In recent years, the implementation of quality guidelines has gained interest. These quality guidelines have been bundled together in order to improve implementation. For instance, it is impossible to perform delirium screening using the confusion assessment method (CAM) without also taking the level of consciousness into account. Furthermore, this specific measure will also be influenced by the occurrence of pain and use of sedative medication. The same approach was used for improving the care of patients with severe sepsis, i.e. were cultures taken, antibiotics given in a timely matter, was fluid resuscitation performed, etc.

However, changing behaviour in daily critical care settings remains difficult to accomplish. Recent data from the USA underline that local settings may be responsible for different approaches regarding specific items of these bundles. Miller et al. showed that the level of implementation of the different components of the ABCDE bundle is quite variable. Indeed, ICU structure may play an important role. Bakhru et al. recently showed that staffing structure, e.g. multidisciplinary rounds, setting goals for individual patients, the presence of a physiotherapist and the nurse-patient ratio significantly affected the level of implementation of early mobility programs. Nevertheless, implementation seems to be far from complete, even if dedicated teams are in place, as was demonstrated in a USA study in the San Francisco Bay area.

Local setting may also play an important role in the Dutch setting. Addressing and mitigating pain in ICU patients should be a fundamental cornerstone of treating our patients. Nevertheless, measuring pain using a validated method is rarely performed in Dutch ICUs and warrants education and training. Also, delirium screening is still not universally implemented in all ICUs [personal communication]. The Intensive Care Delirium Screening Checklist (ICDSC) is useful for detecting delirium after it occurred, or to identify pre-delirium symptoms and signs. However, the CAM-ICU has the advantage of the required interaction with the patient, which makes this tool useful for prospective monitoring and triggering potential interventions. And although most ICU caregivers may consider their ability to recognise delirium to be excellent, this may actually be far from the truth.

We have to wake up and really change our behaviour in daily care. Within the PAD (Pain, Agitation, Delirium) guidelines screening for pain with a matched protocol managed by nurses should be considered standard of care in all ICU patients. Also, light sedation will become the standard approach with preset targets in sedation goals in order to give nurses the tools for autonomous modification of sedative usage. Less sedation and more intense communication with patients will hopefully result in a lower incidence of delirium, particularly since screening 1-3 times a day for delirium is an integral part of the bundle. Newer drugs such as dexmedetomidine and remifentanil may be useful adjuncts in our pharmacological armamentarium in the ICU.
Wake up, it’s time for bundles

Choices will have to be made to maintain the balance between actual implementation and the effects obtained. An increasing number of quality improvement parameters with inherent administrative workload will inadvertently result in a decrease in project quality of care (figure 1). In other words: we have to choose the quality indicators that most probably will impact strongly on the quality of care delivered in a specific ICU. This may be markedly different from setting to setting depending on case-mix, historic background, presence of local champions advocating certain strategies and the sufficient number of staff. Making choices where energy should go relies on training and education. Particularly focussing on implementation issues deserves attention, since changing behaviour remains difficult. After all, also critical caregivers are only human.

Disclosures
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