Department of Higher Education and Workforce Development	**HB Section(s):** ___3.270___
Program Name: Division of Four-year Colleges and Universities	
Program is found in the following core budget(s): University of Missouri - Extension for Community Healthcare Outcomes	

1a. What strategic priority does this program address?

Access and success

1b. What does this program do?

Show-Me Extension for Community Healthcare Outcomes (ECHO) provides comprehensive, best-practice care to patients with complex health conditions, in their local community. Show-Me ECHO facilitates collaboration between specialty and primary care that expands access to best-practice medical care across Missouri. It links expert specialist teams at an academic 'hub' with primary care clinicians in local communities – the 'spokes' of the model. Together, they participate in regularly scheduled Show-Me ECHO clinics, which are virtual grand rounds, combined with mentoring and patient case presentations and discussions.

Show-Me ECHO uses videoconferencing to connect a group of community providers to an multidisciplinary group of specialists around a specific disease state or condition. The community providers learn about the disease state or condition and with the mentorship of the specialists, they become a regional center of excellence that can help provide specialty care to patients who might not otherwise be able to receive care. Telemedicine increases access to specialty care, but does not increase capacity of specialty care. Show-Me ECHO increases the number of providers who will treat complex conditions. Relationships are created between specialists and community providers so that patients with chronic conditions can stay in their community for care without being referred to specialists.

Show-Me ECHO is a replication of the Project ECHO program developed at the University of New Mexico. Project ECHO is a lifelong learning and guided practice model that revolutionizes medical education and exponentially increases workforce capacity to provide best-practice specialty care and reduce health disparities.

2a. Provide an activity measure(s) for the program.

The Show-Me ECHO program is growing. ECHO topics included: Asthma, Asthma Care & Education, Asthma Care Accelerator, Autism, Community Health Worker, Child Psych, Pain Management, Dermatology, Healthcare Ethics, Hepatitis C, Opioid Use Disorder, HIV, Oral health, High-Risk OB, Neonatal Abstinence Syndrome, Developmental Disabilities, Hypertension, Kidney Disease, Diabetes, and Trauma Informed Schools.

Calendar Year	Total Participation	Unique Participants	Number of Cases
2014	38	26	2
2015	802	252	93
2016	1748	515	246
2017	2594	804	334
2018	3914	1139	355
2019	5036	1510	387

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2b. Provide a measure(s) of the program's quality.

In the ECHO project we measure self-efficacy of the providers. Self-efficacy is defined by Albert Bandura as an individual's belief in his or her ability to organize and execute goals. The following chart is a sample of data from the Kidney ECHO.

*On a scale of 0 (not at all confident) to 10 (very confident),
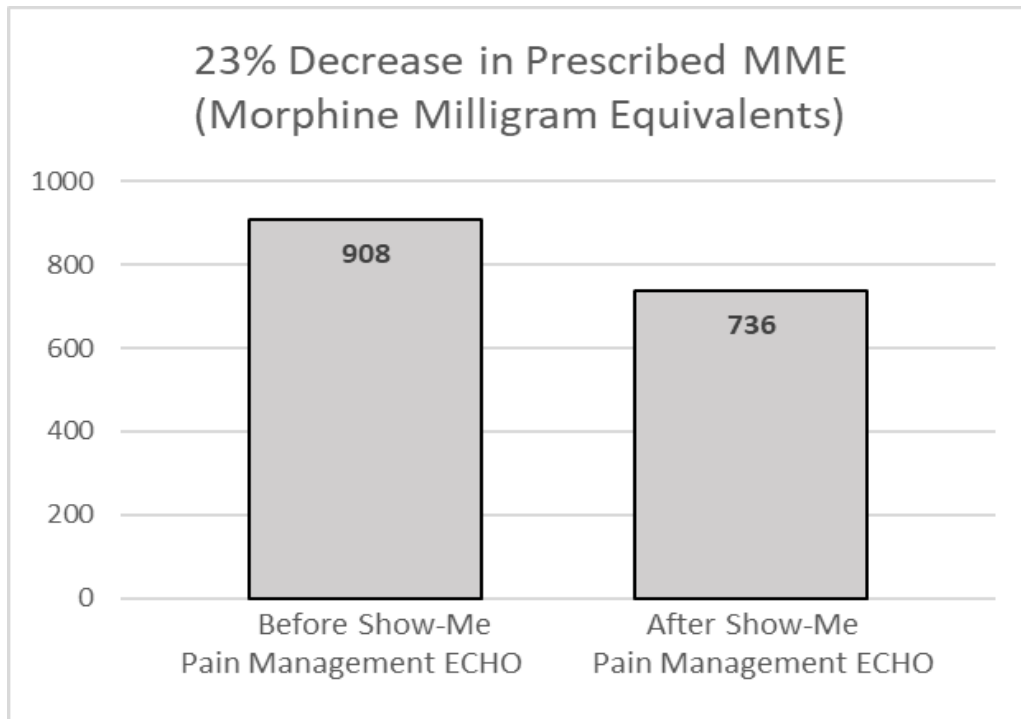I am confident in my ability to...*

*...identify and treat
kidney disease.*

*...help my patients understand
instructions about medicine
and treatment for kidney disease.*

**+63%
in 6**

Jun 2019 mean
4.3

Dec 2019 mean
7.0

n=7 observations
st. deviation 2.7

n=11 observations
st. deviation 2.2

**+70%
in 6 months**

Jun 2019 mean
4.3

Dec 2019 mean
7.3

n=5 observations
st. deviation 3.1

n=14 observations
st. deviation 2.8

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2c. Provide a measure(s) of the program's impact.

One goal of the Show-Me ECHO program is to increase the use of best practices. The Centers for Disease Control and Prevention recommends reducing or discontinuing opioid dosages where possible. Medicaid claims indicating the amount of Morphine Milligram Equivalents (MME) prescribed prior to and after attending the Show-Me Pain Management ECHO.

23% decrease in Morphine Milligram Equivalents prescribed

23% Decrease in Prescribed MME (Morphine Milligram Equivalents)

Before Show-Me Pain Management ECHO: 908
After Show-Me Pain Management ECHO: 736

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2d. Provide a measure(s) of the program's efficiency.

The Show-Me ECHO program's efficiencies lie in it's virtual nature. In calendar year 2018, there were 1,139 participants, 25 Federally Qualified Health Care organizations and 342 individual health care sites with participants. The maps below show where the Show-Me ECHO participants come from. Grey counties indicate provider participation.
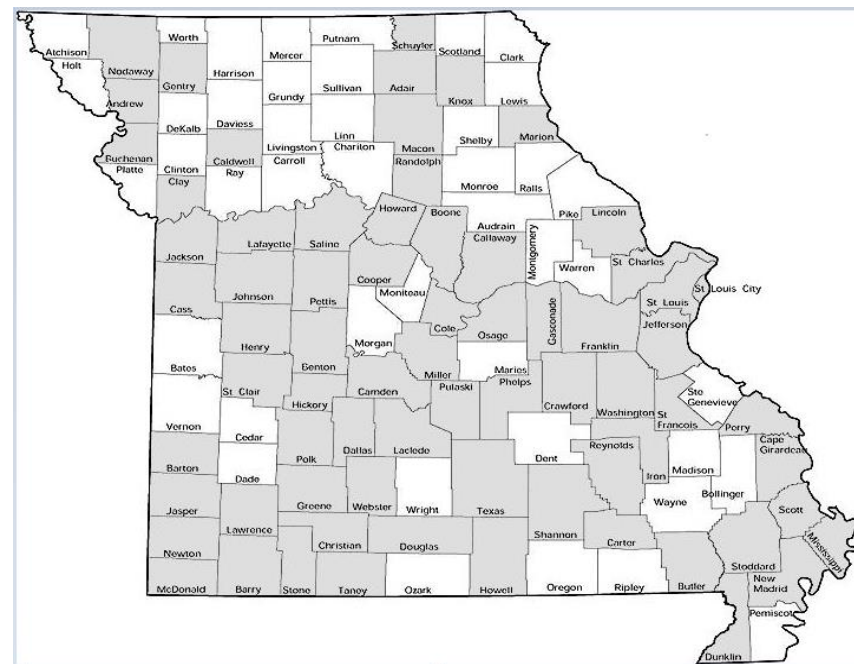
Calendar Year 2017
67 counties plus the City of St. Louis

Calendar Year 2018
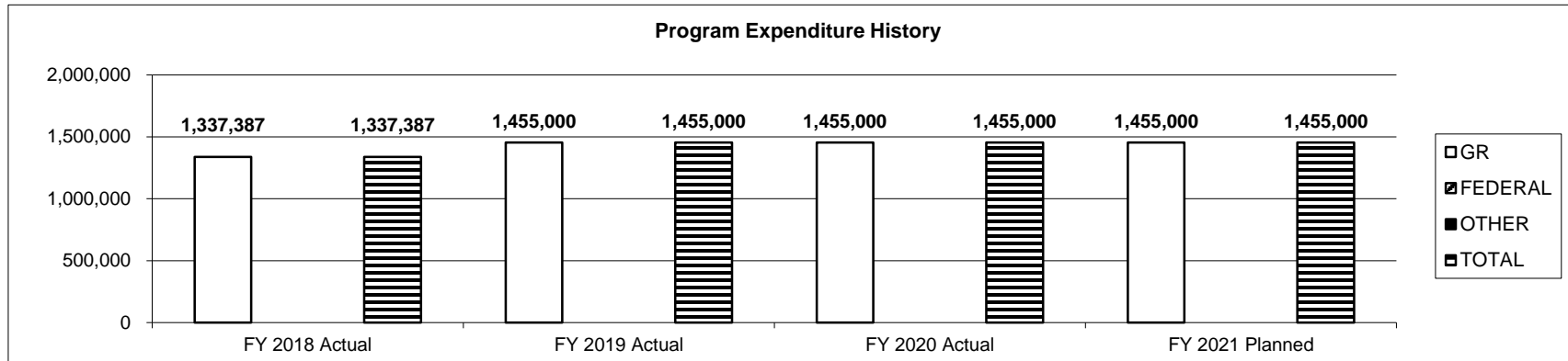70 counties plus the City of St. Louis

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3. Provide actual expenditures for the prior three fiscal years and planned expenditures for the current fiscal year. (*Note: Amounts do not include fringe benefit costs.*)

Program Expenditure History

Net of 3% statutory reserve in all years and expenditure restrictions in FY 2018.

4. What are the sources of the "Other " funds?

None

5. What is the authorization for this program, i.e., federal or state statute, etc.? (Include the federal program number, if applicable.)

Section 191.1140, RSMo.

6. Are there federal matching requirements? If yes, please explain.

No

7. Is this a federally mandated program? If yes, please explain.

No