

## **Regional decolonization aids multidrugresistant organism-related outcomes**

April 1 2024, by Lori Solomon



A regional collaborative involving universal decolonization in long-term care facilities and targeted decolonization among hospital patients in



contact precautions is associated with better multidrug-resistant organism (MDRO)-related outcomes, according to a study <u>published</u> online April 1 in the *Journal of the American Medical Association*.

Gabrielle M. Gussin, from the University of California Irvine School of Medicine, and colleagues evaluated whether implementation of a decolonization collaborative is associated with reduced regional MDRO prevalence, incident clinical cultures, infection-related hospitalizations, costs, and deaths. The analysis included data from 35 participating facilities (16 hospitals, 16 nursing homes [NHs], and three long-term acute care hospitals [LTACHs]).

The researchers found that compared with baseline, decolonization was associated with a decrease in mean MDRO prevalence (NHs: 63.9 to 49.9%; LTACHs: 80.0 to 53.3%; odds ratio for both, 0.48; hospitalized patients in contact precautions: 64.1 to 55.4%; odds ratio, 0.75). Mean monthly incident MDRO clinical cultures changed from 2.7 to 1.7 among participating NHs, from 1.7 to 1.5 among nonparticipating NHs (group × period interaction reduction, 30.4%), and from 25.5 to 25.0 among participating hospitals and 12.5 to 14.3 among nonparticipating hospitals (group × period interaction reduction, 12.9%). Benefits were seen for infection-related hospitalizations, associated hospitalization costs, and associated hospitalization deaths.

"The success of SHIELD-OC [Shared Healthcare Intervention to Eliminate Life-threatening Dissemination of MDROs in Orange County] in reducing MDRO carriage, infections, hospitalizations, and associated costs and deaths led to a regional NH incentive program supported by CalOptima, the sole Medicaid provider," the authors write.

Antiseptic supplies for the study were provided by Stryker (Sage



Products), Xttrium Laboratories, and Medline Industries.

**More information:** Gabrielle M. Gussin et al, Reducing Hospitalizations and Multidrug-Resistant Organisms via Regional Decolonization in Hospitals and Nursing Homes, *JAMA* (2024). DOI: <u>10.1001/jama.2024.2759</u>

Christopher J. Crnich, Controlling Multidrug-Resistant Organisms Across Patient-Sharing Networks, *JAMA* (2024). <u>DOI:</u> <u>10.1001/jama.2024.0267</u>

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