaid identification number.	Instruction was included to leave the Medicaid identification field blank, rather than entering insurance identifiers for other insurance types.
Structural issues	A few programs – specifically, those that have CHWs completing care coordination and service connection tasks – provide services to people who are not either pregnant or recent parents.	A question was added to an updated Encounter form assessing whether the participant was pregnant or was a parent of an infant.
Incomplete legacy data collection systems	Many CBOs use the Care Coordination System (CCS) ^a to collect data, export this data to a spreadsheet, and submit it.	The CBOs were asked to export all CCS variables instead of only a subset so the maximum amount of data can be used for the OEI evaluation.
PDSA Cycle 2 Challenges		
Data collection inconsistent with workflow	Some programs, especially CHW programs, only see clients once and do not collect detailed demographic data, as their encounters are designed to quickly connect people to community resources.	A modified Encounter form with more data fields was provided to collect limited demographic information (eg, race, employment, and marital status) better suited to brief interactions.
Health literacy	Participant health literacy may limit ability to understand and answer questions on intake forms.	The CBOs were asked to assist participants in answering questions on forms and explain questions that may not be understood.
PDSA Cycle 3 Challenges		
Reluctance to provide answer to sensitive question	Participant hesitant to answer questions due to concerns about loss of benefits and services.	The CBOs were asked to collect this information on second or third visit to allow for greater trust, comfort and familiarity with CBO.
Concerns about use of the data	The CBOs expressed concern that some population subgroups may be concerned that the data will be reported to the federal government and therefore may be unwilling to give information.	Added disclaimer to data collection forms that the data is only for quality improvement purposes and will not be reported to the federal government.
Misalignment of data collection mode with workflow	CHWs and home visitors that are in the community cannot submit data during patient interactions given current technological approaches to data submission.	The OEI evaluation team has begun developing a mobile application to submit data.

Notes: The Care Coordination System (CCS) is a legacy data collection system used for reporting data from CHW programs to Ohio Department of Medicaid. OEI = Ohio Equity Institute; PDSA = Plan-Do-Study-Act; CBO = community-based organization; CHW = community health worker.

fields were complete and 33 CBOs reported data, but by the end of PDSA Cycle 3 this metric had improved to 55% of data fields complete for 58 CBOs. Thus, while the percent of complete data increased only slightly, the number of CBOs capable of reporting data increased substantially.

DISCUSSION

Community-based organizations are increasingly important providers of health education and can expand the capacity of health care organizations and government agencies to address social determinants of health. These agencies provide a wealth of services to communities, yet, given their funding structures, they frequently lack the resources to develop robust data collection and evaluation infrastructures. To this end, we developed the OEI

Data Portal to evaluate 3 evidence-based interventions aimed at reducing disparities in infant mortality across the state of Ohio. Our PDSA process was able to identify, document, and redress several technical and implementation challenges in order to support data reporting. This case study provides insight for other efforts that seek to capture data across CBOs providing similar interventions for evaluation purposes.

Importance of Building Relationships

Our PDSA cycles highlight the need for ongoing relationships with CBOs in order to understand both their technical capacities and workflows in order to ensure high-quality data collection. For instance, many of the initial technical challenges that were identified related to a lack of familiarity of the OEI evaluation team with

the specific needs and experiences of the CBOs, and they were resolved through engagement between the CBOs and the evaluation team. Similarly, the implementation challenges often resulted from a mismatch between the data collection forms and data entry process with the actual workflows of the CBOs. The ongoing communication and relationship between the OEI evaluation team and the CBOs facilitated by the PDSA process helped to identify and resolve these issues.

Engaging with the CBOs further required responding to their data submission preferences. A strength of the OEI Data Portal is its flexibility in this regard, as we offered a number of technologies to collect data: direct data entry, paper forms and fax, and data uploads of extracted files from other systems. While the preference for the majority of CBOs was direct data entry via the OEI Data Portal, CBOs affiliated with health care organizations preferred to deliver data via the upload of a data file.

These engagement efforts resolved immediate challenges CBOs reported with providing data to a common system, but also resulted in more complete and accurate data collection. The experience of having their data collection and entry needs met, and seeing more complete and accurate data through the development of the data collection system, can increase CBOs' trust in the evaluation team and process, which is critical in successful community-based efforts.^{42,43}

Augmenting CBO-Provided Data

While CBO-provided data allowed us to understand participation in the 3 evidence-based interventions examined, both ODM and the CBOs seek to evaluate the impact of participation in the OEI interventions on infant mortality and low birth weight. This analysis requires matching information about patient use of the OEI interventions from the OEI Data Portal to information about birth outcomes and deaths from the state vital statistics records. Adding complexity to this issue is that some CBOs, such as the home visiting programs, submit data to OCHIDS, a separate and distinct system from the OEI Data Portal created by ODH to collect data from selected home visiting programs. The need to match data from the OEI Data Portal with other sources underscores the necessity of building a reliable data collection system. As programs such as Partnership for Healthy Outcomes⁷ and the Robert Wood Johnson Foundation's Culture of Health8 expand collaborations between CBOs and health care organizations, leveraging existing data collection and stakeholder-informed data collection such as our OEI Data Portal can facilitate a more comprehensive evaluation process.

Moving forward, state sponsors of CBOs may consider efforts to integrate data collection systems across multiple projects. Many existing state-based efforts to coordinate the exchange of health information across the state rely on community health information exchanges (HIEs) or regional health information organizations. However, HIEs are typically designed to facilitate exchange of health information between health care providers and are not

optimized to the needs of CBOs. Further, HIEs are rarely oriented toward evaluation.⁴⁴ Nonetheless, leveraging the existing HIE infrastructure may offer states a potential shortcut to creating repositories of CBO data. The lessons we report in this case study of the OEI Data Portal could help in any efforts to adapt HIE platforms to the needs of CBOs.

Limitations

This study is subject to some important limitations. First, all the CBOs funded by OEI were selected in part due to their willingness to submit required data, potentially resulting in a sample of CBOs more prone toward accommodating reporting and evaluation requests. Second, the OEI experience may be specific to the state of Ohio, and, as a result, our findings may not be generalizable in different states with different regulatory and funding structures. Building a robust evaluation infrastructure and capturing high-quality data is a necessary first step prior to conducting any outcome evaluation. Future work will focus on evaluating the impact of the interventions on the specific outcomes of interest—infant mortality and low birth weight.

PUBLIC HEALTH IMPLICATIONS

Infant mortality is a complex problem impacting communities in Ohio, and multiple programs have been developed to reduce the risk of poor infant and maternal outcomes. Due to varying program designs, levels of data collection, and small program sizes, it is hard to assess the impact of individual programs on outcomes. The OEI can serve as a model for data collection from many similar CBO delivered programs across the state to enable evaluation of these efforts. Individual CBOs experienced technical and implementation challenges when starting to use the new data collection system. However, building relationships between CBOs and the evaluation team and providing training resulted in improved data quality and increased the number of organizations reporting data over the first year of data collection system implementation.

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REFERENCES

- Barton-Villagrana H, Bedney BJ, Miller RL. Peer relationships among community-based organizations (CBO) providing HIV prevention services. *J Prim Prev.* 2002;23(2):215-234. https://doi.org/10.1023/A:1019920400029
- Blas E, Gilson L, Kelly MP, et al. Addressing social determinants of health inequities: what can the state and civil society do? *Lancet*. 2008;372(9650):1684-1689.
 - https://doi.org/10.1016/S0140-6736(08)61693-1
- Wilson MG, Lavis JN, Guta A. Community-based organizations in the health sector: a scoping review. *Health Res Policy Syst.* 2012;10:36. https://doi.org/10.1186/1478-4505-10-36

ojph.org

Wallerstein N, Duran B. Community-based participatory research contributions to intervention research: the intersection of science and practice to improve health equity. *Am J Public Health*. 2010;100 Suppl 1:S40-46.

https://doi.org/10.2105/AJPH.2009.184036

- Akintobi TH, Yancey EM, Daniels P, Mayberry RM, Jacobs D, Berry J.
 Using evaluability assessment and evaluation capacity-building to
 strengthen community-based prevention initiatives. *J Health Care Poor Underserved*. 2012;23(2 Suppl):33-48.
 https://doi.org/10.1353/hpu.2012.0077
- Cacari-Stone L, Wallerstein N, Garcia AP, Minkler M. The promise of community-based participatory research for health equity: a conceptual model for bridging evidence with policy. *Am J Public Health*. 2014;104(9):1615-1623.

https://doi.org/10.2105/AJPH.2014.301961

- Partnership for Healthy Outcomes. Using Medicaid Levers To Support Health Care Partnerships With Community-Based Organizations. 2017. Accessed March 15, 2021.
 - https://www.chcs.org/media/CBO-HCO-Partnership-Medicaid-Fact-Sheet_102417_chcs.pdf
- Robert Wood Johnson Foundation. Building a Culture of Health. 2021.
 Accessed March 16, 2021.
 - https://www.rwjf.org/en/how-we-work/building-a-culture-of-health.html
- 9. Taylor LA, Byhoff E. Money moves the mare: the response of community-based organizations to health care's embrace of social determinants. *Milbank Q.* 2021; 99(1): 71-208.
 - https://doi.org/10.1111/1468-0009.12491
- Adebayo OW, Salerno JP, Francillon V, Williams JR. A systematic review of components of community-based organisation engagement. *Health* Soc Care Community. 2018;26(4):e474-e484.

https://doi.org/10.1111/hsc.12533

- Likumahuwa S, Song H, Singal R, et al. Building research infrastructure in community health centers: a community health applied research network (CHARN) report. *J Am Board Fam Med.* 2013;26(5):579-587. https://doi.org/10.3122/jabfm.2013.05.130025
- Mayberry RM, Daniels P, Akintobi TH, Yancey EM, Berry J, Clark N. Community-based organizations' capacity to plan, implement, and evaluate success. *J Community Health*. 2008;33(5):285-292. https://doi.org/10.1007/s10900-008-9102-z
- Kegeles SM, Rebchook GM. Challenges and facilitators to building program evaluation capacity among community-based organizations. AIDS Educ Prev. 2005;17(4):284-299.
 - https://doi.org/10.1521/aeap.2005.17.4.284
- Norton S, Milat A, Edwards B, Giffin M. Narrative review of strategies by organizations for building evaluation capacity. *Eval Program Plann*. 2016;58:1-19.
 - https://doi.org/10.1016/j.evalprogplan.2016.04.004
- Preskill H, Boyle S. A multidisciplinary model of evaluation capacity building. Am Jl Eval. 2008;29(4):443-459. https://doi.org/10.1177/1098214008324182
- 16. Stevenson JF, Florin P, Mills DS, Andrade M. Building evaluation capacity in human service organizations: a case study. *Eval Program Plann.* 2002;25(3):233-243.
 - https://doi.org/10.1016/S0149-7189(02)00018-6

- 17. Wandersman A, Chien VH, Katz J. Toward an evidence-based system for innovation support for implementing innovations with quality: tools, training, technical assistance, and quality assurance/quality improvement. *Am J Community Psychol.* 2012;50(3-4):445-459. https://doi.org/10.1007/s10464-012-9509-7
- Burd C, Gruss S, Albright A, Zina A, Schumacher P, Alley D. Translating knowledge into action to prevent type 2 diabetes: medicare expansion of the national diabetes prevention program lifestyle intervention. *Milbank Q.* 2020;98(1):172-196. https://doi.org/10.1111/1468-0009.12443
- Willging CE, Gunderson L, Green AE, et al. Perspectives from community-based organizational managers on implementing and sustaining evidence-based interventions in child welfare. *Hum Serv Organ Manag Leadersh Gov.* 2018;42(4):359-379. https://doi.org/10.1080/23303131.2018.1495673
- Rankings AsH. National Infant Mortality. 2020. Accessed March 16, 2021.
 https://www.americashealthrankings.org/explore/health-of-womenand-children/measure/IMR_MCH
- 21. Ohio Department of Health. 2019 Infant Mortality Report. 2019. Accessed March 16, 2021. https://odh.ohio.gov/wps/portal/gov/odh/know-our-programs/infant-and-fetal-mortality/reports/2019-ohio-infant-mortality-report
- 22. Ohio Department of Health. Ohio Equity Institute. 2020. Accessed March 16, 2021. https://odh.ohio.gov/wps/portal/gov/odh/know-our-programs/maternal-infant-wellness/oei
- 23. Aboubaker S, Qazi S, Wolfheim C, Oyegoke A, Bahl R. Community health workers: a crucial role in newborn health care and survival. *J Glob Health*. 2014;4(2):020302. https://doi.org/10.7189/jogh.04.020302
- 24. Becker J, Kovach AC, Gronseth DL. Individual empowerment: how
- Becker J, Kovach AC, Gronseth DL. Individual empowerment: how community health workers operationalize self-determination, selfsufficiency, and decision-making abilities of low-income mothers. *J Community Psychol.* 2004;32(3):327-342. https://doi.org/10.1002/jcop.20000
- 25. Hollowell J, Oakley L, Kurinczuk JJ, Brocklehurst P, Gray R. The effectiveness of antenatal care programmes to reduce infant mortality and preterm birth in socially disadvantaged and vulnerable women in high-income countries: a systematic review. BMC Pregnancy Childbirth. 2011;11:13.

https://doi.org/10.1186/1471-2393-11-13

- 26. Issel LM, Forrestal SG, Slaughter J, Wiencrot A, Handler A. A review of prenatal home-visiting effectiveness for improving birth outcomes. *J Obstet Gynecol Neonatal Nurs.* 2011;40(2):157-165. https://doi.org/10.1111/j.1552-6909.2011.01219.x
- 27. Jack S, DiCenso A, Lohfeld L. Opening Doors: Factors influencing the establishment of a working relationship between paraprofessional home visitors and at-risk families. *CJNR*. 2002;34(4):59-69.
- 28. Olds DL, Kitzman H. Can home visitation improve the health of women and children at environmental risk. *Pediatrics*. 1990;86(1):108-116.
- Peacock S, Konrad S, Watson E, Nickel D, Muhajarine N. Effectiveness of home visiting programs on child outcomes: a systematic review. *BMC Public Health*. 2013;13:17.

https://doi.org/10.1186/1471-2458-13-17

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- Swoboda CM, Benedict JA, Hade E, McAlearney AS, Huerta TR. Effectiveness of an infant mortality prevention home-visiting program on high-risk births in Ohio. *Public Health Nurs*. 2018;35(6):551-557. https://doi.org/10.1111/phn.12544
- Swoboda CM, McAlearney AS, Huerta TR. Risk factors among participants in a community health worker led infant mortality prevention home-visiting program. *Journal of Community and Preventive Medicine*. 2018;1(1):1-7.
- Thielen K. Exploring the group prenatal care model: a critical review of the literature. *J Perinat Educ.* 2012;21(4):209-218. https://doi.org/10.1891/1058-1243.21.4.209
- 33. Qualtrics, [computer program]. Provo, UT.2020.
- Institute for Healthcare Improvement. How to Improve. 2021. Accessed March 19, 2021.
 - http://www.ihi.org/resources/Pages/HowtoImprove/default.aspx
- Abras C, Maloney-Krichmar D, Preece J. User-centered design. Bainbridge, W Encyclopedia of Human-Computer Interaction Thousand Oaks: Sage Publications. 2004;37(4):445-456.
- Birks M, Chapman Y, Francis K. Memoing in qualitative research: probing data and processes. *J Res Nurs*. 2008;13(1):68-75. https://doi.org/10.1177/1744987107081254
- 37. Averill JB. Matrix analysis as a complementary analytic strategy in qualitative inquiry. *Qual Health Res.* 2002;12(6):855-866. https://doi.org/10.1177/104973230201200611
- 38. Groenland E. Employing the matrix method as a tool for the analysis of qualitative research data in the business domain. *Int J Bus Glob*. 2018;21(1):119-134. https://doi.org/10.2139/ssrn.2495330
- Lewinski AA, Crowley MJ, Miller C, et al. Applied rapid qualitative analysis to develop a contextually appropriate intervention and increase the likelihood of uptake. *Med Care*. 2021;59:S242-S251. https://doi.org/10.1097/MLR.0000000000001553
- 40. Gale RC, Wu J, Erhardt T, et al. Comparison of rapid vs in-depth qualitative analytic methods from a process evaluation of academic detailing in the veterans health administration. *Implement Sci.* 2019;14(1):1-12. https://doi.org/10.1186/s13012-019-0853-y
- 41. Taylor B, Henshall C, Kenyon S, Litchfield I, Greenfield S. Can rapid approaches to qualitative analysis deliver timely, valid findings to clinical leaders? a mixed methods study comparing rapid and thematic analysis. *BMJ open.* 2018;8(10):e019993.
 - https://doi.org/10.1136/bmjopen-2017-019993
- Stout SS, Simpson LA, Singh P. Trust between health care and community organizations. *JAMA*. 2019;322(2):109-110. https://doi.org/10.1001/jama.2019.1211
- Amarasingham R, Xie B, Karam A, Nguyen N, Kapoor B. Using community partnerships to integrate health and social services for high-need, high-cost patients. 2018. Accessed March 16, 2021. https://www.commonwealthfund.org/publications/issue
 - briefs/2018/jan/using-community-partnerships-integrate-health-and-social
- 44. Yeager VA, Vest JR, Walker D, Diana ML, Menachemi N. Challenges to conducting health information exchange research and evaluation: reflections and recommendations for examining the value of HIE. *EGEMS (Wash DC)*. 2017;5(1):15.

https://doi.org/10.5334/egems.217

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APPENDIX. Data Collection Forms



Department of Medicaid





Enrollment form

Complete this form when a participant enrolls in the program.

Please write clearly in blue or black ink, place only one character in each box, and use all uppercase letters; this form will be read by a computer.

On what date did the participant enroll in the program?	What is the participant's birth date?
Month Day Year	Month Day Year
Participant's identification information: First name Last	t name
Social Security number Medicaid ID num	nber Gender
	Female Male
Street address	
City ZIP code	e Phone number
How did the participant learn about this program?	Participant's employment status (please check all that apply):
Friend or family member	☐ Employed full time
☐ Medical provider	☐ Employed part time
Other prenatal or infant care program	Unemployed, receiving assistance
☐ Social/governmental program	Unemployed, not receiving assistance
Advertisements in the community	Enrolled in school
Other (please specify)	Disabled

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City

EAK	CH ARTICLE	Ohio	Journal of Public Health, January 2022, Vol. 4, Issue 2 ISSN: 2578-61
Enro	ollment		Page 2 of 4
	Participant's last name and birth date		Month Day Year
67	Participant's marital status: Married Widowed Divorced Separated Single/never married Not married but living with partner Current relationship between participant and other biological parent: Married Widowed	10	Participant's race/ethnicity (please check all that apply): White Black or African American Hispanic or Latino Asian Native Hawaiian or Pacific Islander American Indian or Alaska Native Other (please specify)
8	□ Divorced□ Separated□ Never marriedLiving status between participant	11)	Other biological parent's race/ethnicity (please check all that apply): White Black or African American Hispanic or Latino
	and other biological parent: Living together Not living together If you marked living together, you may skip the address fields in the section at the bottom of this page. If not, complete these fields.		Asian Native Hawaiian or Pacific Islander American Indian or Alaska Native Other (please specify)
9	Other biological parent's birth date: Month Day Year		
12	Other biological parent's identification informa	tion: Last nam	e
	Street address		

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ZIP code

Phone number

Enro	Ilment Participant's last name and birth date			Month Day Year Page 3 of 4
,				
			_	
13	How many total adults live in the same household as the participant (including the participant)?	18)	of th	he participant currently enrolled in any he following public assistance programs? ease check all that apply.)
(14)	How many total children live in the			Women, Infants and Children (WIC)
	same household as the participant?			Supplemental Nutrition Assistance Program (SNAP/food stamps)
(15)	What kind of housing does the participant have?			Temporary Assistance for Needy Families (TANF)
	Live in house/apartment owned by participant			Disability or unemployment
	Live in house/apartment owned by family/friends			Other prenatal/infant health program
	Live in rented house/apartment			Housing assistance program
	Live in shelter or group home			Child care program
				Food assistance program
	Public housing Homeless			Exercise/health promotion program
				Educational/employment assistance program
	Other (please specify)			Mental health/substance abuse program
				Don't know
				Other (please specify)
16	Please check any home safety issues the participant is experiencing.		L	
	No working smoke detectors			
	Firearms or weapons in home	19		he participant financially stable (able to pay
	Smell of gas/mildew/mold	T	tnei	ir bills without any monetary aid or help)?
	Pests suspected/present			Yes No
	Smoking in house	7	Doe	es the participant have access to adequate
	Windows/doors do not lock appropriately	20)	food	
	Garbage/clutter/unclean environment			Yes
	Drugs/chemicals/cleaning supplies within reach			
	Participant's primary method of transportation:	21)		es the participant have current depression or
(17)			a hi	istory of depression diagnosis or treatment?
	Own car			Yes No
	Bus		المال	ha maat manth, did the martisinant faal thay
	Taxi (2	22)		he past month, did the participant feel they ald not control important things in their life?
	Walk			
	Friend's/family car			Yes No
	Other (please specify)	23)	ls th	here at least one person the participant
			can	discuss their thoughts and feelings with?
				Yes No
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Enro	Ilment Participant's last name and birth date		Month Day Year Page 4 of 4
24	Does the participant or anyone in their household smoke? (If no, skip to #27.)	27	In the past month, has the participant drank any alcohol?
	The participant smokes but nobody else in the household smokes		☐ Yes ☐ No
	At least one member of the household smokes but the participant does not	28	In the past six months, has the participant used any illegal substances? (If no, skip to #30.)
	Both the participant and at least one other person in the household smoke		☐ Yes ☐ No
	No one in the household smokes	29	If yes to #28, how frequently does the participant use controlled substances?
25	If the participant smokes, number lf others in the household smoke,		More than once per day
	of cigarettes number of cigarettes		Once per day
	smoked per day: smoked per day:		A few times per week or less
	Less than one per day		A few times per month or less
	□ 1-5 □ 1-5		Only on occasion; less than once per month
	6-10	(30)	Do any of the participant's friends or
	□ 11-15 □ 11-15		family members have problems with alcohol or other drug use?
	☐ 16-20 ☐ 16-20		
	More than 20		☐ Yes ☐ No
\vdash			
	The final six questions on this form do no	t app	ly to participants in a fatherhood program.
31)	Participant's weeks of gestation at enrollment in the program:	34	Has the participant received treatment with progesterone during this pregnancy?
	Infant has already been born		☐ Yes ☐ No
32	How many prenatal care visits has the participant had prior to	35	Does the participant take folic acid/vitamins?
	enrollment?		☐ Yes ☐ No
33	Did the participant have any prenatal visits in her first trimester (weeks 1-12)?	36	Is transportation a barrier to the participant attending prenatal care appointments?
	☐ Yes ☐ No		☐ Yes ☐ No
	Form administrator's first name	orm adr	ministrator's last name
	Organization/program name		Phone number for questions
	NA floor accomplete this for the first of the control of the contr	0.440	
			3 or scanned and emailed to oeieval@osumc.edu. 6-8897 or email oeieval@osumc.edu.





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Encounter form

Complete this form when an encounter with a participant takes place. Please write clearly in blue or black ink, place only one character in each box, and use all uppercase letters; this form will be read by a computer.

	what date did this encounter occur? Onth Day Year Month Day Year Mo
Firs	ticipant's identification information: name Last name Gender Female Male ZIP code Phone number
W	at is the next planned contact date? If yes to #5, please list any additional program or services the participant was referred to. If yes to #5, please list any additional or services the participant was referred to. If yes to #5, please list any additional or services the participant was referred to. If yes to #5, please list any additional or services the participant was referred to.
	rom administrator's first name Form administrator's last name ganization/program name Phone number for questions

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Group encounter form Complete this form when an encounter with a group of participants takes place. Please write clearly in blue or black ink, place only one character in each box, and use all uppercase letters; this form will be read by a computer.	On what date did these encounters occur? Month Day Year
First name Läst name	Phone number
What is the Month Day Year Please list any additional programs or services the birth date? participant was referred to.	
First name Last name	Phone number
What is the Month Day Year Please list any additional programs or services the birth date? participant was referred to.	
First name Last name	Phone number
What is the Month Day Year Please list any additional programs or services the birth date? participant was referred to.	
First name Last name	Phone number
What is the Month Day Year Please list any additional programs or services the birth date?	
First name Last name	Phone number
What is the Month Day Year Please list any additional programs or services the birth date?	

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Group encounter form Page 2 of 2 First name Last name Phone number What is the Please list any additional Month participant's birth date? programs or services the participant was referred to. What is the Please list any additional participant's birth date? programs or services the participant was referred to. First name Last name Phone number Please list any additional programs or services the \Mhat is the Month Day participant's birth date? participant was referred to First name Last name What is the Month Please list any additional Day participant's birth date? programs or services the participant was referred to. First name What is the Please list any additional programs or services the participant's birth date? participant was referred to. Form administrator's first name Form administrator's last name Phone number for questions Organization/program name When complete, this form can be faxed to 614-293-4183 or scanned and emailed to oeieval@osumc.edu. For questions about this form, call 614-366-8897 or email oeieval@osumc.edu.





Department of Medicaid





Birth form

Complete this form the first time data is collected after the birth of the child. Please write clearly in blue or black ink, place only one character in each box, and use all uppercase letters; this form will be read by a computer.

D (On what date is this form being filled out? Month Day Year Month Day Year
-	Participant's identification information: -irst name Last name
9	Social Security number Medicaid ID number Gender
	Female Male
8	Street address
(City ZIP code Phone number
'/	Infant's identification information: First name Last name
8	Social Security number (if known) Medicaid ID number (if known) Sex
	is the infant's address the Street address
9	same as the participant's? Yes
	No City ZIP code
r f	If you marked yes, you may skip the address fields to the right. If no, complete these fields.

Birth	form Participant's last name and birth date	Month Day Year Page 2 of 2
5	On what date was the infant born? Month Day Year	Where does the infant sleep? (Please check all that apply.)
		☐ Adult bed☐ Crib
6	Was this a multiple birth?	Sofa/couch/chair
9	No	Car seat Floor
	Yes, twins	Bassinet
	Yes, triplets	Pack 'n Play
	If more than one child was born, please use multiple copies of this form for the additional child(ren).	Other (please specify)
7	What is the infant's race/ethnicity? (Please check all that apply.)	
	White (10)	What position is the infant put to sleep in
	Black or African American	most frequently?
	Hispanic or Latino	On their back On their side
	Asian	On their stomach
	Native Hawaiian or Pacific Islander	
	American Indian or Alaska Native	Does the infant ever share a sleeping surface with any other people or a pet?
	Other (please specify)	Yes No
		The final two questions on this form do not apply to participants in a fatherhood program.
8	How is the infant being fed?	
Ī	Breastfeeding only 12	Did the participant receive treatment with progesterone during this pregnancy?
	Some breastfeeding, some formula	Yes No
	Formula only	103
	(3)	How many total prenatal visits did the participant attend during
		this pregnancy?
	Form administrator's first name Form ad	Iministrator's last name
	Organization/program name	Phone number for questions
	When complete, this form can be faxed to 614-293-418 For questions about this form, call 614-36	
		PM 9/14/10

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Exit form

Complete this form as the participant exits the program or when this is likely to be the final encounter.

Please write clearly in blue or black ink, place only one character in each box,
and use all uppercase letters; this form will be read by a computer.

and use all uppercase letters, this form will be read by a computer.
On what date did the participant exit the program? What is the participant's birth date? Month Day Year Year
Participant's identification information: Eirst name Last name
Social Security number Medicaid ID number Gender Female Male
Street address
City ZIP code Phone number
Infant's identification information: First name Last name
Social Security number (if known) Medicaid ID number (if known) Sex
Is the infant's address the same as the participant's?
Yes No
City ZIP code If you marked yes, you
may skip the address fields to the right. If no, complete these fields.

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Exit form Participant's last name and birth date Month Day Year Page 2 of 3				
5	On what date was the infant born? Month Day Year	What is the participant's employment status? (Please check all that apply.) Employed full time Employed part time Unemployed, receiving assistance		
6	Was this a multiple birth? No Yes, twins Yes, triplets If more than one child was born, please use multiple copies	Unemployed, receiving assistance Enrolled in school Disabled Is the participant currently enrolled in any		
7	What kind of housing does the participant have? Live in house/apartment owned by participant Live in house/apartment owned by family/ friends Live in rented house/apartment Live in shelter or group home Public housing Homeless Other (please specify)	of the following public assistance programs? (Please check all that apply.) Women, Infants and Children (WIC) Supplemental Nutrition Assistance Program (SNAP/food stamps) Temporary Assistance for Needy Families (TANF) Disability or unemployment Other prenatal/infant health program Housing assistance program Child care program Food assistance program Exercise/health promotion program		
8	Please check any home safety issues the participant is experiencing. No working smoke detectors Firearms or weapons in home Smell of gas/mildew/mold Pests suspected/present Smoking in house Windows/doors do not lock appropriately Garbage/clutter/unclean environment Drugs/chemicals/cleaning supplies within reach	Exercise/health promotion program Educational/employment assistance program Mental health/substance abuse program Don't know Other (please specify) Does the participant have adequate access to food? Yes No		
	Firearms or weapons in home Smell of gas/mildew/mold Pests suspected/present Smoking in house Windows/doors do not lock appropriately Garbage/clutter/unclean environment	to food?		

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Exit f	t form Participant's last name and birth date	Month Day Year Page 3 of 3		
12		the child received recommended inizations? Yes No		
13)		n the participant is away from home, e does the child or children go for child		
14	If the answer to #13 was more than zero, what were the reasons for the visit/visits?	Family Friends Licensed child care provider Other (please specify)		
		inal two questions on this form do not o participants in a fatherhood program.		
	How visits chec	many postpartum medical did the mother attend to k on her health?		
		Yes No		
	Form administrator's first name Form administrato Organization/program name	Phone number for questions		
	When complete, this form can be faxed to 614-293-4183 or scanned and emailed to oeieval@osumc.edu. For questions about this form, call 614-366-8897 or email oeieval@osumc.edu.			

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