NEWS ALERT

BD

Advancing the
world of health

BD CELEBRATES 20 YEARS OF ITS PYXIS ANESTHESIA ES SYSTEM HELPING TO IMPROVE MEDICATION SAFETY IN THE OPERATING ROOM

FRANKLIN LAKES, N.J., October 20, 2017 – BD (Becton, Dickinson and Company) a leading global medical technology company, today celebrates the 20th anniversary of its Pyxis™ Anesthesia ES System. Designed for the unique needs of operating rooms (ORs) and procedural care areas, the Pyxis Anesthesia ES system maximizes medication safety and workflow efficiency while helping to minimize drug diversion.

The combined incidence of medication errors in anesthesia is approximately 1 in 211 anesthetics, with anesthesia errors carrying an annual cost between $3.1 billion and $4.6 billion in the U.S. alone[i]. The Pyxis Anesthesia ES system may help hospital pharmacists and anesthesia care providers avoid errors such as administering expired medications and dispensing the wrong medication or dosage.

"Patient safety increased with immediate unplanned, but likely, drug availability in a secure source," said Bruce Latimer, director of Pharmacy at Kingman Regional Medical Center during a recent TechValidate survey where customers said the Pyxis Anesthesia system helps their anesthesia providers and pharmacists improve workflow efficiency and safely manage medication in the OR. A Certified Registered Nurse Anesthetist said: "Pyxis has given us a more secure system for handling, storing and tracking narcotics. It has also reduced the documentation time for the CRNAs."

In the mid-1990s, BD began developing the initial Pyxis Anesthesia system by consulting anesthesiologists to understand how medications were managed in the OR. These discussions identified the types, sizes and daily volumes of medications that were typically used, as well as workspace requirements.

Since then, BD has continually used customer input to refine the Pyxis Anesthesia ES system. One example is the addition of a controlled-access pop-matrix drawer to provide secure storage space for bulkier, high-risk medication. Other enhancements include reporting tools, a patient-centric workflow and My Kits integration.

Another key challenge in the perioperative environment is the labeling of medication containers especially in connection with the anesthesia care provider prescribing, administering and charting medications in real time. Pyxis Anesthesia ES system supports label printing solutions that follow the ISMP and ASA recommendations and ensures that labels are readily available, a standardized policy is in place to support appropriate use and frequency, etc.

"For more than 20 years the Pyxis Anesthesia ES System has been helping anesthesiologists avoid errors and achieve greater workflow efficiencies," said Jason Strohm, vice president and general manager of Worldwide Dispensing and Preparation Technologies for BD. "What

makes this innovative solution truly unique is its ability for continuous advancements in order to help hospitals meet the evolving needs of diversion control, workflow efficiency and medication safety."

The Pyxis Anesthesia system also helps hospitals and other procedural care facilities address drug diversion. Anesthesiologists have nearly 3 times the odds of being admitted for substance abuse treatment compared with physicians in other specialties.[ii] Opioids are the most commonly abused substances in the OR.

With tracking, reconciliation, documentation and other management tools, the Pyxis Anesthesia system helps protect patients from medication errors due to diversion. It also helps protect anesthesiologists from diversion suspicion by providing clear traceability. In one study, the Pyxis Anesthesia system helped reduce the controlled substance reconciliation error rate from 8.8 percent to 5.2 percent.[iii]

"Before implementing Pyxis Anesthesia system (PAS) we were given a bag with all the drugs needed for our cases, with all the risks that this encompassed. With PAS we reduce the waste and the risk of getting things lost. I only remove what I need for the ongoing case. The medications are dispensed to the anesthesia provider, which enforces accountability and helps to control diversion," said Dr. Razvan Dumitru, CRNA, DNP, MS. Clinical Coordinator, Cardiovascular Anesthesiology and Critical Care, Houston Methodist Hospital, DeBakey Heart and Vascular Center.

For more information, please visit www.bd.com or follow the BD Twitter handle @BDandCo for news alerts and company updates.

About BD
BD is a global medical technology company that is *advancing the world of health* by improving medical discovery, diagnostics and the delivery of care. BD leads in patient and health care worker safety and the technologies that enable medical research and clinical laboratories. The company provides innovative solutions that help advance medical research and genomics, enhance the diagnosis of infectious disease and cancer, improve medication management, promote infection prevention, equip surgical and interventional procedures, and support the management of diabetes. The company partners with organizations around the world to address some of the most challenging global health issues. BD has nearly 50,000 associates across 50 countries who work in close collaboration with customers and partners to help enhance outcomes, lower health care delivery costs, increase efficiencies, improve health care safety and expand access to health. For more information on BD, please visit bd.com.

###

[i] Cooper L, Nossaman B. Medication errors in anesthesia: A review. Int Anesthesiol Clin 2013;51(1):1-12
[ii] Skipper, G. E., M. D. Campbell and R. L. Dupont (2009). "Anesthesiologists with substance use disorders: a 5 year outcome study from 16 state physician health programs." Anesth Analg 109(3): 891-896.
[iii] Epstein RH, Dexter F, Gratch DM, et al. Controlled substance reconciliation accuracy improvement using near real-time drug transaction capture from automated dispensing cabinets. Anesth Analg 2016;122(6):1841-1855