

## Coordination of Care

The following summaries of recent peer-reviewed studies and articles describe the impact of various care coordination activities across a range of care settings on patient experience, patient safety, quality, and outcomes. Citations are linked to full-text articles when available.

Study	Objective	Conclusion
<p>Hincapie, A. L., Slack, M., Malone, D. C., MacKinnon, N. J., &amp; Warholak, T. L. (2016). <a href="#">Relationship between patients' perceptions of care quality and health care errors in 11 countries: A secondary data analysis</a>. <i>Quality Management in Healthcare</i>, 25(1), 13-21.</p>	<p>To evaluate the association between <b>patients' perceived health care quality</b> and self-reported medical, medication, and laboratory errors in a multinational sample.</p>	<ul style="list-style-type: none"> <li>Coordination of care is a predictor of self-reported health-related errors.</li> <li>When patients perceive lapses in communication among their providers and receive conflicting information from multiple health care stakeholders, they are more likely to report medical, medication, and laboratory errors.</li> <li>Patients can provide valuable insights on received care and play an important role in patient safety initiatives.</li> <li>Patient engagement initiatives are essential in health care quality management, as they may be the most reliable reporters of some aspects of the health care process.</li> </ul>
<p>Alaloul, F., Williams, K., Jones, K. D., &amp; Logsdon, M. C. (2015). <a href="#">Impact of a script-based communication intervention on patient satisfaction with pain management</a>. <i>Pain Management Nursing</i>, 16(3), 321-327.</p>	<p>To evaluate the effectiveness of an intervention (<b>script-based communication, use of white boards, and hourly rounding</b>) related to pain management on patient satisfaction with nurses' management of pain.</p>	<ul style="list-style-type: none"> <li>Using script-based communication helps nurses deliver a clear, consistent message that health care providers are aware of patients' needs, caring for their suffering, and working hard to keep them as comfortable as possible.</li> <li>The intervention improves patients' satisfaction with their pain control and with health care providers' performance in relieving pain.</li> <li>Clear and consistent communication related to pain can improve patient perceptions of nurses' performance in pain management.</li> </ul>
<p>Barata, I., Brown, K. M., Fitzmaurice, L., Griffin, E. S., &amp; Snow, S. K. (2015). <a href="#">Best practices for improving flow and care of pediatric patients in the emergency department</a>. <i>Pediatrics</i>, 135(1), e273-e283.</p>	<p>To provide a summary of <b>best practices for improving flow, reducing waiting times, and improving the quality of care</b> of pediatric patients in the emergency department.</p>	<ul style="list-style-type: none"> <li>Several points of impact can reduce emergency department boarding, improve pediatric patient safety, and promote effective, efficient, timely, and patient-centered care, including: <ul style="list-style-type: none"> <li>5-level triage system and nurse-initiated emergency care pathways during initial assessment without delay in seeing a provider</li> <li>Fast tracking and cohorting of patients</li> <li>Clinical pathways</li> <li>Responsive staffing as patients advance through the emergency department system</li> </ul> </li> </ul>
<p>Carter, J. A., Carr, L. S., Collins, J., Doyle Petrongolo, J., Hall, K.,</p>	<p>To describe how an academic medical center reduced 30-day</p>	<ul style="list-style-type: none"> <li>A multidisciplinary approach to improving care coordination effectively reduces avoidable readmissions.</li> </ul>

Study	Objective	Conclusion
Murray, J., ... Tata, L. A. (2015). <a href="#">STAAR: Improving the reliability of care coordination and reducing hospital readmissions in an academic medical centre</a> . <i>BMJ Innovations</i> , 1(3), 75-80.	readmissions through improved care coordination using the <b>STate Action on Avoidable Rehospitalizations (STAAR) program</b> .	<ul style="list-style-type: none"> <li>Combining targeted interventions—such as having a discharge Nurse for patient/family coaching and a transitional care pharmacist for pre-discharge medication reconciliation and post-discharge patient phone calls—with improved hospital coordination augments processes of care for patients during and after admission.</li> </ul>
Plonien, C., & Williams, M. (2015). <a href="#">Stepping up teamwork via TeamSTEPPS</a> . <i>AORN Journal</i> , 101(4), 465-470.	To provide an overview of the teamwork tool, Team Strategies and Tools to Enhance Performance and Patient Safety ( <b>TeamSTEPPS®</b> ), as it relates to increasing safety and efficiency in the OR setting.	<ul style="list-style-type: none"> <li>Implementation of TeamSTEPPS in surgical settings results in achieving organizational success factors, thus reducing error and patient harm.</li> <li>In the perioperative environment, two specific TeamSTEPPS tools—briefings and debriefings—provide the most benefit in improving effective communication among OR team members and improving the actual operations of the department.</li> <li>Medical team TeamSTEPPS training is associated with decreases in OR start time delays, reduced equipment delays, and fewer reported hand-over issues.</li> </ul>
Fox, D., Brittan, M., & Stille, C. (2014). <a href="#">The pediatric inpatient family care conference: A proposed structure toward shared decision-making</a> . <i>Hospital Pediatrics</i> , 4(5), 305-310.	To describe a structure for <b>family care conferences (FCCs)</b> in the pediatric inpatient setting.	<ul style="list-style-type: none"> <li>FCCs in the pediatric inpatient setting have the potential to support families in collaborative and shared decision making.</li> <li>Preparing appropriately for FCCs, using a structured communication style, and engaging parents to express their concerns may improve the outcomes of these meetings.</li> </ul>
Hajewski, C. J., & Shirey, M. R. (2014). <a href="#">Care coordination: A model for the acute care hospital setting</a> . <i>Journal of Nursing Administration</i> , 44(11), 577-585.	To evaluate a <b>patient care delivery model</b> that redefined roles for unit-based nurse case managers and RNs to streamline care coordination processes.	<ul style="list-style-type: none"> <li>Outcomes within the acute care inpatient setting can be improved by applying a model for care coordination that involves the primary care physician as a partner with a case manager for complex care and a staff RN for predictable care.</li> <li>A unit-based nurse care coordinator role is essential to facilitate inter-professional care coordination.</li> </ul>
Shunk, R., Dulay, M., Chou, C. L., Janson, S., & O'Brien, B. C. (2014). <a href="#">Huddle-coaching: A dynamic intervention for trainees and staff to support team-based care</a> . <i>Academic Medicine</i> , 89(2), 244-250.	To evaluate the effectiveness of a <b>huddle-coaching program</b> on developing team-based, patient-aligned care in an <b>outpatient</b> clinic.	<ul style="list-style-type: none"> <li>Huddles are the hub of inter-professional, team-based care.</li> <li>By emphasizing team process and relational factors and actively engaging trainees in leading and facilitating huddles, the huddle-coaching program develops trainees and staff committed to working as a team to deliver quality patient care.</li> <li>Critical elements of a successful huddle-coaching program include huddle coaches, the huddle checklist, and the team retreat which reinforced basic teamwork and communication skills.</li> </ul>
Watkins, L. M., & Patrician, ...	To evaluate the	<ul style="list-style-type: none"> <li>The study supports the use of an electronic</li> </ul>

Study	Objective	Conclusion
P. A. (2014). <a href="#">Handoff communication from the emergency department to primary care</a> . <i>Advanced Emergency Nursing Journal</i> , 36(1), 44-51.	effectiveness of an electronic handoff <b>communication</b> template to notify primary care providers that follow-up care is needed for patients discharged from the <b>emergency department</b> .	<p>template for effective handoff communication in the emergency department.</p> <ul style="list-style-type: none"> <li>After implementing the Emergency Provider Written Plan of Discharge (eEPWPD) electronic template, there was a 50% increase in the number of patients who received needed diagnostic testing post-discharge.</li> <li>Post-implementation, there was a 43% improvement in primary care provider follow-up with discharged emergency department patients.</li> </ul>
White, B., Carney, P. A., Flynn, J., Marino, M., & Fields, S. (2014). <a href="#">Reducing hospital readmissions through primary care practice transformation</a> . <i>The Journal of Family Practice</i> , 63(2), 67-73.	To assess the impact of intensive coordinated <b>care management and transition processes</b> on hospital readmissions in a group of <b>primary care</b> practices.	<ul style="list-style-type: none"> <li>Coordinating care through a “culture of continuity” that strengthens outpatient-inpatient caregiver communication improves patient care.</li> <li>Among patients readmitted, the mean hospital length of stay was lower for patients receiving coordinated care management and transition processes (5.8 days) compared to patients receiving usual care (7.1 days).</li> <li>Patient readmissions for patients receiving coordinated care management and transition processes decreased significantly from 27% to 7.1%.</li> </ul>
Brock, J., Mitchell, J., Irby, K., Stevens, B., Archibald, T., Goroski, A., & Lynn, J. (2013). <a href="#">Association between quality improvement for care transitions in communities and rehospitalizations among Medicare beneficiaries</a> . <i>The Journal of the American Medical Association</i> , 309(4), 381-391.	To evaluate whether implementation of improved <b>care transitions</b> for patients with Medicare fee-for-service insurance is associated with reduced <b>inpatient</b> readmissions and hospitalizations in geographic communities.	<ul style="list-style-type: none"> <li>Among Medicare beneficiaries in care coordination intervention communities, all-cause 30-day readmissions and all-cause hospitalizations declined.</li> <li>There was no change in the rate of all-cause 30-day readmissions as a percentage of hospital discharges.</li> </ul>
Hansen, L. O., Greenwald, J. L., Budnitz, T., Howell, E., Halasyamani, L., Maynard, G., ... Williams, M. V. (2013). <a href="#">Project BOOST: effectiveness of a multihospital effort to reduce rehospitalization</a> . <i>Journal of Hospital Medicine</i> , 8(8), 321-427.	To determine the effect of <b>Project BOOST</b> (Better Outcomes for Older adults through Safe Transitions) on <b>inpatient</b> readmission rates and length of stay.	<ul style="list-style-type: none"> <li>Hospitals coordinating care through Project BOOST were associated with decreased readmission rates.</li> <li>No significant change in length of stay was found among the hospitals implementing BOOST tools.</li> </ul>
Lee, J. I., Cutugno, C., Pickering, S. P., Press, M. J., Richardson, J. E., Unterbrink, M., ... Evans, A.	To develop a descriptive framework illustrating the <b>interconnected roles</b> of patients,	<ul style="list-style-type: none"> <li>Five principle themes influence care transitions: teamwork, systems navigation and management, illness severity and health needs, psychosocial stability, and medications.</li> </ul>

Study	Objective	Conclusion
<p>T. (2013). <a href="#">The patient care circle: A descriptive framework for understanding care transitions</a>. <i>Journal of Hospital Medicine</i>, 8(11), 619-626.</p>	<p>providers and caregivers in relation to <b>inpatient</b> readmissions.</p>	<ul style="list-style-type: none"> <li>■ A well-coordinated, collaborative Patient Care Circle (PCC) support system is fundamental to ensuring safe and effective transitions across all settings.</li> <li>■ Communication and comprehensive planning between all members of the PCC are instrumental to the circle's ability to address issues pertaining to patient-centered themes.</li> </ul>
<p>Kipnis, A., Rhodes, K. V., Burchill, C. N., &amp; Datner, E. (2013). <a href="#">The relationship between patients' perceptions of team effectiveness and their care experience in the emergency department</a>. <i>The Journal of Emergency Medicine</i>, 45(5), 731-738.</p>	<p>To examine the relationship between patients' perceptions of <b>teamwork</b> and care experience in the <b>emergency department</b>.</p>	<ul style="list-style-type: none"> <li>■ Patients with positive perceptions of emergency department teamwork were more likely to be satisfied with: <ul style="list-style-type: none"> <li>– Their overall care experience</li> <li>– Care provided to reduce pain or discomfort</li> <li>– Confidence in the providers</li> </ul> </li> <li>■ Patients who had positive perceptions of emergency department teamwork were more likely to have a self-reported likelihood to follow treatment recommendations.</li> </ul>
<p>Limpahan, L. P., Baier, R. R., Gravenstein, S., Leibmann, O., &amp; Gardner, R. L. (2013). <a href="#">Closing the loop: Best practices for cross-setting communication at ED discharge</a>. <i>The American Journal of Emergency Medicine</i>, 31(9), 1297-1301.</p>	<p>To develop <b>emergency department</b> best practices for improved <b>communication</b> during patient care transitions.</p>	<ul style="list-style-type: none"> <li>■ Care coordination best practices establish core expectations for communication with downstream providers.</li> <li>■ Identified best practices for emergency department care transitions include: <ul style="list-style-type: none"> <li>– Obtaining information about patients' outpatient clinicians</li> <li>– Sending summary clinical information to downstream clinicians</li> <li>– Performing modified medication reconciliation</li> <li>– Providing patients with effective education and written discharge instructions</li> </ul> </li> </ul>
<p>Narayan, M. C. (2013). <a href="#">Using SBAR communications in efforts to prevent patient rehospitalizations</a>. <i>Home Healthcare Nurse</i>, 31(9), 504-515.</p>	<p>To explore why communication between physicians and <b>home health</b> clinicians can be so problematic and how Situation-Background-Assessment-Recommendation (SBAR) <b>communication</b> provides effective and efficient caregiver communication, thereby promoting better patient outcomes.</p>	<ul style="list-style-type: none"> <li>■ The SBAR communication method improves not only interprofessional communication, but all communication.</li> <li>■ SBAR is very effective when hierarchical positions or critical situations make effective communication difficult.</li> <li>■ SBAR communication promotes patient safety and enhances outcomes while controlling health care costs and decreasing hospitalizations.</li> <li>■ SBAR can help home health care clinicians with efforts to prevent avoidable hospitalizations.</li> </ul>

Study	Objective	Conclusion
Agency for Healthcare Research and Quality (2012). <a href="#">Redesigned inpatient care model increases quality and patient satisfaction, reduces costs and length of stay</a> . Retrieved from: <a href="http://www.innovations.ahrq.gov">www.innovations.ahrq.gov</a>	To improve efficiency and quality by implementing a <b>collaborative inpatient care model</b> .	<ul style="list-style-type: none"><li>■ A collaborative inpatient care model improved patient experience and clinical quality and reduced costs.</li><li>■ Collaborative care:<ul style="list-style-type: none"><li>– Reduced cost per case and average length of stay</li><li>– Improved adherence to clinical best practice standards</li><li>– Increased nurse productivity</li><li>– Enhanced patient, staff, and physician satisfaction</li></ul></li></ul>