

Cancer Screening: Patient Navigation Services to Increase Screening for Cervical Cancer

Summary Evidence Table

Abbreviations Used in This Document

- Intervention components:
 - CR: client reminder
 - GE: group education
 - OE: one-on-one education
 - RSB: reducing structural barriers
 - SM: small media
- Cancer types
 - BC: breast cancer
 - CC: cervical cancer
 - CRC: colorectal cancer
- Screening tests
 - Pap: Papanicolaou test
- Others
 - CHW: community health worker
 - FQHC: federally qualified health center
 - HS: high school
 - N/A: not applicable
 - NR: not reported
 - PCP: primary care provider
 - Pct pts: percentage points
 - PN: patient navigator
 - RCT: randomized control trial
 - USPSTF: United States Preventive Services Task Force

Notes:

- **Suitability of design** includes three categories: greatest, moderate, or least suitable design. [Read more](#)
- **Quality of Execution** – Studies are assessed to have good, fair, or limited quality of execution. [Read more](#)
- **Race/ethnicity** of the study population: The Community Guide only summarizes race/ethnicity for studies conducted in the United States.

Patient Navigation Services to Increase Screening for Cervical Cancer — Summary Evidence Table

Study	Intervention Characteristics	Intervention Deliverer Details	Population Characteristics	Results
<p>Author year: Braun et al., 2015</p> <p>Study design: Individual RCT</p> <p>Suitability of design: Greatest</p> <p>Quality of execution: Fair</p>	<p>Location: Moloka'i, Hawaii, US</p> <p>Population density: rural</p> <p>Setting: community and clinic</p> <p>Intervention duration: 48 months</p> <p>Intervention details: Type of cancer addressed: BC, CC, and CRC</p> <p>Type of services provided: CR + OE + RSB, appointment scheduling assistance + RSB, childcare assistance + RSB, reduce admin barriers + RSB, transportation assistance</p> <p><i>CR:</i> mailed reminders to patients due for a cancer screening <i>OE:</i> outreach education <i>RSB, appointment scheduling assistance:</i> made appointments and follow-up appointments for patients <i>RSB, childcare assistance:</i> made arrangements to take care of family while participants were at appointment <i>RSB, reduce admin barriers:</i> communicated with providers and completed paperwork <i>RSB, transportation assistance:</i> arranged transportation to appointments</p> <p>Intervention intensity: 2 or more contacts</p> <p>Control group: alternative education on nutrition and</p>	<p>Type of deliverers engaged, and services delivered: CHWs (lay navigators): all intervention components</p> <p>Training: an initial 48-hour evidence-based navigator training program, with quarterly continuing education sessions</p> <p>Supervision: initial supervision by nurse, later by other healthcare professionals</p> <p>Matching to population: recruited from local community, one Hawaiian and one Filipino</p> <p>Educational background: NR</p> <p>Payment: NR</p> <p>Methods used to interact with participants: Both: CR by phone or mail and other services face-to-face</p>	<p>Population of focus: Asian American or Pacific Islander living in Hawaii</p> <p>Eligibility criteria: Medicare beneficiaries residing in Moloka'i, Hawaii</p> <p>Sample size: Intervention: 242 Control: 246</p> <p>Attrition: N/A</p> <p>Demographics for intervention group (for all cancer types): <i>Age, mean:</i> 68 years <i>Gender:</i> 63% female; 47% male <i>Race/Ethnicity:</i> 50% Asian; 42% Native Hawaiian; 8% other <i>Employment:</i> NR <i>Income:</i> NR <i>Education:</i> 39% <HS; 33% HS; 28% >HS <i>Insurance:</i> 100% insured <i>Established source of care:</i> NR <i>Baseline screening of intervention group:</i> 25% for any CRC screening</p>	<p>Screening test: pap test</p> <p>Up to date or repeat screening: up to date</p> <p>Self-report or medical record: self-report</p> <p>Follow-up Time: NR</p> <p>Results: Pap test: Intervention: Pre: 38/128 = 29.7% Post: 79/128 = 61.7% Change: 32.0 pct pts</p> <p>Control: Pre: 47/132 = 35.6% Post: 56/132 = 42.4% Change: 6.8 pct pts</p> <p>Absolute difference: +25.2 pct pts Relative difference: +64.5%</p>

Study	Intervention Characteristics	Intervention Deliverer Details	Population Characteristics	Results
	<p>relevant cancer education material from another healthcare facility on island</p>			
<p>Author year: Dietrich et al., 2006</p> <p>Study design: Individual RCT</p> <p>Suitability of design: Greatest</p> <p>Quality of execution: Fair</p>	<p>Location: New York City, New York, US</p> <p>Population density: urban</p> <p>Setting: community and clinic (FQHC)</p> <p>Intervention duration: 18 months</p> <p>Intervention details: Type of cancer addressed: BC, CC, and CRC</p> <p>Type of services provided: OE + RSB, appointment scheduling assistance + RSB, reduce admin barriers + RSB, transportation assistance + SM</p> <p><i>OE:</i> trained prevention care manager provided information on screenings and barriers to care <i>RSB, appointment scheduling assistance:</i> prevention care manager helped with scheduling screening <i>RSB, reduce admin barriers:</i> for participants who reported difficulty communicating with their physicians, cards listing overdue screenings were sent as communication tools; provided direction to screening facilities <i>RSB, transportation assistance:</i> helped participants to find means of transportation to appointments</p>	<p>Type of deliverers engaged, and services delivered: Prevention care manager: all intervention components</p> <p>Training: 7 hours of training, including review of USPSTF recommendations, barriers to cancer screening, and role-playing telephone calls</p> <p>Supervision: calls to patients monitored to ensure quality and consistency; call logs reviewed at monthly meetings to ensure intervention fidelity</p> <p>Matching to population: based on patient language</p> <p>Educational background: mostly college graduates</p> <p>Payment: NR</p> <p>Methods used to interact with participants: Remote: mail and telephone</p>	<p>Population of focus: Females receiving care from FQHCs serving communities with high proportions of people who were from historically disadvantaged groups and had lower incomes</p> <p>Eligibility criteria: Females 50-69 years of age who were overdue for at least 1 cancer screening, were patients of the clinic for at least 6 months, had no plan to move or change clinic for 15 months, and spoke English, Spanish, or Haitian Creole</p> <p>Exclusion: females who were acutely ill or currently receiving cancer treatment</p> <p>Sample size: Intervention: 696 Control: 694</p> <p>Attrition: 1%</p> <p>Demographics for intervention group: <i>Age, mean:</i> 58 years <i>Gender:</i> 100% female <i>Race/Ethnicity:</i> NR <i>Employment:</i> NR <i>Income per year:</i> based on median income at participants' zip code: 34%</p>	<p>Screening test: pap test</p> <p>Up to date or repeat screening: up to date</p> <p>Self-report or medical record: medical records</p> <p>Follow-up Time: 3 months</p> <p>Results: Pap test: Intervention: Pre: 494/696 = 71.0% Post: 543/696 = 78.0% Change: 7.0 pct pts</p> <p>Control: Pre: 486/694 = 70.0% Post: 486/694 = 70.0% Change: 0.0 pct pts</p> <p>Absolute difference: +7.0 pct pts Relative difference: +9.9%</p>

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Study	Intervention Characteristics	Intervention Deliverer Details	Population Characteristics	Results
	<p><i>SM</i>: prevention care manager sent accurate information about screening via mail</p> <p>Intervention intensity: 2 more contacts; series of telephone support calls</p> <p>Control group: usual care</p>		<p><\$25,000; 39% \$25,000-\$40,000; 27% >\$40,000 <i>Education:</i> NR <i>Insurance:</i> 93% insured; 5% uninsured; 2% unknown <i>Established source of care:</i> 100% go to the clinics <i>Baseline screening of intervention group:</i> 71% up to date with pap test</p>	
<p>Author year: Fernandez-Esquer et al., 2020</p> <p>Study design: Pre-post with comparison</p> <p>Suitability of design: Greatest</p> <p>Quality of execution: Fair</p>	<p>Location: Houston, Texas, US</p> <p>Population density: urban</p> <p>Setting: community (FQHC)</p> <p>Intervention duration: 36 months</p> <p>Intervention details: Type of cancer addressed: BC and CC</p> <p>Type of services provided: OE1 or GE + OE2 + RSB, appointment scheduling assistance + RSB, reduce admin barriers + SM</p> <p><i>OE1 or GE:</i> brief educational sessions delivered one-on-one or in small groups by Vietnamese lay health workers to their nail salon peers <i>OE2:</i> education and booster education; counseling on setting up appointment <i>SM:</i> locally-developed cancer screening brochures given to each nail salon worker at the enrolled venues. Navigation services only provided to</p>	<p>Type of deliverers engaged, and services delivered: Lay health workers: OE1 or GE PN: navigation services</p> <p>Training: NR</p> <p>Supervision: NR</p> <p>Matching to population: NR</p> <p>Educational background: NR</p> <p>Payment: NR</p> <p>Methods used to interact with participants: Both: face-to-face and telephone</p>	<p>Population of focus: Vietnamese American females working in nail salons, majority with annual income <\$40,000</p> <p>Eligibility criteria: Aged 18 years or older, self-identified as Vietnamese, located in the Houston, Texas area for at least 3 years, and currently working in a nail salon in Houston in a neighborhood with a dense population of Asian businesses and residences</p> <p>Sample size (for both BC and CC): Intervention: 186 Control: N/A</p> <p>Attrition (for both BC and CC): 10.2%</p> <p>Demographics for intervention group (for both BC and CC): <i>Age, mean:</i> 47 years <i>Gender:</i> 100% female <i>Race/Ethnicity:</i> 100% Asian</p>	<p>Screening test: pap test</p> <p>Up to date or repeat screening: up to date</p> <p>Self-report or medical record: self-reported</p> <p>Follow-up Time: 5 months</p> <p>Results: Pap test: Intervention: Pre: 0% Post: 31/37 = 83.8% Change: 83.8 pct pts</p> <p>Control: Pre: 0% Post: 14/28 = 50.0% Change: 50.0 pct pts</p> <p>Absolute difference: +33.8 pct pts Relative difference: +67.6%</p>

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	<p>participants not up to date with screening: <i>RSB, appointment scheduling assistance:</i> outreach coordinator set up appointment <i>RSB, reduce admin barriers:</i> taught participants how to pose questions to the provider, requested info about screening costs, and got screening results, assisted with paperwork</p> <p>Intervention intensity: 1 or more contacts</p> <p>Comparison group: OE1 or GE + SM</p>		<p><i>Employment:</i> 100% nail salon employees <i>Income:</i> 46% <\$20,000; 43% \$20,000-\$39,999; 11% ≥\$40,000 <i>Education:</i> 26% grade 9 or less; 55% grade 10-12; 18% some college or more <i>Insurance:</i> 25% private; 3% Medicare; 2% self-pay; 23% county-level public insurance; 29% marketplace insurance; 17% no insurance; 2% other <i>Established source of care:</i> 75% have PCP <i>Baseline screening of intervention group:</i> 0%</p>	