

Higher medical home performance rating of community health centers linked with higher operating cost

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Federally funded community health centers with higher patient-centered medical home ratings on measures such as quality improvement had higher operating costs, according to a study appearing in *JAMA*. This study is being published early online to coincide with its presentation at the Annual Research Meeting of AcademyHealth.

"The patient-centered [medical home](#) (PCMH) is a model of care characterized by comprehensive primary care, quality improvement, care management, and enhanced access in a patient-centered environment. The PCMH is intuitively appealing and has improved clinical and organizational performance in several early studies, leading a broad range of stakeholders to call for its adoption. It is critical to understand the cost of the PCMH from the perspective of individual clinics. Such cost data are essential for practices to make informed decisions to adopt the PCMH and for policy makers and administrators to design financially sustainable medical home models," according to background information in the article. "Little is known about the cost associated with a health center's rating as a PCMH."

Robert S. Nocon, M.H.S., of the University of Chicago, and colleagues examined the association between PCMH rating and operating cost in [primary care](#) practices, specifically among federally funded health centers. The analysis consisted of a cross-sectional study of PCMH rating and operating cost in 2009. PCMH rating was assessed through

surveys of health center administrators of all 1,009 Health Resources and Services Administration-funded community health centers. The survey provided scores from 0 (worst) to 100 (best) for total PCMH score and 6 subscales: access/communication, care management, external coordination, patient tracking, test/referral tracking, and quality improvement. Costs were obtained from the Uniform Data System reports submitted to the Health Resources and Services Administration. The primary measured outcomes were operating cost per physician full-time equivalent, operating cost per patient per month, and medical cost per visit. Six hundred sixty-nine health centers (66 percent) were included in the study sample, with 340 excluded because of nonresponse or incomplete data. The final sample of [health centers](#) represents 5,966 full-time equivalent physicians, who cared for more than 12.5 million patients nationally in 2009.

The average total PCMH score for the study sample was 60, with a low score of 21 and a high of 90. "In multivariate models that used total PCMH score as the medical home measure, higher total PCMH score was associated with higher operating cost per patient per month. For the average health center in our study sample, a 10-point higher total PCMH score (i.e., a score of 70 instead of 60 on the 100-point scale) was associated with a \$2.26 (4.6 percent) higher operating cost per patient per month, assuming all other variables remain constant," the authors write.

The researchers also found that in multivariate analyses that used PCMH subscale scores, a 10-point higher score was associated with higher operating cost per physician full-time equivalent for patient tracking (\$27,300) and quality improvement (\$32,731) and higher operating cost per patient per month for patient tracking (\$1.06) and quality improvement (\$1.86). "A 10-point higher PCMH sub-scale score was associated with lower operating cost per physician full-time equivalent for access/communication (\$39,809)."

The authors write that the magnitude of health center cost effect in this study is significant. "The \$2.26 (4.6 percent) higher operating cost per patient per month associated with a 10-point higher total PCMH score would translate into an annual cost of \$508,207 for the average health center (\$2.26 per patient per month for 18,753 patients during 12 months). The cost associated with higher PCMH function is large for a health center, but that cost is relatively small compared with the potential cost savings from averted hospitalization and emergency department use observed in some preliminary PCMH studies."

"We believe payment for the medical home should be evidence based and grounded in observations of costs that accrue to each stakeholder in the health care system. Without such data, aggressive pressure to reduce health care cost is more likely to erode PCMH payment over time. Strong quantitative documentation of the actual practice cost of higher PCMH rating could provide the basis for evidence-based financial incentive structures that would be useful as the health care system moves toward more integrated care models such as the accountable care organization. It will only be through effective design and implementation of such financial mechanisms that the PCMH can be sustained."

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