Ensuring successful implementation of communication-and-resolution programmes

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ABSTRACT
Background Communication-and-resolution programmes (CRP) aim to increase transparency surrounding adverse events, improve patient safety and promote reconciliation by proactively meeting injured patients’ needs. Although early adopters of CRP models reported relatively smooth implementation, other organisations have struggled to achieve the same. However, two Massachusetts hospital systems implementing a CRP demonstrated high fidelity to protocol without raising liability costs.

Study question What factors may account for the Massachusetts hospitals’ ability to implement their CRP successfully?

Setting The CRP was collaboratively designed by two academic medical centres, four of their community hospitals, and a multistakeholder coalition.

Data and methods Data were synthesised from (1) key informant interviews around the time of implementation and 2 years later with individuals important to the CRP’s success and (2) notes from 89 teleconferences between hospitals’ CRP implementation teams and study staff to discuss implementation progress. Interview transcripts and teleconference notes were analysed using standard methods of thematic content analysis. A total of 45 individuals participated in interviews (n=24 persons in 38 interviews), teleconferences (n=32) or both (n=11).

Results Participants identified facilitators of the hospitals’ success as: (1) the support of top institutional leaders, (2) heavy investments in educating physicians about the programme, (3) active cultivation of the relationship between hospital risk managers and representatives from the liability insurer, (4) the use of formal decision protocols, (5) effective oversight by full-time project managers, (6) collaborative group implementation, and (7) small institutional size.

Conclusion Although not necessarily causal, several distinctive factors appear to be associated with successful CRP implementation.

INTRODUCTION
Medical errors remain a leading cause of injury and death in the USA despite two decades of intensive focus on prevention.1 Ensuring that healthcare facilities respond to adverse events in a compassionate way therefore remains a key priority. Communication-and-resolution programmes (CRP) have emerged as a leading approach. Through CRPs, healthcare facilities and liability insurers discuss adverse events with patients and families; provide psychosocial support to caregivers involved in the event; investigate; explain what happened; apologise; and where substandard care caused harm, disclose the error and proactively offer compensation.2

Interest in the CRP approach has spread rapidly.3 From its origins in the Lexington, Kentucky Veterans Affairs Hospital and the University of Michigan Health System, the model spread to an initial handful of early adopters, all academic medical centres (AMC).4 From there, demonstration projects supported by the Agency for Healthcare Research and Quality (AHRQ) tested it in new settings, including free-standing hospitals and multispecialty clinics.5 With AHRQ funding, an implementation toolkit (called Communication and Optimal Resolution, or CANDOR) was developed to scale the approach nationally.6 Today, more than 200 hospitals have commenced CRP implementation.7

Positive results reported by early adopters inspired optimism about the benefits of CRPs4 8–10; however, the experiences of several other organisations have been sobering.7 11–13 Despite best efforts, some were unable to overcome barriers to implementing CRPs as envisioned, at least in the short term.3 A summary of implementation experiences in 200 hospitals concluded that there was ‘significant variability in the degree to which organisations have implemented the components of a comprehensive CRP’.7 Among five New York City hospitals, for example, all reported improvements in adverse event reporting and communications with patients but none consistently...
provided compensation proactively.\textsuperscript{11, 12} Compensation was offered in only one in six CRP cases judged to involve a standard-of-care violation that caused harm, because the CRP did not change compensation practices except by strengthening efforts to settle ‘slam-dunk’ cases involving clear error, serious harm and a complaining family.\textsuperscript{13} In Washington State, six facilities implementing CRPs ‘experienced small victories in resolving particular cases’ but ‘were unable to successfully implement a collaborative CRP’.\textsuperscript{13} They demonstrated considerable hesitancy to actually apply the approach, putting only 30 events into the CRP process over 20 months.\textsuperscript{13} Only one hospital reported that its compensation practices changed.

In contrast, two hospital systems in Massachusetts had positive experiences implementing a CRP known as Communication, Apology and Resolution (CARe).\textsuperscript{14} As previously reported,\textsuperscript{2} they implemented the CRP with high fidelity, with positive results on key success measures (details in online supplementary appendix sections A1 and A2). What factors may account for the Massachusetts hospitals’ ability to surmount obstacles to successful CRP implementation when other institutions have struggled? Drawing on key informant interviews and documentation from structured meetings over 2 years, we identify factors that facilitated implementation.

METHODS

The CARe programme

The aims of CARe are to enhance communication surrounding adverse events, improve patient safety, support clinicians in disclosing adverse events, and reduce lawsuits and promote reconciliation by proactively meeting injured patients’ needs.\textsuperscript{2} The programme was implemented at two large, urban AMCs in Massachusetts, Beth Israel Deaconess Medical Center and Baystate Medical Center, and two of each centre’s community hospitals (table 1; online supplementary appendix sections A3).\textsuperscript{2}

The day-to-day operations of CARe were carried out by the hospitals’ risk management departments, which were supported by a full-time, on-site project manager at each hospital system. The programme’s creation and implementation were led by the chief quality officers at the AMCs and a former president of the state medical society. These physicians founded and received ongoing assistance from a coalition of stakeholders known as the Massachusetts Alliance for Communication and Resolution following Medical Injury (MACRMI).\textsuperscript{16} CARe was evaluated by a team led by academic researchers.\textsuperscript{2}

CARe’s key elements were incorporated into a formal protocol including decision criteria and pathways (table 2; online supplementary appendix section A4). Following an internal investigation, the hospital decides whether or not to refer the event to the liability insurer or self-insured claims unit (both of which we call the ‘insurer’ for simplicity) for possible compensation. Risk managers and designated clinicians make the referral determination based on prespecified criteria—either the investigation indicated that a standard-of-care violation may have caused significant harm or the event entered CARe as a statutorily required prelitigation notice.\textsuperscript{2} Following insurer review, a meeting is convened with the patient/family (and both parties’ attorneys, if desired) to discuss a resolution.

Table 1 Participating hospitals, insurers and individuals* 

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Description</th>
<th>Participating individuals, n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Baseline interviews</td>
</tr>
<tr>
<td>Insurer</td>
<td>A risk retention group that insures a group of academic medical centres for professional liability.</td>
<td>2</td>
</tr>
<tr>
<td>BIDMC</td>
<td>A not-for-profit academic medical centre system in eastern Massachusetts. BIDMC’s liability insurance carrier is Insurer. Insurer also provides insurance for most of the physicians who practise in BIDMC hospitals.</td>
<td>2</td>
</tr>
<tr>
<td>BIDMC-1</td>
<td>A 672-bed, level I trauma centre in an urban area.</td>
<td>2</td>
</tr>
<tr>
<td>BIDMC-2</td>
<td>An 88-bed, acute care general hospital in a suburban area.</td>
<td>3</td>
</tr>
<tr>
<td>BIDMC-3</td>
<td>A 58-bed, acute care general hospital in a suburban area.</td>
<td>2</td>
</tr>
<tr>
<td>Baystate-1</td>
<td>A not-for-profit academic medical centre system in central and western Massachusetts. Baystate self-insures its hospitals and employees and offers optional insurance to affiliated community physicians and practices. Risk management functions are carried out at the hospital level, but central administration plays a major role in claims management.</td>
<td>1</td>
</tr>
<tr>
<td>Baystate-2</td>
<td>A 716-bed, level I trauma centre in an urban area.</td>
<td>6</td>
</tr>
<tr>
<td>Baystate-3</td>
<td>A 90-bed, acute care general hospital in a suburban area.</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>A 25-bed, acute care general hospital in a suburban area.</td>
<td>2</td>
</tr>
</tbody>
</table>

Participants in the row for ‘Baystate’ worked across all three Baystate hospitals. Two participants shown in the row for Baystate-2 also performed work for Baystate-1. Two participants from the Insurer were interviewed together at their request.

*Hospital characteristics are reported as of the time the study was completed.

BIDMC, Beth Israel Deaconess Medical Center.
### Table 2 Description of the CARe process

<table>
<thead>
<tr>
<th>CARe process element</th>
<th>Key steps in CARe protocol</th>
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<tbody>
<tr>
<td>1. Communicate with the patient* when an adverse event occurs.</td>
<td>- Clinicians, patients or attorneys alert the risk management office when an adverse event occurs.</td>
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<tr>
<td></td>
<td>- Risk management activates support services for the involved clinician(s) (offer of communication coaching and peer support).</td>
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<td></td>
<td>- Communication with the patient about the event takes place and is documented in the medical record.</td>
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<td>2. Investigate why the event occurred.</td>
<td>- The hospital, led by risk management or patient safety, conducts an internal investigation, which may involve multiple departments and external review.</td>
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<td>- The hospital reaches a determination about whether the event satisfies the CARe compensation criteria: temporary-severe harm or greater; causally related to medical care; and attributable to a deviation from the standard of care.</td>
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<td></td>
<td>- If the criteria are met, or if the event came to the hospital’s attention as a prelitigation notice, the event is referred to the hospital’s insurer.</td>
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<td></td>
<td>- The insurer conducts its own review of whether CARe compensation criteria are satisfied, incorporating information from the hospital’s review, medical record and (as needed) other external reviews.</td>
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<td></td>
<td>- Hospital and insurer identify patient safety lessons.</td>
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<td></td>
<td>- Hospital and insurer discuss the approach to resolving the event with the patient.</td>
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<tr>
<td>3 Communicate investigation findings to the patient, apologise and, where appropriate, offer fair financial compensation without the patient having to file a claim.</td>
<td>- Hospital and insurer representatives communicate investigation findings to the patient, ordinarily in a face-to-face meeting, after advising him/her that they may involve legal counsel.</td>
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<td></td>
<td>- Patient is offered an empathetic apology appropriate to the situation.</td>
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<td></td>
<td>- Patient is asked what his/her needs and concerns are.</td>
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<tr>
<td></td>
<td>- Patient is offered compensation if criteria were met. In addition, or as an alternative where compensation criteria were not met, ‘service recovery items’ (eg, meal vouchers, medical bill waivers) may be offered as gestures of goodwill.</td>
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<tr>
<td></td>
<td>- Multiple meetings may be held as needed to work towards resolution.</td>
</tr>
<tr>
<td>4. Implement measures to avoid recurrences of the event.</td>
<td>- Hospital feeds patient safety lessons identified in the investigation into its quality and safety improvement system for further action.</td>
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</table>

*Communications may also include the patient’s family, as appropriate to the situation.

CARe, Communication, Apology and Resolution.

### Data

The academic research team synthesised data from two sources. First, key informant interviews were conducted in the first 2–6 months after CARe implementation and at project’s end. CARe leaders at each site were asked to suggest up to four individuals who played (or were likely to play, for baseline interviews) an important role in the implementation or administration of CARe. Two to four interview participants from these lists were recruited by email from each hospital and the liability insurance organisations. Semi-structured interviews were conducted by one of three interviewers (MMM, AK and YG) (one female investigator, one male investigator and one female research assistant, all of whom were unacquainted with most participants at the time of the baseline interviews). Interviewers followed an interview guide (provided in online supplementary appendix sections A5 and A6) that contained open-ended questions concerning the hospital’s policies and procedures regarding adverse event response and claims management, participants’ expectations or experiences concerning CARe implementation, perceptions of how successful or unsuccessful implementation had been and factors that participants believed had facilitated and jeopardised successful implementation. These questions (and more specific probes) were informed by the academic researchers’ prior interview studies of CRP implementation efforts at several other organisations. Interviewers calibrated their styles by listening during one another’s early interviews. Interviews were conducted by telephone, lasted 30–45 min and were transcribed.

The second data source was detailed notes on implementation progress taken during 89 conference calls held approximately monthly among study team members, risk managers, quality managers and project managers for each hospital. The purpose of the calls was to share information about implementation challenges and brainstorm solutions. One academic investigator with experience leading hospital quality improvement initiatives (AK) led the calls and research assistants (YG and SR) took notes.

Interview transcripts and call notes were coded and analysed by one investigator (MMM) using standard methods of thematic content analysis. The initial coding guide was based on the interview guide and codes used in two prior studies of CRP implementation, and refined following analysis of the first five interview transcripts.

### Limitations

The number of interviews conducted within each hospital was small, though it included a large proportion of the key personnel responsible for CARe implementation. The academic researchers did not directly observe CARe implementation within the hospitals, and interview responses could reflect self-serving bias, conscious or unconscious. Information from conference calls, a less formal setting in which candid discussion flowed freely, provides some check against such bias. Finally, though they did not work at the CARe implementation sites, the academic researchers were not fully independent of MACRMI.
RESULTS

Participants
Forty-five individuals participated in interviews (24 persons in 38 interviews), conference calls (32 persons) or both (11 persons) (table 1). The interview completion rate was 88% (38 of 43 interview invitations issued). Among the 24 persons interviewed, 14 completed two interviews and 10 completed one (nine of these joined or left the hospital staff during the project and one did not respond to an invitation). Participants’ roles are detailed in table 3.

Factors facilitating successful implementation
Participants identified seven factors that facilitated successful implementation of CARE (table 4).

Support from top institutional leaders and risk managers
Clinical and non-clinical leaders at the highest levels of each hospital made their support for and commitment to the CARE programme clear from the outset and sustained it throughout implementation. In particular, participants emphasised the importance of leadership by two highly regarded physicians with leading quality roles in the hospital systems. These physicians championed the programme, spearheaded implementation and made its success a personal priority. They cultivated the support of the hospitals and insurers’ chief executive officers and boards of directors, as well as chairs and quality improvement leaders of large clinical departments. Those individuals’ support for CARE reportedly strengthened over time, particularly that of powerful department chairs, who became more active champions after an adverse event in their department got their ‘tires into the grit’.

In all but one hospital, these two champions also obtained risk managers’ firm commitment to CARE early on. In one system, implementation was reportedly ‘adrift’ until a newly hired risk management director took ‘very seriously’ the message from a senior leader that ‘he wants this to work’.

Heavy investments in engaging physicians
Engaging clinical staff, especially physicians who are ‘not part of the infrastructure’ because they are not hospital employees, was perceived as an important precondition for success. CRP teams treated clinical staff education as a continuing responsibility. ‘It seems to need to be constantly reinforced,’ a leader at a large hospital remarked. At the large hospitals, teams were ‘relentless’ about going department to department to present the programme and answer physicians’ questions. Even with extensive effort, some respondents reported that physicians’ awareness of CARE remained suboptimal.

Outreach efforts were important to make physicians aware of what the programme had to offer and to allay anxieties about the potential consequences of disclosure and compensation offers. A chief concern was having a settlement reported to the National Practitioner Data Bank (NPDB), a national repository of paid malpractice claims. ‘You’ve got folks who are still older-school: “Don’t share stuff, because that’s when bad things happen”,’ a leader of a large hospital commented, ‘So we’re constantly talking about the evidence’ regarding the effects of CRPs on malpractice risk. According to a leader of a small hospital, over time, physicians who had gone through the CARE process began to share their positive experiences during educational sessions and ‘sell it with their own stories … that’s where the buy-in from the medical staff has been’. By project’s end, respondents consistently reported that physicians’ anxieties about CARE had decreased as comfort with the process had grown.

Active cultivation of relationship with insurer
Hospitals in both systems faced the challenge of fully engaging their insurers in the CARE approach. CARE represented a ‘huge culture change for claims people’, ‘flipping on their heads everything they learned through their careers’. Claims staff who were ‘used to defending a doctor’ now had ‘to be thinking about this from a system perspective and patient and family perspective’. In one system, insurer personnel initially projected an attitude of ‘nervousness’ and ‘skepticism’. However, over time they embraced the approach as hospital staff actively worked to cultivate their relationship with insurer staff and the two groups made efforts to see things from one another’s perspectives and bridge differences in their approaches to adverse event response.

As claims managers’ collaboration with risk managers and trust in one another strengthened, insurers shifted their frame ‘beautifully’. Also influencing insurer representatives’ perspective were a growing sense that ‘clinicians seem to want to move in this direction’ and dissipating concerns that ‘the financial sky is going to fall’. CRP teams viewed the insurer’s attitudinal shift as critical because proactive compensation cannot be delivered without the insurer’s agreement.
One initial difference in philosophy related to the handling of ‘grey cases’—those where the hospital’s liability was unclear. Hospital representatives reportedly took the view that for minor injuries, ‘they should just compensate quickly’ to ‘make it right’, while insurers felt more obligated to balance the patient’s needs against those of the clinicians and hospital. Respondents consistently conveyed, however, that once they had completed their review, disagreement about whether compensation was appropriate rarely persisted.

Another difference related to the speed of decision-making. Conference calls in the first year of implementation evinced repeated discussion of delays while the insurer reviewed a case. Through group discussion, risk managers developed solutions for improving communication with the insurer and conducting better ‘co-management of cases’. Insurer representatives were reportedly ‘responsive’, leading to ‘a big shift’ and ‘increase in trust’ over time. Although the slow pace of insurer review remained frustrating to some hospital personnel at project’s end, most felt it had
improved, and the insurer felt hospital staff had better ‘appreciation of how complex it can be’.

Use of formal decision protocols and structures
Along with the MACRMI coalition, the implementing teams created formal processes and structures that facilitated the smooth operation of CARE. These included two flow charts: one defining which types of events should be handled through CARE and outlining response steps, and a second describing steps when the hospital determines compensation may be appropriate (online supplementary appendix section A4). ‘The algorithms are important,’ one leader of a small hospital commented, because they make the process of deciding what resolution to offer more ‘objective’, with less room to wiggle out of determinations unfavourable to the hospital. Throughout the project, hospitals and project staff produced a range of other documents to strengthen CARE’s protocol, such as timelines for each step and guidelines on how frequently to contact families and how to tell families their case would be considered for compensation.

Another innovation was the creation of standing meetings where individuals from different offices (eg, risk management, patient safety and the insurer) came together to ‘run the list’ of active CARE cases, share information and make decisions. This ‘weekly huddle’ helped ensure that cases moved along and steps were not missed, while also fostering closer relationships.

Oversight and assistance from project managers
Respondents repeatedly credited the study’s two on-site project managers—who had business management training and were funded by the project grant—with ensuring that CARE was carried out as intended and helping the implementing teams integrate CARE into their routine workflow. Because CARE was their full-time responsibility, the project managers contributed ‘a steady rhythm’ that kept the programme on track while risk managers were pulled in many directions by urgent events. In conference calls, they provided guidance to risk managers (particularly at small hospitals) about how to operationalise steps in the CARE process.

Within hospitals, project managers participated in the meetings in which risk managers reviewed the status of cases and kept ‘riding them’ about whether decisions had been reached: ‘What was the latest communication? Is there an update on Mr. Smith?’ Rather than finding this intervention intrusive, risk managers appreciated the extra help to ‘make sure we’re not letting things fall through the cracks’. Many were surprised by how much their workload expanded under CARE, which occurred because they were reviewing events that they previously would not have and because their reviews were more extensive and involved more communication with providers and families. Some reported feeling ‘overwhelmed’ at times and ‘running pretty much at much speed to keep up’; project managers were ‘the glue’ that brought them together and kept them focused on CARE’s goals.

Group implementation
Respondents frequently mentioned that the experience of implementing CARE alongside other institutions in a collaborative environment had been helpful. Their comments centred on three aspects of the group experience: implementing the programme as a hospital system, implementing with another hospital system and working through the MACRMI coalition.

The most commonly cited benefit of group implementation was having a structure for shared learning. Conference calls gave participants a forum to discuss thorny problems presented by CARE cases for which ‘it’s not in the manual what you should do’. For example, when a patient has not responded to an invitation to meet, how persistently should risk managers try to reach her? Further, challenging situations were shared and solutions generated at regularly convened meetings of the hospitals, insurers and MACRMI leaders. For instance, the group discussed what to do if the hospital and insurer disagreed about compensability.

A second benefit of group implementation was creating an environment in which successes could be celebrated. Respondents noted that CARE implementation is ‘a tough journey to travel on your own’; these conversations nurtured their sense that they were ‘making a difference’ and provided ‘validation that you’re doing the right thing’.

Third, group implementation was perceived to cultivate a shared culture of commitment to CARE and a sense of accountability. On conference calls, for example, discussions often centred on what patients want after medical injury and how the institutions’ response could be patient centred. Documents developed by MACRMI and the hospitals reaffirmed the core principles of CARE. To enhance accountability, data from each hospital on the volume and outcomes of CARE events were shared at MACRMI meetings.

Small hospital size
A final facilitator cited by many community hospital participants was their small institutional size. Notwithstanding early concerns that small institutions might not have the resources to shoulder the workload of CARE, the small hospitals perceived their size as an advantage, while also acknowledging that they were able to draw on the ‘bench strength’ and ‘incredible support’ of larger institutions involved in group implementation of CARE, including the AMC in their system and MACRMI.

The key perceived benefit of small size was that a ‘core group of experienced people’ responded to adverse events. Because the number of adverse events was low, the small hospitals’ top leaders, who had
Dealing with some hospitals in the region, interviewees noted that they ‘have a connectedness with that person,’ another leader commented, so ‘they learn to trust you.’ Having a small cadre of people in charge also made it easier to implement new programmes and conduct event reviews swiftly without taking it ‘up and down the chain of command’, observed a risk manager.

Some respondents pointed out one other advantage: having fewer clinicians to educate about CARe made it easier to win their trust. Although they faced challenges in reaching physicians who were not hospital employees, risk managers ‘got to know the leaders of the different departments pretty quickly’ and physicians ‘got to know their face’. Word of mouth also travelled quickly, and physicians who had had a positive experience with CARe helped win others over. A leader of a small hospital remarked that at a bigger facility ‘you would need a larger army of disciples’. Although respondents from the bigger hospitals did not identify their large size as a barrier to CARe, they had to proceed, a CRP becomes impracticable. Recently, an oft-cited principle in leadership and change management is that success requires leadership engagement. The hospitals, much like some of our collaborators such as University of Michigan, had strong support and engagement from top organisational leadership. Interview participants emphasised that it was important that the physician champions who spearheaded CARe’s creation and adoption were highly respected clinical leaders who devoted substantial energy over a sustained period of time to ensuring the programme’s success. In contrast, in the New York hospitals, some risk management and quality leaders vigorously championed the CRP but most top leaders were disengaged or openly unsupportive. Whereas the CRP in Massachusetts was created at the initiative of the chief quality officers of the two hospital systems, in New York the CRP was designed and spearheaded by outsiders from the New York State Department of Health, and some hospital leaders had tepid enthusiasm for adopting it. In Washington, participants consistently described the top leaders at all six facilities as firmly supportive—but not active champions of the programme. They were reportedly overburdened with responsibilities, including major organisational initiatives such as a new electronic health record, budget cuts and practice acquisitions—competing priorities that siphoned leadership attention. Collectively, these findings suggest that CRPs require unequivocal support and engagement from the highest levels of leadership.

In addition to leadership, ensuring key stakeholders are on board for any new effort is indispensable. In this evaluation, buy-in from liability insurers and physicians stood out as particularly critical. Because the insurer holds the purse strings, it does not believe that proactive compensation is the right way to proceed, a CRP becomes impracticable. Recently, MedStar, a large hospital system, reported that it had actively worked to nurture its hospitals’ relationship with their insurance carrier and ‘formulate a more amiable relationship’ in working CRP cases, with some success. In contrast, a lack of insurer buy-in persisted in both the New York and Washington demonstration projects. In New York, insurers preferred to wait for a formal demand for compensation except in ‘slam dunk cases’ where liability was clear. In Washington, one hospital worked diligently with its insurer to improve their relationship but the others could not move beyond past disputes. They reported that insurer representatives never embraced the CRP philosophy, which impeded alignment of compensation practices with CRP principles.

Physicians are important stakeholders for CRPs because they are typically the ones who must have deep knowledge of CARe, could be directly involved in responding to each and shepherding cases through the process. ‘Usually when something happens, people know in seconds,’ one leader said, and can ‘get right to the bedside and start having conversations.’ Making that connection quickly and providing a single point of contact reportedly facilitated the resolution conversations to take place down the line. Patients ‘have a connectedness with that person,’ another leader commented, so ‘they learn to trust you.’ Having a small cadre of people in charge also made it easier to implement new programmes and conduct event reviews swiftly without taking it ‘up and down the chain of command’, observed a risk manager.

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In addition to leadership, ensuring key stakeholders are on board for any new effort is indispensable. In this evaluation, buy-in from liability insurers and physicians stood out as particularly critical. Because the insurer holds the purse strings, it does not believe that proactive compensation is the right way to proceed, a CRP becomes impracticable. Recently, MedStar, a large hospital system, reported that it had actively worked to nurture its hospitals’ relationship with their insurance carrier and ‘formulate a more amiable relationship’ in working CRP cases, with some success. In contrast, a lack of insurer buy-in persisted in both the New York and Washington demonstration projects. In New York, insurers preferred to wait for a formal demand for compensation except in ‘slam dunk cases’ where liability was clear. In Washington, one hospital worked diligently with its insurer to improve their relationship but the others could not move beyond past disputes. They reported that insurer representatives never embraced the CRP philosophy, which impeded alignment of compensation practices with CRP principles.

Physicians are important stakeholders for CRPs because they are typically the ones who must have
difficult conversations with patients and are at risk of being sued and reported to the NPDB. At institutions that pioneered CRPs, extensive clinical staff education was viewed as a crucial and ongoing commitment over at least several years. CRP leaders gave presentations about the programme at meetings of department chairs, quality officers and every department; education about the CRP was also included in the onboarding process for all residents and fellows and the programme was publicised using posters and brochures on the clinical floors, a website and employee badge cards. In contrast, during the Washington study, educational outreach was perceived as difficult or impossible because of risk managers’ workloads, though work on this objective continues in the state. In New York, hospitals did work to educate surgical departments about the CRP but regretted that they had done it too late. Putting these experiences together, devoting significant resources to physician education and engagement appears to be a necessary component for successful implementation.

In a variety of quality improvement domains (eg, use of intravenous heparin, early recovery after surgery protocols), standardisation via protocol is a well-known tactic for reducing variability and improving outcomes. Given the challenging steps involved in the CRP process—such as acknowledging liability for error—the risk for deviation from desired practice is high. To guard against this, the Massachusetts hospitals used a detailed algorithm to hold themselves accountable to the process and identify when they deviated. They reported that this practice substantially contributed to their success.

Pioneer institutions such as University of Michigan and University of Illinois at Chicago did not report that the use of formal decision protocols was essential to their success, but two created a new structure—multidisciplinary committees—to make decisions about compensation, and one developed flow charts to govern case management. The New York and Washington hospitals used checklists to help ensure that the key elements of the CRP were applied to each eligible event, but did not go much beyond this. New York risk managers resisted the idea that decision-making about adverse events was amenable to being guided by a protocol, maintaining that ‘every case is individual’. In Washington, one facility quickly developed concrete protocols for implementing the CRP but the others did so slowly or not at all. At project’s end, multiple facilities in Washington advised others to develop detailed CRP protocols.

Developing protocols gave the Massachusetts hospitals a means of executing the programme and fostered collaboration. Group implementation was also employed in the New York and Washington projects, and large hospital systems that have adopted CRPs can also be characterised as using this approach. The New York and Washington sites all reported benefits from group implementation, but the Massachusetts hospitals appeared to develop a stronger esprit de corps than their forbears and received additional support from MACRMI.

Any institutional programme has a greater chance of success where a skilled manager provides strong oversight of its day-to-day operations, and the CRPs in Massachusetts were no exception. In addition to committed risk management leaders, the presence of dedicated, full-time project managers reportedly facilitated CARE’s success. Three earlier CRP adopters did not arrange for comparable staffing and nevertheless reported successful implementation, but at two of them, risk management leaders devoted a significant portion of their time to serving as CRP coordinator, and all sites noted that the CRP involved increased workload. The New York and Washington projects both provided project managers to assist the implementing hospitals, but unlike the project managers in Massachusetts, they were not embedded within the hospitals. Rather, they were employed by the Department of Health and a university, respectively. Despite extensive effort, as outsiders they experienced constraints on their ability to influence hospitals to change their practices. Risk managers in the New York and Washington projects reported substantial increases in their workloads and recommended allocating 0.5–1.0 FTE of dedicated staff time to running the CRP.

Although they did not emerge as themes in our analysis of interview and call notes, three environmental or contextual factors may help explain the relative success with implementation in Massachusetts. First, because the hospitals did not rely heavily on staffing models using independent physician groups, most CAREs were handled by a single insurer. The hospitals in Washington State, in contrast, routinely had to navigate collaborations across insurers, and found that in some cases the facility’s insurer was committed to the CRP process but the insurer for an involved physician was not.

Second, compared with earlier adopters, the Massachusetts hospitals had more information available when they launched their programmes. Reports of the experiences of more than a dozen organisations adopting CRPs were published and MACRMI performed a pilot study exploring stakeholders’ views of potential barriers to CRP implementation in Massachusetts and addressed these barriers in preparing for implementation.

One element of MACRMI’s effort involved spearheading a successful initiative to get state legislation passed to require adverse event disclosure, protect statements of apology and impose a 180-day ‘cooling-off’ or prelitigation notice period before malpractice claims could be formally filed. This legislation constitutes the third factor that may have facilitated the successful effort in Massachusetts. In general, CRP
participants in Massachusetts, New York and Washington had mixed views about whether and how the state’s liability environment affected the prospects for successful CRP implementation: some felt that a volatile environment made physicians too frightened of the potential consequences of disclosure and proactive compensation offers, while others believed it generated a hunger for alternatives to litigation. But there was no disagreement that a prelitigation notice law was helpful in creating the space for CRPs to do their work. CRPs in California and Massachusetts benefited from such laws, while those in Illinois, Washington and elsewhere did not.

Despite diligent and energetic efforts, organisations seeking to implement CRPs have not uniformly had smooth implementation experiences. Consistent success becomes more likely, however, as new entrants to the field glean more and more from the experiences of earlier adopters. Useful tools now exist to help organisations interested in implementing CRPs assess gaps in their policies, processes and culture that may jeopardise successful implementation if not addressed. An initiative underway to develop metrics for gauging CRPs’ performance should further assist new adopters as they work to ensure careful attention to implementation fidelity. The Massachusetts hospitals’ experience expands this bank of knowledge, highlighting tangible actions for organisations to consider taking to successfully deliver on the promise of CRPs. Collectively, these learnings provide both concrete lessons and general cause for optimism about the prospects for CRPs to transform healthcare organisations’ response to medical injury on a broad scale.

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