



Development of the AHRQ Medical Office Survey on Patient Safety Culture

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Objectives



- Describe the development of the AHRQ Medical Office Survey on Patient Safety Culture (Medical Office SOPS)
- Discuss the pilot test of the survey with staff and providers in outpatient medical offices in the U.S.

Background



- Hospital Survey on Patient Safety Culture (HSOPS) released November 2004
www.ahrq.gov/qual/patientsafetyculture/
- Developed by Westat, funded by AHRQ
- Medical office survey released January 2009
 - Developed in response to need for a patient safety culture survey for outpatient medical offices

Medical Office SOPS



- Same development steps as the hospital survey
 - Reviewed literature & existing surveys
 - Conducted background interviews with medical office providers and staff
 - *Staff less familiar with term “patient safety”*
 - Identified key areas of safety culture in the medical office setting
 - Developed survey items
 - Conducted cognitive testing of survey items
 - Obtained input from over two dozen researchers & stakeholders
 - Pilot tested the survey, analyzed data & finalized the survey

Goals of the Survey



To enable medical offices to:

- Raise staff awareness about patient safety
- Assess the current status of patient safety culture
- Use for internal patient safety and quality improvement
- Evaluate the impact of patient safety and quality improvement initiatives
- Track patient safety culture change over time

Hospital SOPS Dimensions



- 42 items assess 12 dimensions of patient safety culture
 1. Communication openness
 2. Feedback & communication about error
 3. Frequency of event reporting
 4. Handoffs & transitions
 5. Management support for patient safety
 6. Nonpunitive response to error
 7. Organizational learning--continuous improvement
 8. Overall perceptions of patient safety
 9. Staffing
 10. Supervisor/manager expectations & actions promoting patient safety
 11. Teamwork across units
 12. Teamwork within units
 - Patient safety “grade” (Excellent to Poor)
 - Number of events reported in past 12 months
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Medical Office SOPS Dimensions



- Different from the hospital survey—
dimensions specific to medical offices
 1. Patient safety and quality issues
 - Access to care
 - Charts/medical records
 - Medical equipment
 - Medication
 - Diagnostics & Tests
 2. Information exchange with other settings
 3. Office processes and standardization
 4. Work pressure and pace
 5. Patient care tracking/follow-up
 6. Staff training

Medical Office SOPS Dimensions



- Dimensions similar to the hospital survey—
 7. Teamwork
 8. Organizational learning
 9. Overall perceptions of patient safety & quality
 10. Owner/managing partner/leadership support for patient safety
 11. Communication about error
 12. Communication openness

Medical Office Pilot Test



- Pilot tested in 182 medical offices with 4,174 provider & staff respondents
- Worked with partners:
 - John Hickner, MD—Cleveland Clinic
 - AAFP National Research Network
 - AAP Pediatric Research in Office Settings
 - MGMA
 - Allina Hospitals and Clinics
 - Baylor Health Care System—HealthTexas Provider Network
 - Cleveland Clinic
 - Michigan State University Health Team
 - Other health system

Pilot Test Medical Office Characteristics



- 63% single specialty / 37% multispecialty
- 37% family practice/family medicine
27% pediatrics
23% internal medicine
10% OB/GYN or GYN
- Office Sizes (# of providers & staff)
 - 3 to 10 15%
 - 11 to 20 30%
 - 21 to 30 20%
 - 31 or more 35%

Pilot Test Medical Office Characteristics



- 69% had only one office location
- Ownership
 - 59% - a hospital or health care system
 - 25% - physicians or providers, or both
 - 14% - a university, or academic medical institute
- Use of electronic tools
 - 21% fully implemented electronic ordering of meds
 - 45% in the process of implementing
 - 32% fully implemented electronic medical records
 - 37% in the process of implementing

Pilot Test Survey Administration



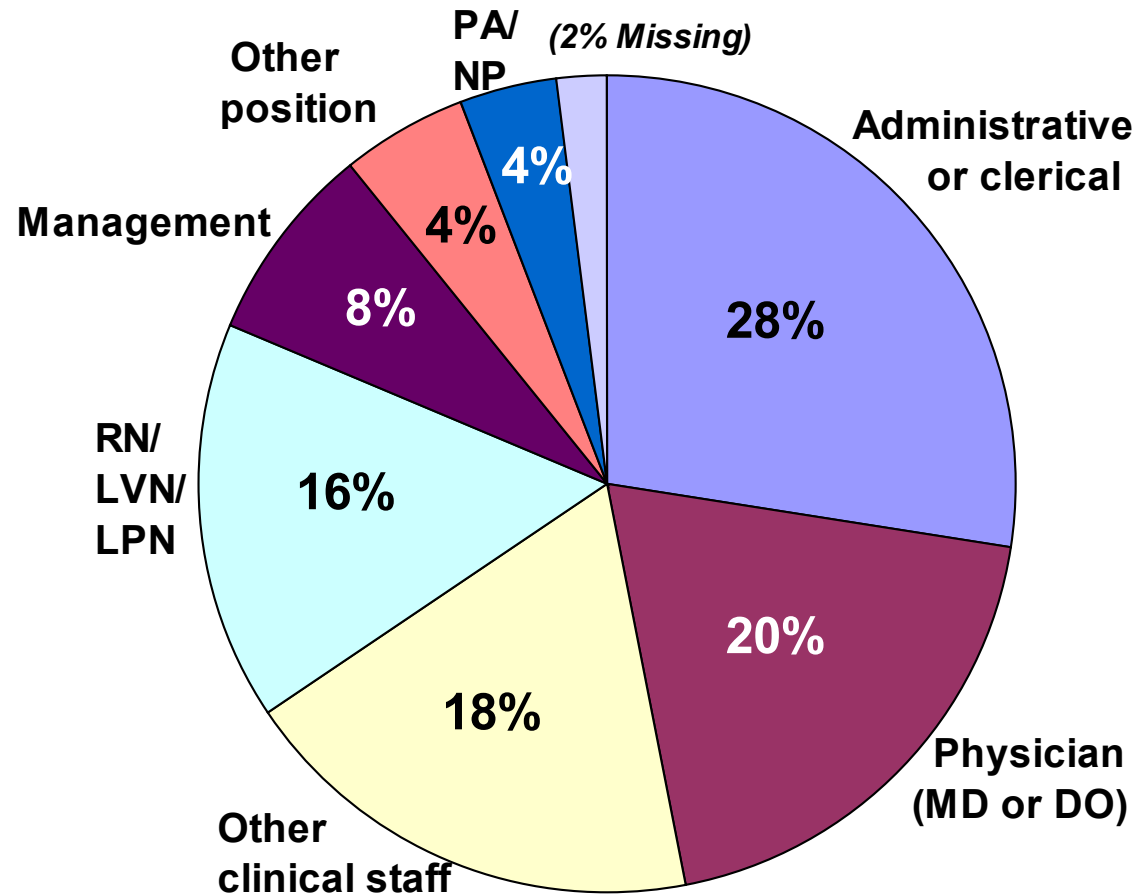
- Administered to all providers and staff
- 71% used paper surveys; 29% used Web surveys
 - One health system had experience with web-based employee surveys
 - *Recommend paper survey administration for high response rate (unless office has previous positive experience with web surveys)*



Pilot Test Response Rates and Number of Respondents

- Overall response rate = 70% (4,174 / 5,931)
- Paper response rate = 78% vs. Web = 65%
- Average number of respondents per office = 23 (range: 5 to 92)
- Average office response rate = 74% (range: 33% to 100%)

Staff Positions of Respondents



Statistical Analysis of Pilot Results



- Pilot data used to conduct psychometric analyses
 - Examined factor structure of survey dimensions
 - Calculated reliabilities (Cronbach's alpha ranged from .75 to .86)
- Poor-performing items were dropped
- Survey was finalized and released by AHRQ in 2009
- A Spanish version will be released in Summer 2011