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Case

Medication Waste Reduction in an In-Hospital Pharmacy, Part C

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Hannah learned that pharmacy management is considering making two operational changes:

- Instead of running the batch process once a day, the pharmacy could run the process twice a day, as shown below:

	Single-batch process	Two-batch process	
		Day shift	Overnight shift
Label printing starts at:	6:00	6:00	22:00
Update labels printed at:	12:00	12:00	4:00
Meds leave pharmacy at:	14:00	14:00	6:00
Time period covered:	16:00–15:59 (24-hr. window)	16:00–07:59 (16-hr. window)	08:00–15:59 (8-hr. window)

- The other, longer-term change under consideration is the implementation of a new pharmacy workflow software: DoseEdge. The pharmacy is considering investing in this software because it allows for increased safety in tracking the compounding of medication. The initial cost of the software is substantial, and there are yearly maintenance costs. The software also advertises some features that could help reduce waste of prepared doses. (See the Baxter DoseEdge Web page with its claims for reducing waste in Figure 1.) Pharmacy management is uncertain how to value (in dollar terms) this benefit. If the number is significant, it could be easier to receive approval for this purchase.

Supplemental Material

Supplemental material to this paper is available at <http://dx.doi.org/10.1287/ited.2015.0147csC>.

Figure 1 Baxter's DoseEdge Web Page

www.baxtermedicationdeliveryproducts.com/pharmacy-workflow/doseedge.html

Baxter

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Pharmacy Workflow | Drug Delivery | Nutrition | IV Access | IV Solutions | Infusion Systems | Clinical Center of Excellence | Support & Service

ABACUS Calculation Software | **DoseEdge Pharmacy Workflow Manager** |
EXACTAMIX Automated Compounding Systems INTELLIFILL I.V. | Oral and Enteral Systems, Topical Dispensers |
Pharmacy Admixture Tools
REPEATER Pump

DoseEdge Pharmacy Workflow Manager

The **DoseEdge** Pharmacy Workflow Manager is an enterprise solution that interfaces with your Pharmacy Information System (PIS) to automate the process of routing, preparing, inspecting, tracking and reporting on IV and oral liquid doses.

By providing visibility to the entire dose preparation and dispensing process for both patient-specific and stock doses, The **DoseEdge** System helps to:

- Promote Dose Preparation Safety
 - Automatic calculations and barcode verification of ingredients help reduce key sources of preparation errors, including wrong drug selection and incorrect dose concentration
 - Standardized preparation steps facilitate uniform processes among users
- Reduce Waste
 - Identify errors prior to admixture to reduce rejections and remakes
 - Use unexpired returned doses to fill other medication orders
 - Automatically remove discontinued doses from the preparation queue
 - Implement just-in-time dose preparation
 - Utilize dose tracking to minimize lost or missing doses
- Enhance Pharmacy Productivity
 - Remote dose inspection and approval frees pharmacists to concentrate on other clinical activities
 - Reporting functions within the **DoseEdge** System allow for analyzing compounding error rates, trending of workloads and other productivity measures

To request additional information, including a live **DoseEdge** System demonstration, contact your local Baxter representative at 800.422.9837.

[More Information](#)

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