

PI: Werner, James Joseph	Title: Conference for the Evaluation and Continued Development of a Training Curriculum in Practice-Based Research Methods	
Received: 10/29/2015	FOA: PA13-017	Council: 05/2016
Competition ID: FORMS-C	FOA Title: AHRQ CONFERENCE GRANT PROGRAM (R13)	
1 R13 HS024824-01	Dual:	Accession Number: 3876084
IPF: 218601	Organization: CASE WESTERN RESERVE UNIVERSITY	
Former Number:	Department: Family Medicine UH	
IRG/SRG: ZHS1 HSR-T (04)	AIDS: N	Expedited: N
Subtotal Direct Costs (excludes consortium F&A) Year 1: 34,996	Animals: N Humans: N Clinical Trial: N Current HS Code: 10 HESC: N	New Investigator: N Early Stage Investigator: N
<i>Senior/Key Personnel:</i>		
James Werner	Case Western Reserve University	PD/PI

Appendices

Appendix_A_Steering_Committee_Members,Appendix_B_Letters_of_Support,Appendix_C_PBRM_Cert_Program_syllabus2,Appendix_D_Roster_of_Trainees_and_Mentors,Appendix_E_Logic_model_for_evaluation,Appendices_cover_pag

Additions for Review

Modified Budget Pages Budget

APPLICATION FOR FEDERAL ASSISTANCE
SF 424 (R&R)

3. DATE RECEIVED BY STATE		State Application Identifier
1. TYPE OF SUBMISSION*		4.a. Federal Identifier
<input type="radio"/> Pre-application <input checked="" type="radio"/> Application <input type="radio"/> Changed/Corrected Application		b. Agency Routing Number
2. DATE SUBMITTED	Application Identifier	c. Previous Grants.gov Tracking Number
5. APPLICANT INFORMATION		Organizational DUNS*: 077758407
Legal Name*: Case Western Reserve University Department: Family Medicine UH Division: School of Medicine Street1*: 10900 Euclid Ave. Street2: City*: Cleveland County: Cuyahoga State*: OH: Ohio Province: Country*: USA: UNITED STATES ZIP / Postal Code*: 441060000		
Person to be contacted on matters involving this application Prefix: First Name*: Holly Middle Name: Last Name*: Lipkovich Suffix: Position/Title: Director, Office of Grants & Contracts Street1*: 10900 Euclid Ave Street2: City*: Cleveland County: Cuyahoga State*: OH: Ohio Province: Country*: USA: UNITED STATES ZIP / Postal Code*: 441064979 Phone Number*: 216-368-4432 Fax Number: 216-368-0929 Email: medrespre@case.edu		
6. EMPLOYER IDENTIFICATION NUMBER (EIN) or (TIN)*		34-1018992
7. TYPE OF APPLICANT*		<input type="radio"/> Private Institution of Higher Education
Other (Specify): <input checked="" type="radio"/> Small Business Organization Type <input type="radio"/> Women Owned <input type="radio"/> Socially and Economically Disadvantaged		
8. TYPE OF APPLICATION*		If Revision, mark appropriate box(es).
<input checked="" type="radio"/> New <input type="radio"/> Resubmission <input type="radio"/> Renewal <input type="radio"/> Continuation <input type="radio"/> Revision		<input type="radio"/> A. Increase Award <input type="radio"/> B. Decrease Award <input type="radio"/> C. Increase Duration <input type="radio"/> D. Decrease Duration <input type="radio"/> E. Other (specify) :
Is this application being submitted to other agencies?* <input type="radio"/> Yes <input checked="" type="radio"/> No What other Agencies?		
9. NAME OF FEDERAL AGENCY*		10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER
Agency for Health Care Research and Quality		93.226 TITLE: Research on Healthcare Costs, Quality and Outcomes
11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT*		
Conference for the Evaluation and Continued Development of a Training Curriculum in Practice-Based Research Methods		
12. PROPOSED PROJECT		13. CONGRESSIONAL DISTRICTS OF APPLICANT
Start Date* 07/01/2016	Ending Date* 06/30/2017	OH-011

14. PROJECT DIRECTOR/PRINCIPAL INVESTIGATOR CONTACT INFORMATION

Prefix: First Name*: James Middle Name: Last Name*: Werner Suffix:
 Position/Title: Faculty
 Organization Name*: Case Western Reserve University
 Department: Family Medicine UH
 Division: School of Medicine
 Street1*: 10900 Euclid Ave
 Street2:
 City*: Cleveland
 County: Cuyahoga
 State*: OH: Ohio
 Province:
 Country*: USA: UNITED STATES
 ZIP / Postal Code*: 441060000
 Phone Number*: 216-368-2996 Fax Number: 216-368-4348 Email*: james.werner@case.edu

15. ESTIMATED PROJECT FUNDING

a. Total Federal Funds Requested* \$34,996.00
 b. Total Non-Federal Funds* \$0.00
 c. Total Federal & Non-Federal Funds* \$34,996.00
 d. Estimated Program Income* \$0.00

16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?*

a. YES THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON:
 DATE:
 b. NO PROGRAM IS NOT COVERED BY E.O. 12372; OR
 PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW

17. By signing this application, I certify (1) to the statements contained in the list of certifications* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances * and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 18, Section 1001)

I agree*

* The list of certifications and assurances, or an Internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

18. SFLL or OTHER EXPLANATORY DOCUMENTATION

File Name:

19. AUTHORIZED REPRESENTATIVE

Prefix: First Name*: Robin Middle Name: Last Name*: Bissell Suffix:
 Position/Title*: Assistant Dean, Office of Grants & Contracts
 Organization Name*: Case Western Reserve University
 Department: Dean - Medicine
 Division: School of Medicine
 Street1*: 10900 Euclid Ave
 Street2:
 City*: Cleveland
 County: Cuyahoga
 State*: OH: Ohio
 Province:
 Country*: USA: UNITED STATES
 ZIP / Postal Code*: 441064979
 Phone Number*: 216-368-4432 Fax Number: 216-368-0929 Email*: medrespre@case.edu

Signature of Authorized Representative*

Robin.Bissell

Date Signed*

10/28/2015

20. PRE-APPLICATION File Name:**21. COVER LETTER ATTACHMENT** File Name:

424 R&R and PHS-398 Specific Table Of Contents

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Appendix

Number of Attachments in Appendix: 6

Project/Performance Site Location(s)

Project/Performance Site Primary Location

I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name: Case Western Reserve University
Duns Number: 077758407
Street1*: 10900 Euclid Avenue
Street2:
City*: Cleveland
County: Cuyahoga
State*: OH: Ohio
Province:
Country*: USA: UNITED STATES
Zip / Postal Code*: 441060000
Project/Performance Site Congressional District*: OH-011

File Name

Additional Location(s)

RESEARCH & RELATED Other Project Information

1. Are Human Subjects Involved?* <input type="radio"/> Yes <input checked="" type="radio"/> No	
1.a. If YES to Human Subjects Is the Project Exempt from Federal regulations? <input type="radio"/> Yes <input type="radio"/> No If YES, check appropriate exemption number: — 1 — 2 — 3 — 4 — 5 — 6 If NO, is the IRB review Pending? <input type="radio"/> Yes <input type="radio"/> No IRB Approval Date: Human Subject Assurance Number	
2. Are Vertebrate Animals Used?* <input type="radio"/> Yes <input checked="" type="radio"/> No	
2.a. If YES to Vertebrate Animals Is the IACUC review Pending? <input type="radio"/> Yes <input type="radio"/> No IACUC Approval Date: Animal Welfare Assurance Number	
3. Is proprietary/privileged information included in the application?* <input type="radio"/> Yes <input checked="" type="radio"/> No	
4.a. Does this project have an actual or potential impact - positive or negative - on the environment?* <input type="radio"/> Yes <input checked="" type="radio"/> No	
4.b. If yes, please explain: 4.c. If this project has an actual or potential impact on the environment, has an exemption been authorized or an environmental assessment (EA) or environmental impact statement (EIS) been performed? <input type="radio"/> Yes <input type="radio"/> No 4.d. If yes, please explain:	
5. Is the research performance site designated, or eligible to be designated, as a historic place?* <input type="radio"/> Yes <input checked="" type="radio"/> No	
5.a. If yes, please explain:	
6. Does this project involve activities outside the United States or partnership with international collaborators?* <input type="radio"/> Yes <input checked="" type="radio"/> No	
6.a. If yes, identify countries: 6.b. Optional Explanation:	
7. Project Summary/Abstract*	Filename Abstract2.pdf
8. Project Narrative*	Project_Narrative2.pdf
9. Bibliography & References Cited	References.pdf
10. Facilities & Other Resources	Facilities__Other_Resources.pdf
11. Equipment	

Abstract

This application proposes a conference to comprehensively evaluate the Certificate Program in Practice-Based Research Methods (PBRM-Cert), a 10-month training program for health services research (HSR) faculty designed to increase their competitiveness in obtaining federal research grants for practice-based research network (PBRN) HSR studies. The PBRM-Cert program is sponsored by the eight AHRQ P30 Centers of Primary Care Practice-Based Research and Learning, and is endorsed by the Board of Directors of the North American Primary Care Research Group (NAPCRG). The conference will take place during the two days preceding the NAPCRG PBRN Conference in July 2016.

A rigorous evaluation of the curriculum will be essential to identify strengths and weaknesses in order to improve the program prior to starting the next cohort trainees in September 2016. The proposed evaluation conference will be attended by trainees, mentors, and Steering Committee members. The program evaluation will involve 5 formative assessment activities and 5 summative assessment activities. The formative assessments will take place through online surveys conducted prior to the conference; these data will be analyzed in advance and presented at the conference. The summative assessments will be conducted through surveys, focus groups and facilitated discussions about what was learned, what was effective, and what could be improved. The evaluation data will inform the development of a revised curriculum that will be developed and presented at the conference for participants' critique and input.

Dissemination activities will be planned at the conference and will include preparing a manuscript of conference proceedings to be submitted for publication to a primary care research journal. Plans will be made to also disseminate the conference findings through a presentation at a national primary care research conference. The final curriculum will be freely downloadable through the PBRM-Cert program's website.

Project Narrative

The purpose of the proposed evaluation conference for the Certificate Program in Practice-Based Research Methods is to evaluate and strengthen a program to enhance the knowledge and skills of junior health services researchers in conducting practice-based research network (PBRN) studies. Strengthening the program will better meet trainees' learning needs and increase their competitiveness for grant funding in support of innovative primary care practice-based research studies that make healthcare safer, more accessible, more patient-centered, and more effective.

Facilities and Other Resources

The venue for the proposed curriculum evaluation conference is the Hyatt Regency Bethesda Hotel in Bethesda, MD. The Hyatt Bethesda is centrally located in downtown Bethesda, MD and is in close proximity the Washington DC metro system, the Capital Beltway, and several major airports. Discussions have been held with the hotel sales staff and arrangements will be finalized once the grant is received, or a suitable alternative site will be chosen with similar meeting and lodging facilities.

The Hyatt Bethesda has 390 guestrooms, including seven suites, 186 king & queen rooms, 173 double rooms, and ten PURE hypo-allergenic rooms. It features more than 20,000 square feet of meeting and event space, including 19 meeting rooms, many of which are ideally suited for the proposed conference. All meeting rooms are equipped with Wi-Fi and state-of-the-art audiovisual equipment to facilitate presentations. Meeting rooms feature individual or master controls for heat/AC, sound, music, telephones, multiple electrical/microphone outlets, special lighting effects and 115V/220V single-phase electricity. Complimentary water pitchers, pens and pads will be provided, and 24-hour self-service business center will be available to conference participants.

All meeting rooms and hotel facilities at the Hyatt Bethesda are handicapped accessible, and lodging for disabled guests is available on special request. Attendees will have the option to indicate special needs, including dietary restrictions, on the conference registration form. Childcare arrangements can be made through the hotel's concierge. A hotel parking garage is available. Group dining will be an available option, as there are more than 100 restaurants within walking distance of the hotel.

RESEARCH & RELATED Senior/Key Person Profile (Expanded)

PROFILE - Project Director/Principal Investigator				
Prefix:	First Name*: James	Middle Name	Last Name*: Werner	Suffix:
Position/Title*:	Faculty			
Organization Name*:	Case Western Reserve University			
Department:	Family Medicine UH			
Division:	School of Medicine			
Street1*:	10900 Euclid Ave			
Street2:				
City*:	Cleveland			
County:	Cuyahoga			
State*:	OH: Ohio			
Province:				
Country*:	USA: UNITED STATES			
Zip / Postal Code*:	441060000			
Phone Number*:	216-368-2996	Fax Number:	216-368-4348	E-Mail*: james.werner@case.edu
Credential, e.g., agency login: JAMESWERNER				
Project Role*: PD/PI		Other Project Role Category:		
Degree Type:		Degree Year:		
Attach Biographical Sketch*:		File Name		
Attach Current & Pending Support:		WernerNIHbiosketch_10_26_15.pdf		
		Werner_J_OS.pdf		

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. DO NOT EXCEED FIVE PAGES.

NAME Werner, James Joseph		POSITION TITLE Associate Professor of Family Medicine	
eRA COMMONS USER NAME JAMESWERNER			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date	FIELD OF STUDY
Ohio State University, Columbus, Ohio	B.S.	12/1980	Agronomy
Ohio State University, Columbus, Ohio	M.S.	12/1983	Biological Sciences
University of Colorado, Denver, Colorado	Ph.D.	12/2002	Health and Behavioral Sciences
Case Western Reserve University, Cleveland, Ohio	M.S.S.A.	05/2010	Social Science Administration

A. Personal Statement

I have developed practice-based research networks (PBRNs) and trained clinicians and investigators in PBRN methods for more than 20 years. From 1994-2002, I was Research Director of the country's largest PBRN, and since 2004 I have developed and directed one of the largest PBRN systems in the U.S. The PBRN Shared Resource that I direct receives infrastructure funding from two NIH Institutes (NCI & NCATS) and is an AHRQ Center of Practice-Based Research and Learning. I have trained more than 40 primary care faculty members in PBRN methods through four multi-year training programs funded by NCI and HRSA which I have led or co-led, have developed and taught a 3 credit graduate level course in PBRN methods, and have trained faculty from diverse disciplines in a 13-week PBRN Seminar Series that I have conducted on two occasions. I am experienced in program evaluation and have either led or co-led the program evaluations of the four aforementioned federally-funded PBRN methods training programs.

Because PBRNs are highly participatory, training both full time clinicians and research investigators in PBRN methods is essential to fostering research collaborations. The first two manuscripts listed below on the topics of evaluation and training, respectively, and the third paper proposes a new model with outcomes measurement for learning collaboratives of PBRN clinicians, investigators, and diverse community-based organizations.

- Werner JJ. Measuring the impact of practice-based research networks. *J Am Board Fam Med.* 2012; 25(5):557-559.
- Lawson PJ, Smith S, Mason MJ, Zyzanski SJ, Stange KC, Werner JJ, Flocke SA. Creating a culture of inquiry in family medicine. *Fam Med.* 2014 Jul-Aug;46(7):515-21.
- Werner JJ, Stange KC. Praxis-based research networks: An emerging paradigm for research that is rigorous, relevant, and inclusive. *J Am Board Fam Med.* 2014; 27(6): 730-735.
- Nutting PA, Beasley JW, Werner JJ. Practice-based research networks answer primary care questions. *JAMA.* 1999 Feb 24;281(8):686-688.

B. Positions and Honors

1994-2002 Director of Research, Ambulatory Sentinel Practice Network (ASPN), Denver, Colorado.
 2002-2003 Doctoral Candidate, University of Colorado, Denver, CO
 2004-2013 Assistant Professor of Family Medicine, Case Western Reserve University, Cleveland, OH
 2004-present Director, PBRN Core Facility, Case Comprehensive Cancer Center, Cleveland, OH
 2007-2010 Co-Director, PBRN Shared Resource, Cleveland Clinical and Translational Science Collaborative, Case Western Reserve University, Cleveland, OH
 2011-present Co-Director, Behavioral Science Education, Bolwell Family Medicine Residency Center, University Hospitals/Case Medical Center, Cleveland, OH

- 2011-present Director, PBRN Shared Resource, Cleveland Clinical and Translational Science Collaborative, Case Western Reserve University, Cleveland, OH
- 2012-present Director and PI, AHRQ-funded P30 COIN Center for Practice-Based Research and Training, CWRU Department of Family Medicine, Case Western Reserve University, Cleveland, OH
- 2013-present Associate Professor, Department of Family Medicine and the Mandel School of Applied Social Sciences, Case Western Reserve University, Cleveland, OH

C. Contribution to Science

Primary Care Behavioral Health Research and Training

- 1) I have made contributions in the areas of primary care behavioral health research and training. Early in my career, I engaged in a series of PBRN investigations to test team-based primary care-based interventions for patients with depression. We found that primary care-based nurse case managers could implement an effective depression treatment protocol that engaged both patients and their physicians over more than 6 months. This prompted me to earn a masters degree in clinical social work, with specialization in adult mental health. In 2010, I was awarded a 5-year grant from HRSA to train attending primary care physicians to integrate health behavior change interventions into clinical care and precepting of residents. In recent years, my research has focused on health behavior change for effective diabetes self-management and smoking cessation.
- Rost K, Nutting PA, Smith J, Werner J, Duan N. Improving depression outcomes in community primary care practice: a randomized trial of the quEST intervention. *J Gen Intern Med*, 2001 Mar;16(3):143-149.
 - Nutting PA, Rost K, Dickinson M, Werner JJ, Dickinson P, Smith JL, Gallovic B. Barriers to initiating depression treatment in primary care practice. *J Gen Intern Med*, 2002 Feb;17(2):103-111.
 - Hanahan Madden M, Tomsik P, Terchek J, Navracruz L, Reichsman A, Clemons Clark T, Cella P, Weirich SA, Munson M, Werner JJ. Keys to successful diabetes self-management for uninsured patients: social support, observational learning, and turning points. *J Nat Med Assn*. 2011; 103(3):257-264.
 - Werner JJ, Lawson PJ, Panaite V, Step MM, Flocke SA. Comparing primary care physicians' smoking cessation counseling techniques to Motivational Interviewing. *Journal of Addiction Medicine*. 2013;7(2):139-142.

Complete List of Published Work in MyBibliography:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/12Ud-i9B8pg5p/bibliograpahy/40163581/public/?sort=date&direction=ascending>

D. Research Support

ONGOING RESEARCH SUPPORT

ACTIVE

Current Grant Support

“Center for Practice-Based Network Research: Collaborative Ohio Inquiry Network (COIN)”
P30HS021648-01

Principal Investigator:	James J. Werner, PhD, MSSA
Source of Support:	Agency for Healthcare Research and Quality (AHRQ)
% Effort supported:	(b) (6)
Dates:	09/1/2012 to 08/31/2017
Total Direct Costs:	\$323,644
Role:	Principal Investigator, Center Director

“Strengthening the Behavioral Health Training Skills of Family Medicine Faculty”
D55HP20649-01-00

Project Director: James J. Werner, PhD, MSSA
Source of Support: U.S. Department of Health and Human Services, Health Resources and Services Administration (HRSA)
% Effort supported: (b) (6)
Dates: 09/1/2010-06/30/2016
Total Direct Costs: \$1,116,028
Role: Principal Investigator, Project Director, Instructor

“Clinical and Translational Science Award” 5TL1RR024991-04

Principal Investigator: Pamela Davis, MD, PhD
Source of Support: National Center for Advancing Translational Sciences (NCATS)
% Effort supported: (b) (6)
Dates: 09/1/2012 - 08/31/2017
Total Direct Costs: (b)(4), (b)(6)
Role: Director, Practice-Based Research Network Shared Resource

“Comprehensive Cancer Center Research Center Support Grant,” P30 CA-43703-15

Principal Investigator: Stanton Gerson, MD
Source of Support: National Institutes of Health, National Cancer Institute (NCI)
% Effort Supported: (b) (6)
Dates: 08/1/2013-12/31/2018
Total Direct Costs: \$2,483,930
Role: Director, Practice-Based Research Network Core Facility

“Improving Primary Care Access and Outcomes for High-Utilizing Patients”

Project Director: Christine Antenucci, MD
Source of Support: Ohio Medicaid Technical Assistance and Policy Program (MEDTAPP)
% Effort Supported: (b) (6)
Dates: 07/04/13-06/30/16
Role: Director, Medical Student Health Coaching Project

OTHER SUPPORT**WERNER, JAMES J.****ACTIVE**

P30HS021648-01 (Werner, PI) 07/01/12-06/30/17 (b) (6) calendar
 Agency for Healthcare Research and Quality (AHRQ) \$498,806 (b) (6) effort
 Building the Collaborative Ohio Inquiry Network for Practice-Based Research

This program brings together PBRNs in Cleveland, Columbus, Cincinnati, and Rootstown to conduct collaborative practice-based research and to compete for AHRQ limited competition RFAs.

Role: Principal Investigator and Project Director.

D55HP20649 (Werner, PI) 09/01/10-6/30/15 (b) (6) calendar
 HRSA \$199,280 (b) (6) effort

Strengthening the Behavioral Health Training Skills of Family Medicine Faculty

A training program to prepare Family physician faculty in the Case Department of Family Medicine to more effectively train Family Medicine residents to meet the psychosocial needs of patients with inter-related behavioral and physical health conditions.

Role: Project Director

5P30 CA043703-19 (Gerson, PI) 09/30/91-03/31/17 (b) (6) calendar
 NIH/NCI \$53,632 (b) (6) effort

Case Comprehensive Cancer Center Support Grant

The objectives of the Center are: 1) to improve the prevention, diagnosis, and therapy of cancer through research; 2) to stimulate and support innovative, coordinated, interdisciplinary research on cancer diagnosis, treatment, and control; 3) to develop clinical applications of research discoveries and to make these applications available as quickly as possible; and 4) to develop cancer prevention and control activities to contribute to the reduction of cancer morbidity and mortality in Northeast Ohio and the surrounding region and nation.

Role: Director, Practice-Based Research Network Core Facility

5UL1 RR024989-02 (Davis, PI) 09/17/07-05/31/17 (b) (6) calendar
 NIH/NCATS \$270,998 (b) (6) effort

Case Western Reserve University/Cleveland Clinic CTSA

The CWRU/Cleveland Clinic CTSA coordinates the existing resources relevant to translational and clinical research at CWRU and 3 of its hospital affiliates, Cleveland Clinic, MetroHealth Medical Center, and University Hospitals Case Medical Center, including 3 existing GCRC facilities, a successful multidisciplinary institutional K12 program, technological and statistical core facilities and practice-based research networks, as well as create new resources.

Role: Director, Practice-Based Research Network Shared Resource

G-1213-07-0343 (Chrisman-Khawam, PI) 07/04/13-06/30/14 (b) (6) calendar
 (b) (6) cost share

Ohio Medicaid Technical Assistance and Policy Program (MEDTAPP) (b)(4), (b)(6) (b) (6) effort

Improving Primary Care Access and Outcomes for High-Utilizing Patients

This project seeks to improve primary care access and outcomes for high-utilizing Medicaid patients at MetroHealth Medical Center and University Hospitals of Greater Cleveland.

Role: Behaviorist. Engage and support high-utilizing patients through the University Hospitals Safely Home project to reduce unnecessary re-hospitalizations. Train medical students in health behavior change methods and motivational interviewing in order to support Centering Pregnancy program.

PENDING

None.

OVERLAP

No overlap in scope, effort, or other budgetary items.

RESEARCH & RELATED BUDGET - SECTION A & B, Budget Period 1

ORGANIZATIONAL DUNS*: 077758407

Budget Type*: Project Subaward/Consortium

Enter name of Organization: Case Western Reserve University

Start Date*: 07-01-2016

End Date*: 06-30-2017

Budget Period: 1

A. Senior/Key Person												
Prefix	First Name*	Middle Name	Last Name*	Suffix	Project Role*	Base Salary (\$)	Calendar Months	Academic Months	Summer Months	Requested Salary (\$)*	Fringe Benefits (\$)*	Funds Requested (\$)*
1.	James		Werner		PD/PI	(b) (6)						
Total Funds Requested for all Senior Key Persons in the attached file											0.00	
Additional Senior Key Persons: File Name:											Total Senior/Key Person (b) (6)	

B. Other Personnel							
Number of Personnel*	Project Role*	Calendar Months	Academic Months	Summer Months	Requested Salary (\$)*	Fringe Benefits*	Funds Requested (\$)*
	Post Doctoral Associates						
	Graduate Students						
	Undergraduate Students						
	Secretarial/Clerical						
1	Other(Program Mgr)				(b)(4), (b)(6)		
1	Total Number Other Personnel						Total Other Personnel (b)(4), (b)(6)
Total Salary, Wages and Fringe Benefits (A+B)							(b)(4), (b)(6)

RESEARCH & RELATED Budget {A-B} (Funds Requested)

RESEARCH & RELATED BUDGET - SECTION C, D, & E, Budget Period 1**ORGANIZATIONAL DUNS*:** 077758407**Budget Type*:** Project Subaward/Consortium**Organization:** Case Western Reserve University**Start Date*:** 07-01-2016**End Date*:** 06-30-2017**Budget Period:** 1**C. Equipment Description**

List items and dollar amount for each item exceeding \$5,000

Equipment Item	Funds Requested (\$)*
Total funds requested for all equipment listed in the attached file	0.00
Total Equipment	0.00

Additional Equipment: File Name:**D. Travel**

	Funds Requested (\$)*
1. Domestic Travel Costs (Incl. Canada, Mexico, and U.S. Possessions)	16,815.00
2. Foreign Travel Costs	0.00
Total Travel Cost	16,815.00

E. Participant/Trainee Support Costs

	Funds Requested (\$)*
1. Tuition/Fees/Health Insurance	
2. Stipends	
3. Travel	
4. Subsistence	
5. Other:	
Number of Participants/Trainees	Total Participant Trainee Support Costs

RESEARCH & RELATED Budget {C-E} (Funds Requested)

RESEARCH & RELATED BUDGET - SECTIONS F-K, Budget Period 1

ORGANIZATIONAL DUNS*: 077758407

Budget Type*: Project Subaward/Consortium

Organization: Case Western Reserve University

Start Date*: 07-01-2016

End Date*: 06-30-2017

Budget Period: 1

F. Other Direct Costs	Funds Requested (\$)*
1. Materials and Supplies	350.00
2. Publication Costs	0.00
3. Consultant Services	0.00
4. ADP/Computer Services	0.00
5. Subawards/Consortium/Contractual Costs	0.00
6. Equipment or Facility Rental/User Fees	0.00
7. Alterations and Renovations	0.00
8. Rental	6,000.00
Total Other Direct Costs	6,350.00

G. Direct Costs	Funds Requested (\$)*
Total Direct Costs (A thru F)	34,996.00

H. Indirect Costs			
Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	Funds Requested (\$)*
1. Training (MTDC)	0	34,996.00	0.00
Total Indirect Costs			0.00
Cognizant Federal Agency	DHHS, Uyen Tran, HHS Rep, 214-767-3261		
(Agency Name, POC Name, and POC Phone Number)			

I. Total Direct and Indirect Costs	Funds Requested (\$)*
Total Direct and Indirect Institutional Costs (G + H)	34,996.00

J. Fee	Funds Requested (\$)*
	0.00

K. Budget Justification*
File Name: Budget_justification_10282015.pdf (Only attach one file.)

RESEARCH & RELATED Budget {F-K} (Funds Requested)

Detailed Budget Justification:**1. Personnel**

James J. Werner, Ph.D., MSSA, Principal Investigator, (b) (6) calendar months) is an Associate Professor and the Director of the Practice-Based Research Network Shared Resource (PBRNSR), a Core of the Case Western Reserve University Clinical and Translational Science Collaborative and the Case Comprehensive Cancer Center, and is PI of the Collaborative Ohio Inquiry Network (COIN), an AHRQ Center for Primary Care Practice-Based Research and Learning. He will oversee and lead the evaluation conference, and will oversee the budget for the project. Dr. Werner will work to assure that all stakeholders participate in the evaluation conference. He will keep the conference on schedule and on topic, and will supervise the work of the Conference Coordinator, Ms. Ross. Prior to the conference, he will assure that all planned survey-based formative evaluation activities are conducted and that online assessments are completed, collected and analyzed, and he will present these analyses to stakeholders at the conference. Dr. Werner will lead Steering Committee members in assessing the summative evaluation findings on the evening of the first day of the conference, and will oversee the curriculum revision process. He will coordinate the presentation and discussion of the revised curriculum on day 2 so that it can be effectively critiqued by stakeholders. He will oversee dissemination planning and will take the lead on preparing a manuscript to disseminate conference proceedings. He will direct the planning of presentations at conference that will disseminate the evaluation findings.

2. Other Personnel

Amanda Ross, Conference Coordinator, (b) (6) calendar months) is the Administrative Director of the Practice-Based Research Network Shared Resource at Case Western Reserve University and the Collaborative Ohio Inquiry Network (COIN). Mrs. Ross will be the Coordinator for the Conference for the Evaluation and Continued Development of a Training Curriculum in Practice-Based Research Methods. Ms. Ross will manage the implementation of the overall conference, in coordination with the PI. Ms. Ross will work closely with hotel staff to make lodging arrangements and will provide travel information and assistance to conference attendees. She will support the program's evaluation and dissemination activities.

3. Fringe Rate

Fringe rates are calculated at (b) (4), (b) (6) in accordance with university guidelines. The fringe rate consists of health insurance, unemployment compensation, FICA, Medicare, life insurance and long-term disability insurance.

4. Supplies

The Supplies budget of \$350.00 will be used to support the supply needs of the conference including document printing. These documents will include but are not limited to name tags, agendas, and bound informational documents.

The Conference will be held at the Hyatt Regency Bethesda in Bethesda, Maryland. The hotel has provided an estimate to include two meeting rooms for day 1 and one meeting room for day two, as well as an audio/visual package to support the needs of the conference over that time. The total cost, including taxes, will be approximately \$6000.00.

5. Domestic Travel for Participant/Trainee Support Costs

The Participant/Trainee Support Costs budget will support the travel of the mentors and the trainees to the Conference. A majority of this budget (b) (4) will be used to support the trainees of the Certificate of Practice-Based Research Methods program. Each trainee will receive (b) (4) for two days of meals ((b) (4) per day of per diem meal support), (b) (4) for two nights at the hotel (b) (4) per night plus 13% tax), and (b) (4) toward transportation expenses. The remainder of the budget (b) (4) will also be used to support the mentors to travel to attend the program. Each mentor will receive (b) (4) for two days of meals ((b) (4) per day of per diem meal support), (b) (4) for two nights at the hotel (b) (4) per night plus 13% tax).

RESEARCH & RELATED BUDGET - Cumulative Budget

	Totals (\$)	
Section A, Senior/Key Person		(b)(4), (b)(6)
Section B, Other Personnel		(b) (4)
Total Number Other Personnel	1	
Total Salary, Wages and Fringe Benefits (A+B)		(b)(4), (b)(6)
Section C, Equipment		0.00
Section D, Travel		16,815.00
1. Domestic	16,815.00	
2. Foreign	0.00	
Section E, Participant/Trainee Support Costs		0.00
1. Tuition/Fees/Health Insurance	0.00	
2. Stipends	0.00	
3. Travel	0.00	
4. Subsistence	0.00	
5. Other	0.00	
6. Number of Participants/Trainees	0	
Section F, Other Direct Costs		6,350.00
1. Materials and Supplies	350.00	
2. Publication Costs	0.00	
3. Consultant Services	0.00	
4. ADP/Computer Services	0.00	
5. Subawards/Consortium/Contractual Costs	0.00	
6. Equipment or Facility Rental/User Fees	0.00	
7. Alterations and Renovations	0.00	
8. Other 1	6,000.00	
9. Other 2	0.00	
10. Other 3	0.00	
Section G, Direct Costs (A thru F)		34,996.00
Section H, Indirect Costs		0.00
Section I, Total Direct and Indirect Costs (G + H)		34,996.00
Section J, Fee		0.00

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OMB Number: 0925-0001

1. Project Director / Principal Investigator (PD/PI)

Prefix:

First Name*: James

Middle Name:

Last Name*: Werner

Suffix:

2. Human Subjects

Clinical Trial? No Yes

Agency-Defined Phase III Clinical Trial?* No Yes

3. Permission Statement*

If this application does not result in an award, is the Government permitted to disclose the title of your proposed project, and the name, address, telephone number and e-mail address of the official signing for the applicant organization, to organizations that may be interested in contacting you for further information (e.g., possible collaborations, investment)?

Yes No

4. Program Income*

Is program income anticipated during the periods for which the grant support is requested? Yes No

If you checked "yes" above (indicating that program income is anticipated), then use the format below to reflect the amount and source(s). Otherwise, leave this section blank.

Budget Period*	Anticipated Amount (\$)*	Source(s)*
.....
.....
.....
.....
.....

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5. Human Embryonic Stem Cells

Does the proposed project involve human embryonic stem cells?* No Yes

If the proposed project involves human embryonic stem cells, list below the registration number of the specific cell line(s) from the following list: http://grants.nih.gov/stem_cells/registry/current.htm. Or, if a specific stem cell line cannot be referenced at this time, please check the box indicating that one from the registry will be used:

Cell Line(s): Specific stem cell line cannot be referenced at this time. One from the registry will be used.

6. Inventions and Patents (For renewal applications only)

Inventions and Patents*: Yes No

If the answer is "Yes" then please answer the following:

Previously Reported*: Yes No

7. Change of Investigator / Change of Institution Questions

Change of principal investigator / program director

Name of former principal investigator / program director:

Prefix:

First Name*:

Middle Name:

Last Name*:

Suffix:

Change of Grantee Institution

Name of former institution*:

PHS 398 Research Plan

Please attach applicable sections of the research plan, below.

OMB Number: 0925-0001

1. Introduction to Application (for RESUBMISSION or REVISION only)	
2. Specific Aims	Specific_Aims2.pdf
3. Research Strategy*	Conference_Plan2.pdf
4. Progress Report Publication List	
Human Subjects Sections	
5. Protection of Human Subjects	
6. Inclusion of Women and Minorities	
7. Inclusion of Children	
Other Research Plan Sections	
8. Vertebrate Animals	
9. Select Agent Research	
10. Multiple PD/PI Leadership Plan	
11. Consortium/Contractual Arrangements	
12. Letters of Support	
13. Resource Sharing Plan(s)	
Appendix (if applicable)	
14. Appendix	Appendices_cover_page.pdf Appendix_A__Steering_Committee_Members.pdf Appendix_B__Letters_of_Support.pdf Appendix_C__PBRM_Cert_Program_syllabus2.pdf Appendix_D__Roster_of_Trainees_and_Mentors.pdf Appendix_E__Logic_model_for_evaluation.pdf

Specific Aims

Practice-based research networks (PBRNs) have conducted health services research (HSR) in community practice settings for more than 35 years. They have become essential resources for studying high priority areas including patient safety, disparities in healthcare access, and improvement of healthcare quality while controlling costs. In a time of rapid health system change, PBRNs enable real world learning where healthcare is delivered.

Young scientists entering the field of PBRN HSR find themselves in the most unfavorable funding environment in a half a century which has led to increased rates of attrition among new investigators. Junior faculty members are in need of focused training and mentoring in PBRN methods to improve their competitiveness for grant funding and their abilities to conduct PBRN studies. Effective training programs are needed in order to develop a new generation of PBRN HSR investigators.

In order to meet this need, a national HSR faculty development program, the Certificate Program in Practice-Based Research Methods (PBRM-Cert), has been created to train faculty in PBRN methods. This 10-month multidisciplinary HSR training program is led by a cohesive Steering Committee comprised of the Directors of the eight AHRQ-funded P30 Centers for Primary Care Practice-Based Research and Learning and other key PBRN leaders. In its first year, the program has enrolled 17 trainees who hold faculty positions at academic centers across the U.S. Each trainee participates in group and individualized training and is mentored by an experienced PBRN investigator.

After completion of the PBRM-Cert program's first cohort in summer 2016, a rigorous curriculum evaluation will be needed to identify and analyze the program's strengths and weaknesses and refine the curriculum for subsequent training cohorts. The present application proposes to evaluate and strengthen the PBRM-Cert program by holding a comprehensive curriculum evaluation conference that engages all of the program's stakeholders: its trainees, mentors, and Steering Committee members.

The Aims of the conference to evaluate and strengthen the PBRN-Cert curriculum are the following:

- 1) Assess trainees' development as PBRN investigators by evaluating their final learning products, understanding trainees' and mentors' perspectives and experiences, and interpreting evaluation data from multidisciplinary perspectives;
- 2) Facilitate a critical review by stakeholders of a revised PBRM-Cert curriculum that is informed by the evaluation data;
- 3) Develop a plan for disseminating the outcomes of the evaluation, what is learned at the conference, and the conference's primary product, the revised curriculum.

These aims will be accomplished at a two-day conference attended by trainees, mentors, and Steering Committee members. The proposed conference will be held immediately prior to the 2016 North American Primary Care Research Group (NAPCRG) PBRN Conference in Bethesda, MD, and will take place at the same location as the NAPCRG conference for efficiency. It is important to note that no training will be conducted at the proposed conference.

Survey-based formative and summative evaluation data will be analyzed in advance and presented to conference participants. Additional summative evaluation data will be generated through trainees' final dissemination presentations and focus groups on the first day. Findings will inform the development of a revised curriculum that will be developed on the evening of the first day, which participants will critically evaluate on the second day.

The Steering Committee will take initial steps to disseminate what is learned at the conference by developing a plan to develop a manuscript for publication and present findings at conferences. The curriculum resulting from the conference will be made freely available on the program's web site.

Conference Plan

Significance

Practice-based research networks (PBRNs) have conducted health services research (HSR) in community-based healthcare settings for more than 35 years.^{1,2} They combine the insights of experienced clinicians with the skills of HSR investigators to investigate high priority areas including patient safety, disparities in access, and improvement of healthcare quality while controlling costs.³ There are presently 176 AHRQ-registered practice-based research networks (PBRNs) in the U.S comprising more than 13,000 primary care practices that provide healthcare to more than 50 million Americans.⁴ PBRNs study processes of care and the manner in which services are delivered, diseases are diagnosed, treatments initiated, and chronic conditions managed in "real world" practice settings.^{1,4} These networks are essential resources for conducting research in high priority areas such as patient safety, disparities in healthcare access, and improving healthcare quality while controlling costs.³ In a time of rapid health system change, PBRNs enable 'real world' learning where healthcare is delivered.

Young scientists entering health research fields today find themselves in a historically inhospitable funding environment.⁵⁻⁷ Numerous causes have been identified: fewer available federal research dollars, record low federal paylines, scientific review criteria that favor investigators with experience, and the tendency by grant reviewers to disfavor daring ideas or paradigm-shifting approaches.⁸ The result is that few young faculty members are successful in obtaining R01 grants.⁹

It is increasingly common for academic medical centers to require tenure track faculty members to obtain one or more R01 grants before they can be promoted or tenured. The number of principal investigators with R01s who are 36 years old or younger dropped from 18 percent in 1983 to 3 percent in 2010. The average age when a physician scientist is first awarded an R01 has risen from under 38 years old in 1980 to more than 45 in 2013, and increased from age 36 to 42 for non-physician investigators during the same time frame.¹⁰ Although NIH has programs to foster the development of young scientists, they have not altered these trends. As the time from initial faculty appointment to first R01 grows longer, the risk increases of exceeding the tenure clock. This environment makes it increasingly difficult for young scientists to be successful in research faculty positions.^{6,8}

Additional factors are jeopardizing the careers of young scientists. The NIH has steadily shifted research costs to academic centers over the past several decades, more than doubling the financial burden on universities and leading to fewer available positions for junior research faculty. Further, attrition from health research fields has increased among young scientists since federal budget sequestration cuts were implemented in 2013.⁷ Those most at risk from these cuts are young faculty who are seeking to establish themselves by securing NIH grants. This has led NIH Director Francis Collins to publically state his grave concern that "we may lose a generation of young scientists."⁹

New investigators seeking to make a career in PBRN HSR must overcome these daunting challenges as they compete for research funding.¹¹ This is taking place at a time when the rapidly changing U.S. healthcare system has never been in greater need of innovative new HSR investigators who can develop groundbreaking approaches to the intractable problems encountered in pursuit of the triple aim.⁵ The field of PBRN HSR may be at a critical point in its evolution due to the many factors jeopardizing its much needed current generation of young investigators.

The vast majority of PBRN investigators funded by AHRQ or NIH are between the ages of 45-65, and the low numbers of federal grants being secured by younger PBRN investigators is an issue of concern among PBRN leaders. The loss of a generation of PBRN investigators would be devastating to the viability of PBRNs and the conduct practice-based HSR.

AHRQ Centers for Primary Care Practice-based Research and Learning

In 2012, the Agency for Healthcare Research and Quality (AHRQ) awarded P30 grants to create eight Centers for Primary Care Practice-based Research and Learning (RFA-HS-12-002). These 5-year grants support the development of Centers that each comprise multiple PBRNs that leverage resources and stimulate innovation in improving the delivery and organization of primary care. These partnerships facilitate the conduct of large-

scale HSR research, support training activities, and disseminate knowledge with the ultimate aim of improving patient care.¹² The eight Centers comprise more than 50 PBRNs that conduct diverse research, are turn-key ready to conduct rapid cycle research and broad dissemination, and are ideal for translating patient-centered outcomes research (PCOR) evidence into real world practice.

Although PBRNs have been active in the U.S. for more than 35 years, the PBRN community does not have a national training program to serve as a pipeline for developing PBRN investigators. Training programs conducted in PBRNs have been time-limited local efforts typically designed to train full-time clinicians to conduct small scale research and QI in their practices.

Certificate Program in Practice-Based Research Methods

The Directors of the eight AHRQ Centers of Primary Care Practice-based Research and Learning have collaborated to develop a national training program to improve the competitiveness of HSR PBRN research investigators and support their professional development. This new multidisciplinary training program, the Certificate Program in Practice-Based Research Methods (PBRM-Cert) was launched in September 2015. The program's Steering Committee consists of the Directors of the eight AHRQ-funded Centers and is led by two Center Directors, James Werner, PhD and LJ Fagnan, MD. A list of the program's Steering Committee members are provided in Appendix A. The need for this multidisciplinary HSR program is regarded as so pressing that it is being implemented through a volunteer effort by the program's Steering Committee. Although the program does not have direct grant support at present, funding is being sought to provide protected effort for future cohorts of trainees and mentors.

The PBRM-Cert program has been endorsed by the North American Primary Care Research Group (NAPCRG) and it closely aligns with their mission to "nurture novice researchers with training in research methodology, grant development, career planning and providing supportive feedback on research ideas and projects." A letter of support from the Executive Director of NAPCRG, Dr. Thomas Vansaghi, is provided in Appendix B.

During the 10-month PBRM-Cert program, HSR faculty members from academic centers across the U.S. are mentored by one or more experienced PBRN research investigators. Each trainee has a primary mentor at his or her site and may have additional mentors located at other institutions, all of whom are affiliated with the program. Trainees and mentors have been endorsed by an AHRQ-funded P30 Center of Primary Care Practice-based Research and Learning. Interactive, webinar-based Training Seminars led by nationally-recognized HSR experts are held 1-2 times each month. In advance of each webinar, trainees are required to read 3-5 articles that are selected by the webinar leader. All of the AHRQ PBRN tools and resources are listed in references section of the syllabus and webinar leaders encouraged to assign them as readings and resources.

With their mentors, trainees develop a Learning Plan in which they set their goals and objectives for achievement during the program, the activities that they will conduct in pursuit of those goals, and a timeline for each activity. Trainees meet with their mentors 1-2 times each month to review their learning progress and plan next steps. Trainees devote 4-6 hours/month to the program and mentors devote 1-2 hours/month. Participants who meet established criteria will be awarded the Certificate of Practice-Based Research Methods, which is endorsed by NAPCRG.

Under the guidance of their mentors, trainees use a participatory approach to engage PBRN clinicians and other key stakeholders in collaboratively designing a PBRN research proposal which they initially develop in the form of a concept paper. This is followed by development of a Specific Aims section, which will serve as the beginning to an AHRQ or NIH grant proposal for a PBRN investigation. These are the two primary end products for each trainee in the initial cohort, and they are carefully critiqued by mentors and Steering Committee members. Program leaders hope to increase the time commitment of trainees and mentors in future cohorts through grant support, which would enable trainees to conduct a PBRN pilot study and develop a full AHRQ/NIH proposal during the program period. The syllabus for the PBRM-Cert program is provided in Appendix C.

The PBRM-Cert program's learning objectives for trainees are the following:

- 1) Apply methods of practice-based research network development to initiate new PBRNs and strengthen existing networks.
- 2) Describe the range of research questions that fit within PBRN settings, and provide examples of studies that play to the strengths of PBRNs.
- 3) Describe how HSR topics and questions can be elicited from PBRN members, patients, and other community stakeholders.
- 4) Conceptualize the changing landscape of PBRN research and describe approaches for expanding research from practices to patients and communities.
- 5) Explain how electronic health record data and large administrative data sets can be effectively used to answer HSR questions in PBRNs.
- 6) Describe sampling methods used in PBRN research, explain common threats to validity in PBRN studies, and discuss the rationale for nested analyses and outline the steps involved.
- 7) Apply principles, methods, and tools for quality improvement research within primary care PBRNs.
- 8) Explain human subject protection issues that are relevant to PBRN research and describe effective methods for addressing IRB and HIPAA issues. Explain the typical processes and timelines in IRB review for practice-based research protocols.
- 9) Understand PBRN research in the contexts of implementation science and the translational science continuum.
- 10) Describe the range of strategies used to disseminate PBRN research findings and cite examples of effective dissemination strategies.
- 11) Effectively apply a research design in the development of a PBRN study concept.
- 12) Systematically and collaboratively engage PBRN members, network leaders, and patients in the development of a PBRN study concept paper and a Specific Aims section.

The PBRM-Cert program is presently training 17 faculty members working in multiple disciplines at academic centers across the U.S. This first training cohort started in September 2015 and will complete the program in June 2016. A list of current trainees and mentors is provided in Appendix D.

Conference Design and Content

This proposal requests resources to support a conference to comprehensively evaluate the effectiveness of the PBRM-Cert program's curriculum, and to use the evaluation findings to revise and refine the curriculum prior to the start of the next training cohort in September 2016. This evaluation will be essential for improving the program by identifying its strengths and weaknesses and revising the curriculum to better prepare trainees as PBRN investigators.

The proposed conference will be held for two full days on July 9-10, 2016. It will take place at the Hyatt Regency Bethesda in Bethesda, MD, which will also be the site of the 2016 North American Primary Care Research Group (NAPCRG) PBRN conference that will begin the day after the proposed conference ends. Holding the evaluation conference in the days immediately prior the NAPCRG PBRN Conference will increase the likelihood of participation in the proposed conference by all program stakeholders. The majority of the program's mentors attend the NAPCRG PBRN Conference each year, and we strongly encourage program trainees to attend as it will be an outstanding learning, networking, and professional development opportunity.

The proposed conference will be attended by 35 people: 17 trainees, 10 mentors (several mentor more than one trainee), 6 Steering Committee members (several are included in the count of mentors), the program coordinator, and a conference assistant. The PI for the present grant application is included in the count of mentors. Two meeting rooms will be needed, as concurrent activities will take place.

The proposed conference has no other sources of support and cannot be conducted without the support that is being requested. Registration fees will not be charged.

Conference Objectives

The objectives of the curriculum evaluation conference are the following:

- 1) Assess trainees' development as PBRN investigators by evaluating their final learning products, understanding trainees' and mentors' perspectives and experiences, and interpreting evaluation data from multidisciplinary perspectives;
- 2) Facilitate a critical review by stakeholders of a revised PBRM-Cert curriculum that is informed by the evaluation data;
- 3) Develop a plan for disseminating the outcomes of the evaluation, what is learned at the conference, and the conference's primary product, the revised PBRM-Cert curriculum.

Conference Agenda

The agenda for the proposed curriculum evaluation conference is the following:

Day 1 July 9, 2016

- 8:00-8:15 Welcome and review of agenda
 8:15-12:00 Fellows' dissemination presentations, Q & A & evaluations (takes place in two meeting rooms)
 12:00-1:00 Lunch on your own
 1:00-3:00 Fellows' focus group
 1:00-3:00 Mentors' focus group
 3:00-3:15 Break
 3:00-5:00 Discussion of findings from written evaluations of program structure and content (data will be collected and analyzed prior to conference)
 Evening: Program leaders use evaluation data from presentations, focus groups, and written evaluations to revise the program's curriculum

Day 2 July 10, 2016

- 8:00-12:00 Fellows' dissemination presentations and Q & A & evaluations (takes place in two meeting rooms)
 1:00-2:00 Lunch on your own
 2:00-3:30 Steering committee leaders present the revised curriculum and obtain input and critique from fellows, mentors, and steering committee members
 3:30-3:45 Break
 3:45-4:45 Participants develop a plan and timeline for dissemination of conference findings
 4:45-5:00 Completion of summative conference evaluations and final comments

Conference Site

The proposed curriculum evaluation conference is planned to take place at the Hyatt Regency Bethesda Hotel in Bethesda, MD. Preliminary discussions have been held with the hotel sales staff and final arrangements will be made once the grant is received, or a suitable alternative site will be chosen that has meeting and lodging facilities similar to those at the Hyatt Bethesda Hotel. The NAPCRG PBRN Conference will also be held at the Hyatt Regency Bethesda, and that conference will begin the day after the proposed conference ends, which will maximize travel efficiency. The Hyatt Bethesda is centrally located in downtown Bethesda, MD and is in close proximity the Washington DC metro system, the Capital Beltway and several major airports. The hotel offers excellent meeting rooms for groups of all sizes including rooms accommodating 25-50 people, which are ideally suited to the proposed conference. Meeting rooms are equipped with Wi-Fi and state-of-the-art audiovisual equipment to facilitate presentations. All meeting rooms and hotel facilities are handicapped accessible, and guest lodging for disabled guests is available on special request. Childcare arrangements can be made through the hotel's concierge. Attendees will have the option to indicate special needs, including dietary restrictions, on the conference registration form. Since there are many restaurants near the hotel, group dining will be available.

Conference Leadership

The proposed evaluation conference will be led by James Werner, PhD, who is the Principal Investigator for this application and Co-Director of the PBRM-Cert program. Dr. Werner's efforts will be supported by the members of the proposed conference's Steering Committee, who along with Dr. Werner also comprise the

Steering Committee for the PBRM-Cert program. All are senior PBRN leaders and are the PI's of the eight AHRQ P30 Centers for Primary Care Practice-Based Research and Learning. An experienced conference coordinator will work closely with Dr. Werner and members of the Steering Committee. A list of Steering Committee members for the proposed conference is provided in Appendix A. Each Steering Committee member has provided a letter of support, provided in Appendix B.

The Principal Investigator, Dr. Werner, is Associate Professor in the Department of Family Medicine and Community Health at Case Western Reserve University (CWRU) in Cleveland, OH. He has worked closely with PBRNs since 1994 when he became the Research Director of the Ambulatory Sentinel Practice Network (ASPN), the country's first national PBRN. At CWRU, he is Director of the NCATS-supported PBRN Shared Resource of the Cleveland Clinical and Translational Science Collaborative CTSA, the NCI-sponsored PBRN Core Facility of the Case Comprehensive Cancer Center, and is PI of the aforementioned AHRQ-sponsored P30 Center. Dr. Werner has been on the CWRU faculty for 11 years, during which time has actively engaged in developing and facilitating research in PBRNs. He oversees a staff of 5 faculty and staff members who develop, maintain, and facilitate research in the 10 PBRNs that he and his team have developed in collaboration with community-based clinicians and other investigators.

Dr. Werner has significant experience conducting PBRN methods research training and evaluation. He has developed and evaluated 3 grant-funded PBRN research training programs, a graduate-level course, and developed and evaluated several program curricula. From 2005-2010, he was Co-Director of a National Cancer Institute (NCI)-funded R25 research training program, *The Practice-Based Research Network (PBRN)-Cancer Control Training Research Fellowship (1R25 CA111898, 2005-2010)*. This training program protected 80% effort for 9 physician fellows for up to 2 years, during which they developed knowledge and skills in PBRN methods, cancer prevention and control research methods, implemented pilot studies, and developed and submitted federal grant applications. Dr. Werner led the evaluation of this program. From 2005-2011, Dr. Werner was Co-Director of two *PBRN Methods Training Programs* funded by the Health Resources and Services Administration (HRSA); one program was conducted at CWRU and the other at the Cleveland Clinic (1D54 HP05444, 2005-2011; 1D54 HP05447, 2005-2008). In total, these programs provided PBRN research training to 32 full-time physicians who each had 10% effort protected for 12 months. Participating physicians engaged in seminars in research methods and developed and implemented PBRN pilot studies. Dr. Werner was the lead evaluator for these programs.

He is experienced in developing curricula for physicians, graduate students, and other adult learners. He is course developer, Director, and Lead Instructor for a 3-credit hour graduate course in PBRN methods, *Principles of Practice-Based Research Networks (MPHP 474)*, which he taught through the Department of Epidemiology and Biostatistics at CWRU in 2009 and 2011. This is the only known graduate-level course in PBRN methods. He developed and led the *Practice-Based Research Network Seminar Series* at CWRU in 2008 and 2011 and conducted its evaluation. This program provided 13 live PBRN methods seminars to more than 70 faculty participants and was sponsored by the Case Comprehensive Cancer Center (NCI; P30CA43703). From 2012-2013 he was contracted by the Substance Abuse and Mental Health Services Administration (SAMHSA) to design, teach, and evaluate a 3-credit hour graduate-level course in integrated primary care behavioral health. He is presently Project Director of a HRSA-sponsored faculty development training program (D55 HP20649, 2010-2016) for which he developed the curriculum and is Lead Instructor and Evaluator.

Steering Committee members will be directly involved in facilitating conference sessions. Two mentoring members will facilitate trainees' presentations, the discussion, and written critiques. Two members who are not mentoring trainees will lead the separate focus groups of the trainees and mentors. Several will work with Dr. Werner to redesign the curriculum the evening of day 1 and solicit input from the group the following day. Two members will assist with the session led by Dr. Werner about dissemination of conference products.

Conference Coordinator

The proposed conference will be coordinated by Amanda Ross, Administrative Director of the PBRN Shared Resource at CWRU that is directed by Dr. Werner. Ms. Ross has extensive experience coordinating conferences, and in 2012 and 2014 coordinated two PBRN Research Festivals in Cleveland that were each

attended by more than 100 participants from across the U.S. In the planning of this proposal, Ms. Ross has been in contact with the NAPCRG Executive Assistant, Jill Haught, who has provided information about the venue and linked Ms. Ross key staff at the site of the proposed conference. Ms. Ross will interface with onsite hotel staff to arrange appropriate facilities and onsite resources, and will coordinate conference registration, travel, lodging, materials printing, and will procure necessary conference supplies.

Evaluation of the PBRM-Cert Program

A logic model for the comprehensive evaluation of the PBRM-Cert program that outlines assessment activities, inputs, and short and long-range outcomes is provided in Appendix E. These activities are designed to provide a multi-stakeholder, multidisciplinary evaluation of the PBRM-Cert program from all stakeholder perspectives. Each assessment activity is designated as formative or summative in the logic model. The goal of formative assessments will be to gather feedback that can be used to guide current improvements in the curriculum. The purpose of summative assessments will be to make judgments about the effectiveness of the program at its conclusion. Ten assessment activities comprise the program evaluation; five are formative assessments and five are summative assessments. The formative assessments will be conducted prior to the evaluation conference and data will be analyzed, summarized and used at the conference. Survey-based summative evaluations will be administered and analyzed prior to the conference, and focus group and discussion-based summative assessments will be conducted during the conference. A long range, annually repeated summative assessment of program completers' career progress and grant funding will be conducted with trainees who complete the program. All of the evaluation activities detailed in the logic model are summarized in the table below.

Formative Evaluation Activities	Summative Evaluation Activities
Webinar ratings by trainees: Trainees complete surveys to rate each webinar-based Learning Seminar	Pre-post learning self-assessments: Compare trainees' knowledge, skills, & interest surveys completed both before and after the program
Mid-point evaluations: Trainees' and mentors' complete online evaluations assessing whether the program is meeting objectives and expectations	Trainees' focus group: Obtain candid input from fellows about their experiences with program, its components, and how it can be improved
Progress Calls: Hold quarterly phone conferences with each trainee-mentor dyad to assess progress	Mentor's focus group: Elicit candid input from mentors about their satisfaction with program in developing PBRN investigators, its components, and how it can be improved
Mentors' evaluations of their trainee via online evaluations of trainee's progress at 3 time points	Evaluation of trainees' presentations: Evaluate trainees' overall learning by rating final presentations at program completion
Critique revised curriculum: multi-stakeholder critical review of revised curriculum	Long range tracking: Annually track career paths and productivity of program completers

Dissemination Activities

On the conference's second day, the Steering Committee will develop a plan to disseminate what was been learned at the conference. A team will be assembled to write a manuscript for publication that may be submitted for publication in the *Annals of Family Medicine*, which frequently publishes conference summaries. Dissemination activities will also include planning to present the program, its evaluation findings, and curricular revisions at the NAPCRG Annual Meeting or the NAPCRG PBRN Conference. The curriculum resulting from the conference will be made freely available on the PBRM-Cert program's website at <http://www.collaborativeohioinquiry.com/pbrn-certificate-program.html>.

Evaluation of the Conference

Following each session of the conference, the session leader will request that participants complete a formative evaluation sheet to rate satisfaction with the session and the extent to which it met objectives. During the final session of the conference, participants will be asked to complete a summative evaluation form that will assess the extent to which the conference met its objectives. Items on this form will permit assessment of overall satisfaction with the conference, the success of the major components of the conference in meeting

its objectives, the content and format of the sessions, the facilities and location, and suggestions for future curriculum evaluation conferences. Questions on both formative and summative evaluations will use Likert scale response options and will also allow for open-ended responses. These evaluation forms will be designed by the members of the PBRM-Cert program Steering Committee. Data will be analyzed and used by the Steering Committee in designing future program evaluation conferences to ensure that future conferences are designed to meet conference objectives and participants' expectations.

Final Input from Conference Participants

Approximately 4 weeks after the curriculum evaluation conference, the Steering Committee will disseminate to participants a report summarizing the recommendations from the conference and will provide the evaluation-informed PBRM-Cert curriculum that resulted. Conference participants will be invited to review the syllabus and provide final comments within 14 days. The curriculum will then be finalized for the next program year and disseminated to all conference participants, P30 program Directors, prospective trainees, and potential mentors, and will be available on the PBRM-Cert program's website.

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