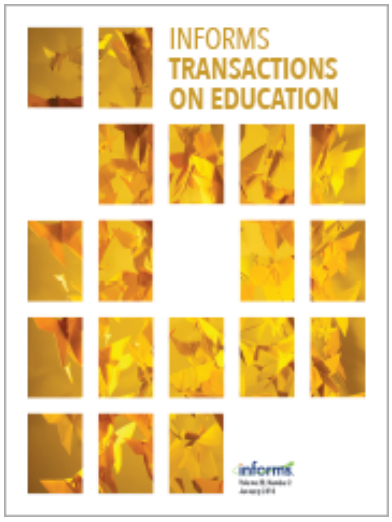
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To cite this article:
Gregory Dobson, Vera Tilson (2016) Case—Medication Waste Reduction in an In-Hospital Pharmacy, Part C. INFORMS Transactions on Education 16(2):77-78. https://doi.org/10.1287/ited.2015.0147csC

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Vol. 16, No. 2, January 2016, pp. 77–78
ISSN 1532-0545 (online)
INFORMS Transactions on Education

http://dx.doi.org/10.1287/ited.2015.0147csC
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Case

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

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Keywords: developing analytical skills; spreadsheet modeling; teaching with projects; teaching inventory management; teaching healthcare operations
History: Received: August 2015; accepted: September 2015.

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

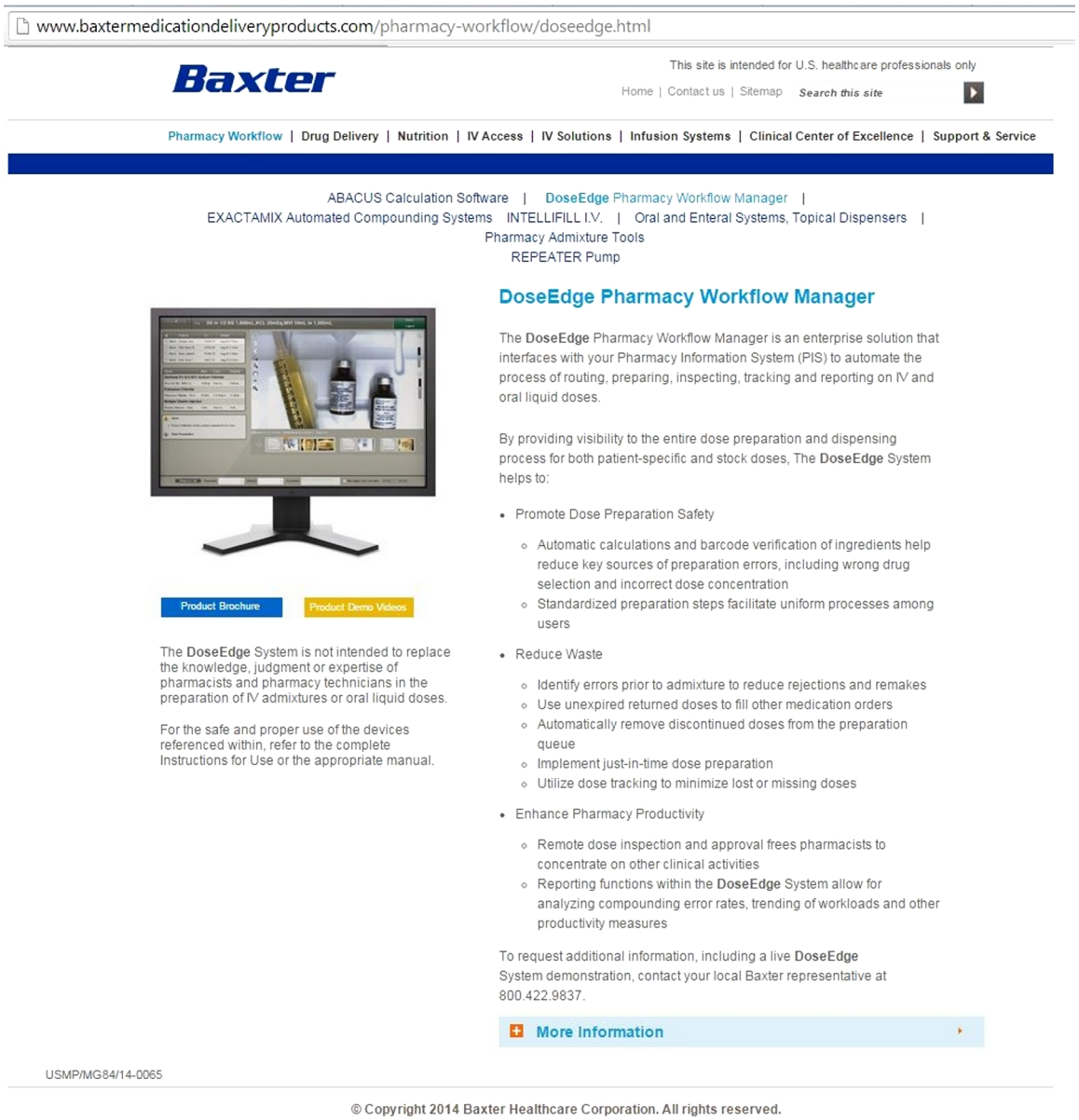
- Instead of running the batch process once a day, the pharmacy could run the process twice a day, as shown below:

		Two-batch process	
	Single-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



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