

delivery through a built-in software interface. Infusion pumps offer signi hormones, antibiotics, chemotherapy drugs, and pain relievers. There are portable or wearable. Because infusion pumps are frequently used to address example, some pumps are designed to alert users when air or another bl limits. Over the past several years, significant safety issues related to infusion associated with the use of infusion pumps, including numerous injuries a reversible adverse health consequences, or when the probability of serior	ficant advantages over manual administration of fluids, including the many types of infusion pumps, including large volume, patient-comminister critical fluids, including high-risk medications, pump failured lockage is detected in the tubing that delivers fluid to the patient. Sofusion pumps have come to FDA's attention. These issues can compand deaths. During this time period, manufacturers conducted 87 included adverse health consequences is remote. Fourteen recalls were Company to the property of the p	ne ability to deliver fluids in very small volumes, and the ability to deliver fluids ontrolled analgesia (PCA), elastomeric, syringe, enteral, and insulin pumps,. So see can have significant implications for patient safety. Many infusion pumps at some newer infusion pumps, often called smart pumps, are designed to alert the promise the safe use of external infusion pumps and lead to over- or under-infusion pump recalls to address identified safety concerns. Seventy of these reclass I – situations in which there is a reasonable probability that use of the reclass I.	ing homes, and in the home. In general, an infusion pump is operated by a trainer is at precisely programmed rates or automated intervals. They can deliver nutriform are designed mainly for stationary use at a patient's bedside. Others, called re equipped with safety features, such as alarms or other operator alerts that are user when there is a risk of an adverse drug interaction, or when the user sets fusion, missed treatments, or delayed therapy. From 2005 through 2009, FDA recalls were designated as Class II, a category that applies when the use of the recalled device will cause serious adverse health consequences or death. These addrer related to deficiencies in device design and engineering, which can either creater that the second control of the recall of the second control of the recall of the second control of the recall of the second control of the second co	ents or medications, such as insulin or other d ambulatory infusion pumps, are designed to be e intended to activate in the event of a problem. For the pump's parameters outside of specified safety seived approximately 56,000 reports of adverse events alled device may cause temporary or medically werse event reports and device recalls have not been
The most common types of reported problems have been associated with user awareness, (2) proactively facilitate device improvements, and (3) properties to reduce pump-related risks, and how to report problems to FDA. Additionally, the patient's condition at first had improved, he later developed difficulty switch days, the patient received fentanyl, ranging from 25 to 100 g per hour, within place and remained connected to the patient's IV line. Later that day, the pump channel, retrieved a new Lactated Ringer's infusion, attached it to nurse caring for the patient also did not notice that fentanyl, not Lactate by the fentanyl infusion caused serious brain and organ anoxia and ultim several risk-reduction strategies that might have pre-vented this error. On this verification process together. Disconnect and discard all discontinue	a software defects, user interface issues, and mechanical or electrical publish new guidance for industry. For more information on FDA's prional Resources Discontinued fentanyl infusion left attached to patie vallowing. After aspirating food and suffering acute respiratory arrewith the dose titrated daily as needed for sedation. Several days late the smart infusion pump alarm went off, alerting practitioners that a the correct pump channel, and programmed the infusion correctly. A Ringer's, was infusing. The rate of the fentanyl infusion was not deately resulted in the patient being removed from life support several change-of-shift verification. Require oncoming nurses to verify all the dor held infusion bags/ syringes. Discontinued or held infusions should be supported to the support of the support several change-of-shift verification. Require oncoming nurses to verify all the dor held infusion bags/ syringes.	al failures and are explained on the Examples of Reported Infusion Pump Prob progress in completing these steps see the Infusion Pump Improvement Initiate ent contributes to his death, but risk-reduction strategies can prevent similar a set, the patient was placed on a ventilator, during which he was sedated via an er, the patient's physician discontinued the fentanyl infusion in the morning, he a bag of Lactated Ringer's, which was infusing via a different pump channel, v. However, she accidentally restarted the fentanyl infusion instead of the Lacta disclosed. Several hours later, the patient's blood pressure had dropped significant al days later. SAFE PRACTICE RECOMMENDATIONS Although the Institute for their assigned patients' infusions, tracing the lines and inspecting the pump set bould be immediately removed from the pump, disconnected from the patient, a	blems page. In 2010 the FDA announced three steps it would take to improve infitive page. On this website, you can learn more about infusion pump problems, ac mistakes. A patient, who had been hospitalized after suffering a stroke, died follow intravenous (IV) fentanyl infusion (10 g/mL) connected to 1 of multiple channels oping to extubate the patient that afternoon. The pump channel infusing the fent was near completion. A nurse filling in for the patient's primary nurse responded ated Ringer's solution. Although the pump alarm went off, the nurse silenced it, cantly, and the error was recognized. Although the fentanyl infusion was then query Safe Medication Practices (ISMP) has no additional details other than what contains and infusion labels, and then matching each with orders. The oncoming numbered discard- ed. A discontinued infusion should not be left set up via a stopped in	usion pump safety. These steps were to (1) increase tions FDA is taking to improve pump safety, strategies wing an inadvertent infusion of fentanyl. Although the s on a smart infusion pump. Over the next several anyl was turned off, but the infusion container was left to the pump alarm, turned off the corresponding thinking that it had happened accidentally. An evening ickly discontinued, the prolonged hypotension caused ald be gathered through the news media, there are rese and the nurse finishing her shift should perform fusion pump that either remains connected to the
autoprogramming) smart infusion pump interoperability with the electro the patient and on the tubing above the channel or pump. If available as response to operational alarms, establish thresh- olds for duration and from the rate is adjusted, the tubing should be traced by hand from the solu-	onic health record to reduce the risk of pump programming errors.L a pump feature, ensure the name of the infusion is clearly visible or requency, identify the top alarms by type and care area/profile, and ution container to the pump and then to the patient for verification	abel the tubing and pump channel. Labels with the name of the drug being information the pump screen. Manage operational alarms. For a variety of reasons such a deter-mine whether they are critical alerts. Remove non-critical alerts as need of the proper channel/pump and route of administration. Michael J. Gaunt, Pha	ninister other fluids and medications. Implement interoperability. Implement biding fused and route of administration should be affixed to each access line (eg, epiduals alert fatigue or poor warning design, operational alarms may be overlooked on eded to decrease alert fatigue. Trace the tubing. When parenteral infusions are carmD, is a medication safety analyst and the editor of ISMP Medication Safety Aler 31, 2020. Accessed September 8, 2021. www.indystar.com/story/news/investigations.	ral and IV) at the distal end of the tubing closest to r quickly overridden. To maximize efficiency and hanged (new bag or syringe), reconnected, or started ert! Community/Ambulatory Care newsletter at the
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