



Where technology and teamwork converge for optimal patient care

BD neXus - Designed with clinicians for clinicians



Nurses: The challenge of teamwork in a world of interruptions

A nurse has many tasks to deal with every day. As a nurse, you face a fragmented, interruptive environment where teamwork is constantly challenged. Nurses experience anywhere from 4.3 to 18 interruptions per hour and spend 23% to 42% of their time multitasking.²



While some interruptions may be necessary for positive patient outcomes, most are not.

What's more, a U.S study reported that nurses were most likely to be interrupted and to multitask during medication administration, leading to critical errors which can pose life-threatening consequences for patients.¹ In fact, another U.S study highlighted that nurses are reported to spend on average 34% of their time multitasking, resulting in an error rate of 1.5 per hour.²

Another factor contributing to medication administration errors is nurse fatigue, which is caused by work characteristics such as nightwork, overtime and the requirement to perform cognitively demanding tasks.³

Medication administration errors cause preventable patient harm and cost billions of dollars from already-strained healthcare budgets. Furthermore, given their challenging work environment, a French study flagged that the prevalence of high-level burnout is higher than 40% in all ICU professionals.⁴ Therefore, solutions that strengthen team efficiency and allow you to focus on essential nursing activities to improve your patients' well-being, as much as your own, are paramount.

1 Nurses' Time Allocation and Multitasking of Nursing Activities: A Time Motion Study. Po-Yin Yen, PhD, RN, Marjorie Kelley, MS, RN, Marcelo Lopetegui, MS, MD, Abhijoy Saha, MS, Jacqueline Loversidge, PhD, RN, Esther M. Chipps, PhD, RN, Lynn Gallagher-Ford, PhD, RN, FAAN, Jacalyn Buck, PhD, RN

2 Interruptions and Multitasking in Nursing Care. Beatrice J. Kalisch R.N., Ph.D., Michelle Aebersold R.N., Ph.D. (Clinical Assistant Professor) The Joint Commission Journal on Quality and Patient Safety Volume 36, Issue 3, March 2010, Pages 126-132

3 Fatigue in nurses and medication administration errors: A scoping review. Tracey Bell RN RM BA (Hons) MA, PhD Candidate | Madeline Sprajcer PhD, BPsyc(Hons), Academic | Tracey Flenady PhD, RN BN, Deputy Dean Research | Ashlyn Sahay PhD, BN (Hons), GCLT, Postgraduate Research Coordinator, Senior Academic Journal of Clinical Nursing

4 High-level burnout in physicians and nurses working in adult ICUs: a systematic review and meta-analysis. Laurent Papazian, Sami Hraiech, Anderson Loundou, Margaret S. Herridge and Laurent Boyer. Intensive Care Med (2023) 49:387–400. <https://doi.org/10.1007/s00134-023-07025-8>

The next generation of medication safety enables better teamwork

Do less, so your team can care more. Distributed by BD, your partner with 55+ years of experience in infusion solutions, and building on the long-standing platform Alaris™, the new BD neXus is a connected medication management solution designed with clinicians for clinicians. It takes all these considerations into account to enhance your team's efficiency and give you the time to do what you do best – care for your patients.

Building on BD's long-standing platform Alaris™, the new BD neXus has kept what worked best and added modernity, lightness and flexibility in protocols. It covers broader clinical scenarios, standardizes clinical practice and provides auto documentation to help your team stay focused when juggling several projects at the same time, improve confidence in delivering medication safely, and allow you to focus on patients without interruption.

According to the NHS and Chi+Med guidelines for making medical devices safer, when it comes to product design for patient safety, there are a few considerations to take into account: the product's physical dimensions and ergonomics, the use of color and labeling to highlight key information, the clear loading and priming of infusion devices, intuitive touchscreens and input entry interfaces designed to help prevent errors which can result in harm or death.

Say hello to an efficient workflow.

Thanks to its intuitive programming with color touchscreen and screen lock, and Fast Track data entry, BD neXus reduces the number of steps when entering infusion parameters.

Count on more safety.

The BD unique Guardrails™ software helps reduce the occurrence of harmful IV medication errors by offering a visual indication of compliance. The color coding design allows care teams to review medication safety at a glance.

3... 2... 1... Done!

The BD neXus S700 syringe pump offers syringe loading in automatic, semi-automatic and manual mode. It also allows for better management of infusion delivery via its handover mode and high flow rates designed for sepsis management.

Modular design.

At a weight of less than 1.8 kg and with simplified, tool free, stacking options, which can incorporate up to 12 pumps in one station, BD neXus enhances bedside organization and hospital transport.

One platform. Many benefits.

The BD neXus Medication Safeware can be used with both the BD neXus volumetric and syringe pumps. It allows your team to develop a drug library, configure general pump settings, upgrade software, transfer to the pumps as well as download fluid and event logs.

Hospital transformation is a journey, but the new BD neXus can help make it easier for your entire care team. By combining all the steps of medication management, from prescription to administration, BD neXus offers a holistic and streamlined approach, which can help you focus more on patient-facing clinical activities and improve patient care.

Helping nurses make a difference

We take pride in being your infusion partner for +55 years.



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