Addressing the multisectoral impact of pressure injuries in the USA, UK and abroad

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Pressure injuries are problematic to health systems throughout the world, significantly harming over 7 million patients and adding extraordinary costs. The USA, for instance, experiences more than 2.5 million pressure injury cases per year which cause over 60,000 deaths—that is more than car accident fatalities in the USA—and cost the health system at least $9–$11 billion.1 The UK is no less affected by 700,000 cases per year that result in 27,000 deaths and cost the National Health Service (NHS) an estimated £1.4–£2.1 billion.2

Despite there being no reason to expect major differences in the presentation of pressure injuries between the two countries, the UK appears mainly to have a problem with chronic pressure ulcers, whereas the USA appears to have an increasing burden of acute pressure ulcers.3 4 The UK NHS reports chronic wounds accounting for 78% of the NHS spending on wound treatments.3 On the other hand, the acute issue in the USA may be connected to the Centers for Medicare and Medicaid Services (CMS) reimbursement policy, which has cut payments since 2008 for hospitalised patients who acquired pressure injuries as well as penalised facilities with poorest hospital-acquired condition rates.6 7 This CMS policy also focuses financial responsibility of the pressure injury on the facility that identifies the wound, which means that facilities trying to correct other’s mistakes are often blamed.

Like most quality measures derived from billing data that have a financial penalty, variability in pressure injury rates is a combination of changes in reporting and how clinicians care for patients by implementing a pressure injury prevention protocol. While we do not have empirical evidence for the relative proportions that these two domains contribute to pressure injury rates, our experience suggests that health systems’ initial response to CMS policy has been improvements in coding and tracking pressure injuries. The more difficult, long-term improvements have been to implement better prevention protocols to actually reduce patient harm.

The study by Squitieri and colleagues in this issue of BMJ Quality & Safety is a community dwelling and acute care. They observed only 36.3% agreement in the documentation of pressure injuries during a transfer between facilities, and similarly poor rates of agreement in staging. These poor levels of agreement confirm a discordance of pressure injury documentation between facilities that attempts to undermine CMS penalties on the facility that initially caused the wound. It also places question on the quality of care witnessed during the transfer process, since patients can pass between modes of transportation, emergency departments and many other healthcare settings before a clinician performs the next skin check.

One of the concerning unintended consequences of the CMS policy is inconsistent reporting. Meddings and colleagues published that reporting consistency between patient records and billing claims in hospitals was poor—only about 7.5% of pressure injuries are consistently billed that appear in patient records.9 This discrepancy emphasises the extent of the reluctance for hospitals to voluntarily report something that can...
harm them financially and hurt their reputation in publicly reported performance statistics.

Prior to Squitieri and colleagues’ study, it was not clear whether other types of facilities were facing the same issue in reporting pressure injuries, or whether hospitals were really the main culprit of pressure injury incidence in the USA. This new study confirms that pressure injuries may really be, in part, as much a chronic issue in the USA as in the UK, but CMS payment incentives continue to skew the index location of the wound. Long-term care and home health contingencies benefit from hospitals’ inability to process patients coming from different care pathways, check for pressure injuries and properly document when the injury is present on admission, eventually making it hospitals’ problems.

The poor agreement in pressure injury documentation between facilities found by Squitieri and colleagues also suggests that pressure injuries are occurring during the transfer process, or during admission through the emergency department where few patients receive skin checks or prevention protocols. Clinical studies indicate that for patients with highly acute malnutrition, a pressure injury can develop in a matter of hours after the patient enters the healthcare system. Ambulance transfers have little protocol, if any, to address pressure injury prevention when a patient is lying on a board for several hours while first responders’ main priority is to maintain a patient’s stability after a traumatic event. Similarly, emergency department’s main priority is addressing acute problems. Patients admitted through the emergency department may spend several hours or an overnight in observation being served for the acute problem with little focus on the prevention of pressure injuries. Given the often long emergency department boarding times, a patient may not begin receiving a pressure injury prevention protocol for many hours, until well after admission to an inpatient unit, and by then it may be too late to stymie the advancement of a new pressure injury. In addition, by the time the injury is identified in the hospital, it is difficult to determine where it originated; culpability would be assigned to the hospital.

It is apparent that hospitals are in a difficult situation when it comes to being the scapegoat for most pressure injuries in the USA, and few have the bandwidth currently to upgrade their routine of skin checks and initiating a pressure injury prevention protocol in every part of the system, be it in home health, long-term care, interfacility transportation, the emergency department as well as inpatient units. The CMS payment policies have centralised the responsibility on hospitals to prevent pressure injuries or deal with multifold consequences, but this penalising system also suppresses hospitals from creating additional bandwidth to expand a prevention and skin care programme that identifies pressure injuries at the source of the problem.

Another recent study highlighted the value of cultural indoctrination of transparency as one of the first steps in bringing healthcare systems up to speed on important quality improvement efforts such as hospital-acquired condition prevention. A health system that knows where pressure injuries are coming from is more prepared to create a targeted infrastructure for improvement. A second step in the improvement process is leadership support to invest in stronger infrastructure where the problem lies. For many hospitals, if pressure injuries are actually occurring in those facilities, then hospitals need more skilled specialists (eg, board-certified wound care nurses and therapists) who can address individualised care needs for prevention and treatment of pressure injuries, and teach other bedside clinicians how to more effectively prevent pressure injuries, or at least identify early-stage, high-risk cases before they become problematic. We see that there is inherent value in investing short term in this specialist infrastructure, and in the long term it may save on the cost of paying for additional bedside care. Health systems also need more robust systems to accurately measure the incidence rates of pressure injuries across the continuum of care, transparently report their rates to clinicians and managers, and create shared accountability systems for improvement.

The third step is investing creatively in new technologies that can make the process of pressure injury prevention simpler through the pathways of patient care. A first responder already has many actions to take when a patient is being ambulanced into a facility, and time is critical. Yet, it might not be too difficult to place a prophylactic dressing on a patient’s backside or occiput to reduce the impact of pressure and friction to high-pressure points during the transportation process. Ambulances and emergency department surfaces also typically have little technology in the way of pressure relief—it is like the dark ages considering pressure sensing and relieving options are widely available (though sometimes costly). Systems that determine the root cause of pressure injuries happen elsewhere than in the hospital should be thinking about investment in these effective technologies for emergency departments, transportation, and so on, rather than punting a high-risk case to inpatient care.

Finally, the issue presented in Squitieri and colleagues’ research in combination with other recent findings illustrates that CMS payment policies have not sustained long-term reductions in pressure injuries. There is some association between these policies and pressure injury reductions, but competing evidence also suggests that systems may simply be relocating the problem or under reporting in billing claims. CMS needs to consider alternative payment structures that incentivise prevention and invest in a quality improvement infrastructure, such as a two-sided risk model that still penalises hospitals for poor performance, but also rewards hospitals for significant rate
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reductions. Investing in hospitals by paying for prevention would create bandwidth for hospitals to investigate quality improvement strategies that work to indoctrinate culture with transparency and a stronger preventive knowledge base. CMS could learn much in this respect from the NHS, which through The Kings Fund has allocated more than £22 billion through 2021 to invest in a sustainable quality improvement infrastructure.7 Financial incentives without sufficient skill, resources and infrastructure will predictably result in gaming rather than improving.

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