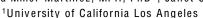


# Improving Depression Care in Nursing Facilities Using Practice Improvement Education (PIE) Through a Mentored Approach

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## **BACKGROUND**

Depression is common among long-term care residents. Recent changes to the Minimum Data Set (MDS 3.0) provide opportunities for improving diagnostic accuracy and depression care quality; yet how best to integrate MDS 3.0 data into quality improvement (01) activities is untested.

#### Funding:

U.S. Department of Health Resources and Services Administration (HRSA/BHPr) for The California Geriatric Education Center (CGEC)

## PROJECT OBJECTIVE

To build nursing home capacity to create and sustain QI processes, focused on depression screening and management, through education, on-site coaching, and technical assistance over a 6-month period by way of:

- Facilitating MDS 3.0 Patient Health Questionnaire (PHQ-9) resident data collection and interpretation related to diagnosis and medication use; and
- Educating, via team meetings, webinars, and technical assistance, to establish OI goals and related approaches. We determined progress through team self-appraisal of attitudes and care processes, mentor assessments, and resident level depression outcomes.

# PIE NURSING HOME SETTINGS

The CGEC Practice Improvement Education (PIE) Project recruited and worked with five nursing home facilities across the State of California.

#### PIF Sites included:

## Asbury Park (Sacramento, CA):

- Champions: Phonechia Thomas, BSW; Greg Tanoy; James Jordan
- Koco Bennet; Atherine Chambers, LVN; Ashkan Javaheri, MD; Pat Nix, RN; Yuen Ping, LVN; Christina Uster, CNA

## Country Villa Broadway (San Gabriel, CA):

- Champion: Sonia Cardenas, NHA, MA
- Oscar Chien, MD; Katherine Robles, RN; Katy Liang, RN; Li Fang Jou, LVN; Grace Quintana; Tamar Murphy

# Country Villa Plaza (Santa Ana, CA):

- Champions: Harmony Chavez, SWF; Rebecca Forest, NHA, MHCA
- Samir Azzam, MD; Melissa Delgado, LVN; Josephine Drew, RN; Zorana Gonzales, RN; Melanie Nassar, LVN; Wendy Valencia

## Edgemoor DPSNF (Santee, CA):

- Champions: Rebecca Ferrini, MD, MPH, CMD; Robert Gibson, PhD, JD
- Noel Avilucea; Chrystyne Curry, LMFT; Veronica McBride, MA; Anne Monaco, CTRS; Soyoung Phaymany, RN

# Fredericka Manor Care (Chula Vista, CA):

- Champions: Judie Harrington, RN, BSN; Loraine Wiencek, INHA
- Doug Greiner; Ron Hannah, LVN; Tess Liangco; Lida Luansing, RN; Julia Sink, RN; Vernon White, MD

CGEC Activities funded by: U.S. Department of Health and Human Services, HRSA, UB4HP19202

Across the five nursing homes, 35 staff members from the original teams participated in all PIE activities. Including staff turn over, a total of 41 nursing home staff were exposed to some training on QI in long term care setting.

TABLE 1: PIE Baseline & Descriptive Process Data (Summary April 2013)						
	Overall	Site 1	Site 2	Site 3	Site 4	Site 5
Nursing Home Facility Characteristics						
# beds	709	145	59	174	192	139
# residents at baseline	615	106	55	166	191	97
Participants in 7/2011 CALTCM Training	12	4	3	3	1	1
"Original" Nursing Home Staff Team Comp	osition (ba	sed on atte	endance at	Mentor Vis	it #1)	
Doctors	4	0	1	1	1	1
Nurses	15	3	3	3	3	3
Social Workers	7	1	1	1	1	3
Administrators	5	2	1	1	0	1
Misc	4	0	1	1	1	1
Total Original PIE Staff Team Members	35	6	7	7	6	9
TEAM RETENTION - Number original team members retained [n (%)] (at Mentor Visit 1 AND at Mentor Visit 3)	24 (68.6%)	4 (66.7%)	6 (85.7%)	3 (42.9%)	3 (50%)	8 (88.9%)
TEAM COHESION - Proportion of "original" team present at ALL visits (1,2,3)	21/35= 60.0%	2/6= 33.3%	5/7= 71.4%	3/7 42.9%	3/6= 50%	8/9= 88.9%
TEAM GROWTH - Number team members gained at Visit 3 (since Visit 1)	6	2	0	2	2	0

# PHQ-9 Facility Data From MDS 3.0 Assessments and Administrative Data Table 2. Cross Site PIE Parelling Parelling Blood Physical Public Parelling Staff Assessed Course

Baseline F	PHQ-9 Score	Antidepressa	ant Medication	Depression Diagnosis		
Range	N (%)	Yes N (%)	No N (%)	Yes N (%)	No N (%)	
10+	20 (3.80)	10 (50.0)	10 (50.0)	12 (60.0)	8 (40.0)	
5-9	78 (14.8)	34 (43.6)	44 (56.4)	30 (38.5)	48 (61.5)	
0-4	412* (78.2)	131 (31.9)	279 (67.9)	151 (36.7)	259 (63.0)	
Score: 99	17 (3.23)	10 (58.8)	7 (41.2)	10 (58.8)	7 (41.2)	
TOTAL	527	5	525		525	

Note: Two additional data sets to be analyzed (Jan 2013 and May 2013) \*2 residents missing medication and diagnosis data

			Series	

I. PIE Project Overview & Using Your Depression	IIII. Treatment Initia
Data (6/27/12) PIE Project components, goals, objectives	Team quality improven
and the importance of examining resident level data to	Activation in Long Tern
identify potential areas for quality improvement.	evidence-base, key cor
http://copper.adobeconnect.com/p5r20eulec7/	highlighted an interact
	ctudy/problem ccenario

#### II. Identification and Diagnosis of Depression (8/20/12) Team approaches for depression care including team structure and team process.

http://copper.adobeconnect.com/p97tvgttey2/

III. Treatment Initiation & Management (9/10/12)
Team quality improvement strategies, such as Behavioral
Activation in Long Term Care settings, identifying the
evidence-base, key concepts/practical application and
highlighted an interactive role play with a case
study/problem scenario.

IV. Treatment Management & Monitoring (10/26/12) Depression management and monitoring options, team quality improvement strategies and ideas for incorporating PIE activities into future Quality Assurance Practice Improvement (QAPI) initiatives.

http://copper.adobeconnect.com/p1kenr4votl/

V. Accomplishments, Lessons Learned & Sustainability (1/10/13) Capstone webinar – summary project activities and outcomes. Provided the opportunity for sites to report on their Quality Improvement projects, their approach to managing challenges and their key accomplishments.

# **METHODS**

## Development:

- Conducted monthly PIF Committee meetings
- Developed PIE Webinar Series and mentor visit quide

## Implementation:

- Facilitated three interprofesssional mentor pair visits with established NH PIE Implementation Teams to:
  - · establish facility-level PIE goals
  - · establish team processes and "rules of conduct"
  - · facilitate team development
  - educate, model, and practice QI methods
  - facilitate data collection and problem solving
  - focus teams on using data to identify and solve QI problems

## Program Evaluation:

- · Program Level Data Collection
- Nursing Home Staff Pre-Post Survey (team self appraisal of attitudes and care processes, competency levels)
- attitudes and care processes, competency levels
   Resident Level Data Collection (PHO-9 score and
- Resident Level Data Collection (PHQ-9 score and Behavioral Activation activities)

# **OUTCOMES**

#### Webinars:

- Average participation rate was 59% (range from 37-78%).
   Webinars grounded in four competencies from the
- Partnership for Health in Aging (PHA) Multidisciplinary Competencies in the Care of Older Adults (2010).

#### **Mentoring Visits:**

- Mentors reviewed site specific PHO-9 scores with staff during visits and data were used, for example, to identify residents with PHO-9 scores greater than 10 who were not treated and are potential candidates for Behavioral Activation
- Quantitative and qualitative data was collected to demonstrate project gains and changes with each team.

## Nursing Home Staff Outcomes:

- Awaiting follow-up post survey data (May 2013) to examine changes in self-reported competency in depression care, attitudes toward team care, and assessment of team fitness.
- Each team completed Implementation Planning for Depression Care in Nursing Home Assessment.
   Documented considerable gains within some domains (Treatment Planning & Delivery, Treatment Based on Outcomes, Relapse Prevention, and Setting, Staffing & Supervision).

## **Resident Level Outcomes:**

 Resident level data collection including PHQ-9 score and Behavioral Activation activities is ongoing.

# CONCLUSIONS / LESSONS LEARNED

- NH characteristics do not predict interest in Quality Improvement and Commitment to team processes
- Structured educational mentoring in the context of NH team building is feasible
- Interdisciplinary NH teams can use data to identify problems and generate solutions
- NH team facilitation creates new learning and solutions to quality challenges
- This approach may be applicable to other nursing home clinical conditions