

Supplemental Orders Analysis for Materiel Services Center

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Nursing staff from UMH 5DS

Executive Summary

Introduction and Background

Materiel Services Center provides periodic automatic replenishment (PAR) stocking services to approximately 210 customers within the University of Michigan Hospital and Health Centers (UMHHC). Units are PAR stocked daily on days they are open and operational. In addition to PAR stocking services, Materiel Services Center also fills supplemental order requests for any item the warehouse carries that units have either depleted from their inventory or are not routinely PAR stocked. Materiel Services Center has noticed a large percentage of their supplemental orders are being run to a small number of consistent customers. Materiel Services Center would like to improve their customer service by ensuring their customers have adequate supplies delivered during PAR stocking and reduce the number of supplemental orders.

Goals and Objectives

The objective of this project is to determine the root causes for MSC supplemental orders from units that are PAR stocked daily and to make recommendations for reducing the number of supplemental orders and improving overall PAR levels.

Current State

Materiel Services Center currently employs sixty-nine stockkeepers and runners who are responsible for PAR stocking services and filling supplemental and custom requisition orders. All carts are PAR stocked daily during first or second shift. The supplemental is that supplemental orders process requires that orders are delivered within 60 minutes of being requested 24 hours a day. If an ordered is placed stat, it is delivered within 15 minutes. Based on supplemental order data from 11/1/05 to 10/31/06, MSC fills between 67 and 576 lines per day, a daily average of 172 lines.

Methodological Details

- A literature search to determine if similar studies had been conducted.
- Interviewed management and staff in MSC to gain an understanding of the current state.
- Developed an inventory re-stocking formula (re-order quantity/PAR level).
- Stratified supplemental data.
- Analyzed PAR stocking and supplemental order processes and data to determine root causes.
- Validated anecdotal observations.
- Summarized results and findings followed by development of recommendations for reducing supplemental orders.

Observations

Through observational studies and interviews, several categories of reasons for supplemental orders were identified. A taxonomy consisting of these categories was created.

Recommendations

1. **Change CSR data entry process for customer identification:** Work with MAIS to implement a system which forces users to select from a predefined list of delivery locations and have the corresponding department ID automatically populate.
2. **Develop a standardized list of item nomenclature for all items in MSC warehouse**
3. **Create a more detailed description for each item in the online catalog**
4. **Label supplemental items being delivered with recipient's name**
5. **Develop system of notifying units of warehouse stockouts during PAR stocking process**

- 6. Encourage communication between unit and stockkeeper**
- 7. Generate a PAR list review trigger**
- 8. Educate MSC customers about services offered**
- 9. Adjust PAR levels as needed:** Reduce the probability of stockouts using a more precise formula.

INTRODUCTION AND BACKGROUND

Materiel Services Center (MSC) plays a pivotal role in the University of Michigan Hospitals and Health Centers' (UMHHC) mission to provide excellence in patient care by meeting the medical and surgical supply needs of the clinical staff. MSC manages a 9,000 square foot warehouse where an inventory value of approximately \$1.35 million is maintained and represents an inventory turnover of 24 times per year.

Materiel Services Center's periodic automatic replenishment (PAR) stocking services are utilized by approximately 210 customers within University Hospital (UH), Taubman Center (TC), Comprehensive Cancer Center (CCC) and C. S. Mott Children's and Women's Hospitals. With the imminent closing of M-Stores and the opening of the Rachel Upjohn Building, Cardiovascular Center, and the new Mott Children's Hospital and Women's Hospital, Materiel Services Center would like to re-evaluate their PAR stocking formula to ensure adequate stocking levels. Every customer is stocked on a daily basis by a Materiel Services Center stockkeeper from the warehouse on Level B2 of UH. Despite being stocked daily, some units are placing a high number of calls to MSC for depleted items. MSC responds by creating a Materiel Service Requisition (MSR) or supplemental order. An evaluation of the PAR stocking levels has been requested to reduce supplemental order requests in an effort to improve MSC efficiency and customer service.

Goals and Objectives

The objective of this project is to determine the root causes for MSC's supplemental orders from units that are PAR stocked daily and to make recommendations for reducing the number of supplemental orders and improving overall PAR levels.

Current State

Materiel Services Center currently employs sixty-nine stockkeepers and runners who are responsible for PAR stocking services and filling supplemental and custom requisition orders. All carts are PAR stocked daily during first or second shift. The supplemental is that supplemental orders process requires that orders are delivered within 60 minutes of being requested 24 hours a day. If an ordered is placed stat, it is delivered within 15 minutes. Based on supplemental order data from 11/1/05 to 10/31/06, MSC fills between 67 and 576 lines per day, a daily average of 172 lines.

Methodological Details

The methodology used to conduct this study was the following:

- A literature search to determine if similar studies had been conducted.
- Interviewed management and staff in MSC to gain an understanding of the current state.
- Developed an inventory re-stocking formula (re-order quantity/PAR level).
- Stratified supplemental data.
- Analyzed PAR stocking and supplemental order processes and data to determine root causes.
- Validated anecdotal observations.
- Summarized results and findings followed by development of recommendations for reducing supplemental orders.

1. Definitions and Scope

Includes:

- Customers PAR stocked on-site defined as: University Hospital, Taubman Center, Comprehensive Cancer Center, Mott Children's Hospital and Women's Hospital
- Items routinely stocked in the Materiel Services warehouse

Excludes:

- All off site locations and select onsite units (please see a complete list in Appendix A)
- Custom requisitions
- Custom items not ordered through Materiel Services Center

2. Understanding current process

Interviews were conducted with MSC management and staff to gain an understanding of the current state of their operations. Process flow maps of the supplemental order process and PAR stocking process were created and validated by Materiel Services Center's employees and management (Appendix B and C). Interviews were also conducted on the receiving end of the supplemental order process with select units to validate anecdotal stories as well as to understand potential causes for supplemental orders. A fishbone diagram illustrating these causes may be reviewed in Appendix D. The fishbone diagram led to the creation of a taxonomy of supplemental order root causes, which subsequently became the basis for further observational study and data analysis.

3. Stratification and analysis of PAR quantities and supplemental data

Supplemental data from M-Pathways' Financial Operational Data Store (FinODS) was analyzed over the time period November 1, 2005 to October 31, 2006. The conclusions drawn from the data stratification led to process studies of Materiel Services Center's customer service representatives (MSC CSR) and to meetings with MSC top supplemental order customers.

4. Analysis of existing PAR level equation

A statistical analysis of the current PAR level equation was conducted to determine if it provides a sufficient level of stock to meet the demands of each unit.

Quantitative Analysis**1. Stratification of Supplemental Data**

All supplemental data was taken from M-Pathways FinODS for the time period 11/1/05 through 10/31/06.

The top 10 MSR customers by lines remained consistently the same when data was evaluated on a quarterly basis. The graph below summarizes the top 10 MSR customers by lines. (Lines are defined as the number of times an item is ordered by a unit regardless of the item quantity.)

Top 10 MSR Customers by Lines between 11/1/05 and 10/31/06

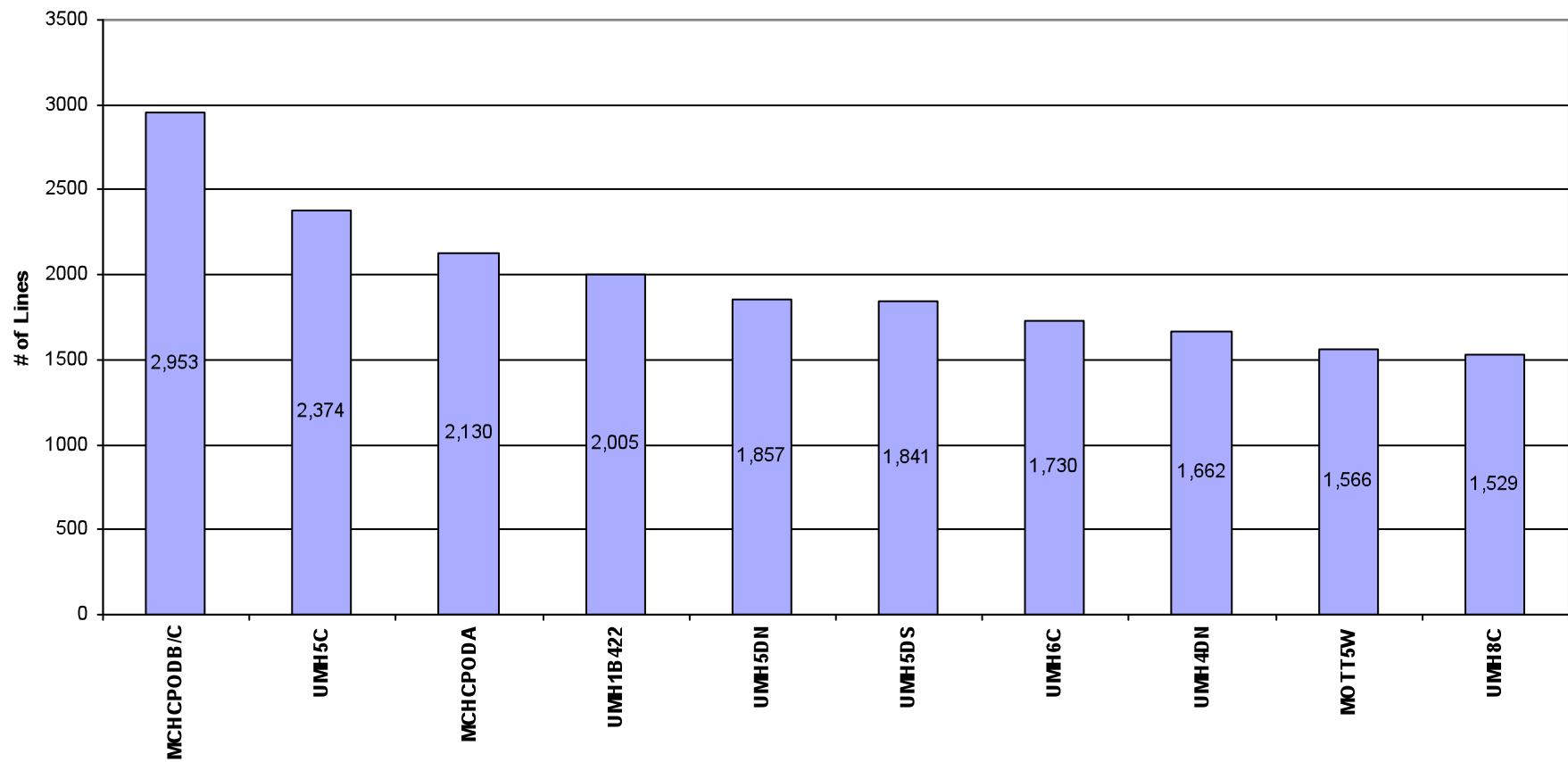


Figure 1. Top 10 MSC Customers by Lines between 11/1/05 and 10/31/06

The graph below illustrates the top 25 items requested from MSC through supplemental orders by quantity and their corresponding total cost.

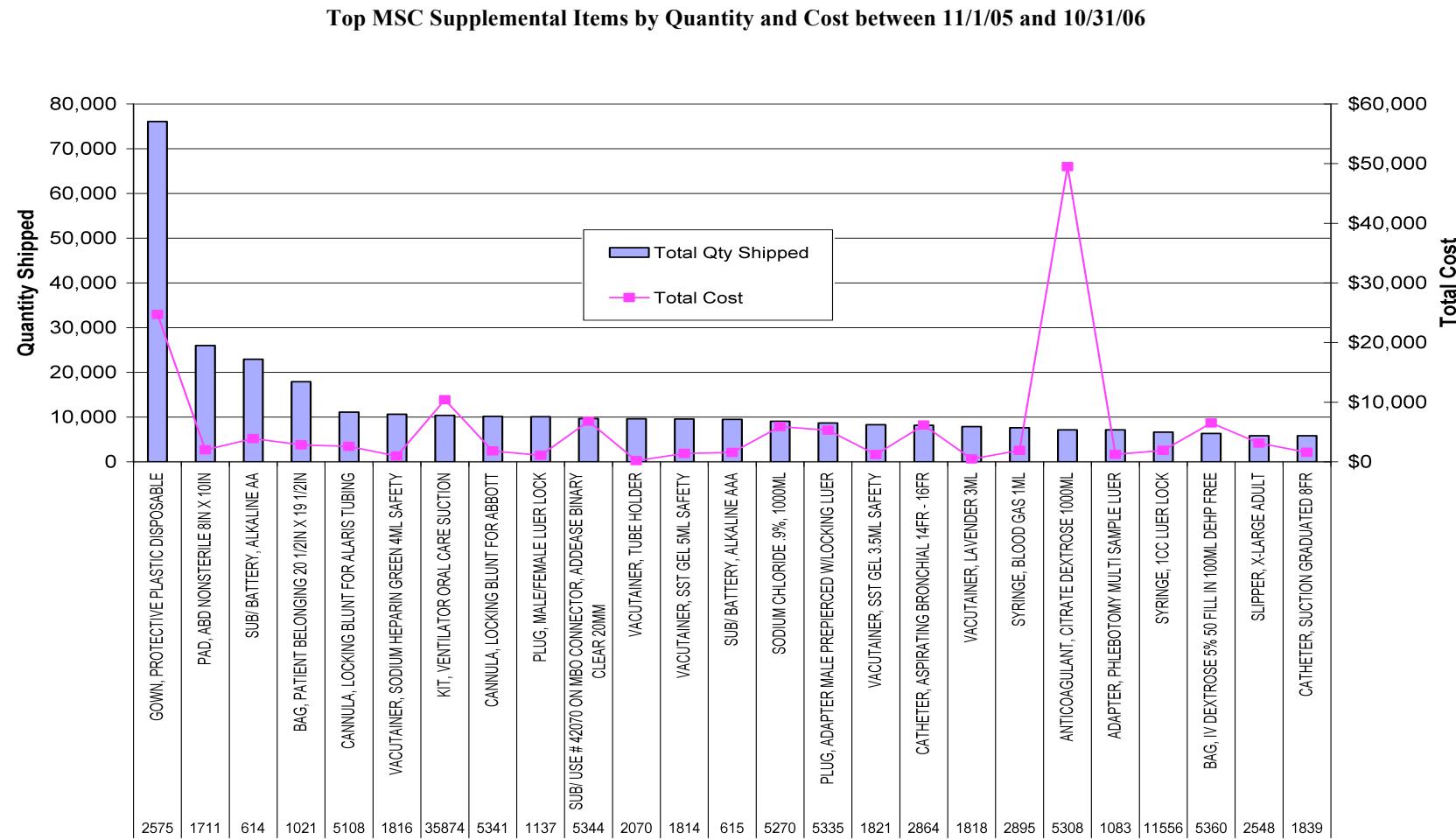


Figure 2. Top 25 Supplemental Items Ordered by Quantity and Total Cost between 11/01/05 and 10/31/06

The following three graphs show the total number of lines shipped by month, day of week, and hour of day all for the same time period, 11/1/05 through 10/31/06. Lines by month showed only slight variation and supplemental orders peak on Tuesday. Approximately 55% of all supplemental orders are placed between the hours of 8:00 AM and 2:00 P.M.

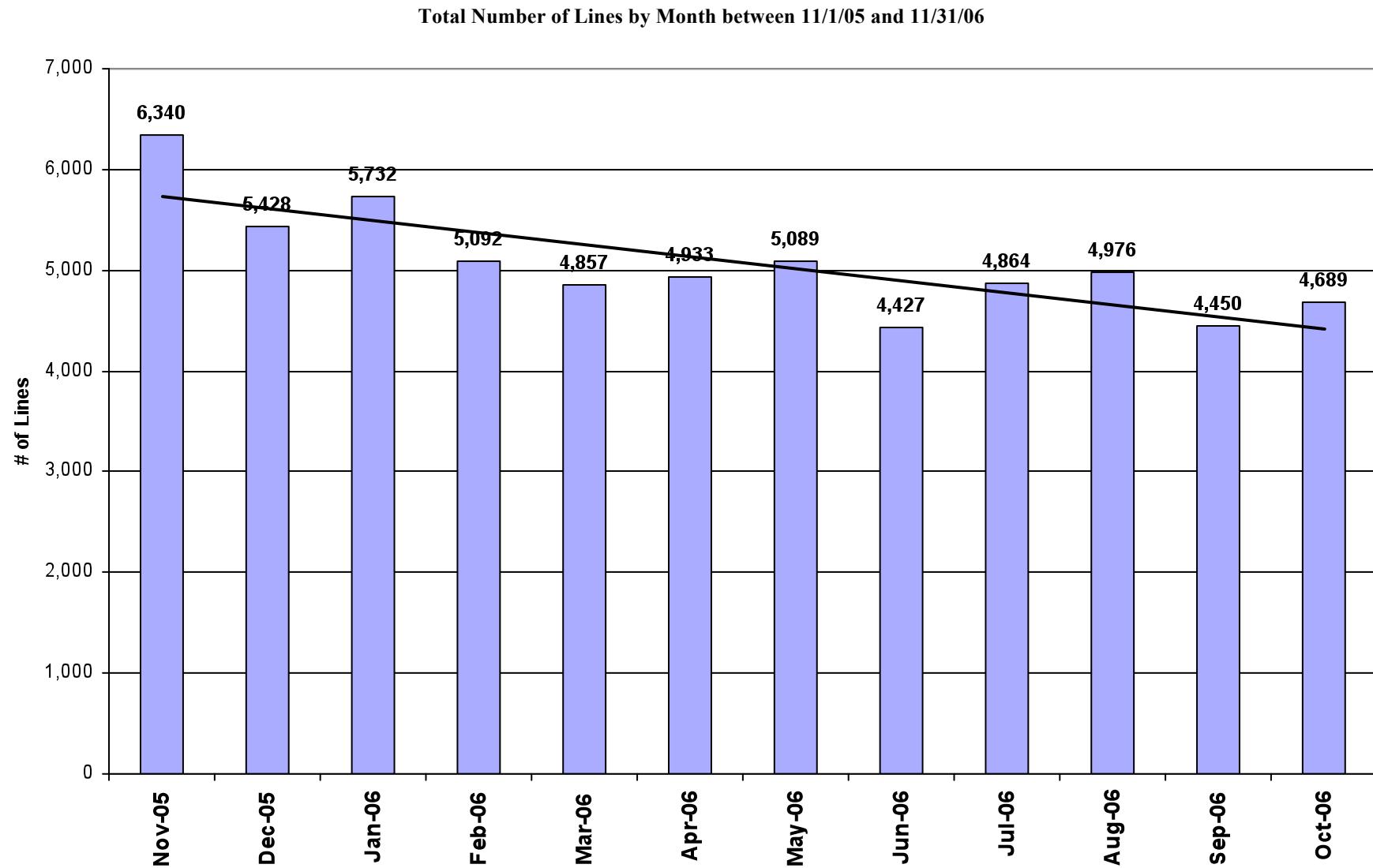


Figure 3. Total Lines by Month between 11/1/05 and 10/31/06

Total Number of Lines by Day of Week between 11/1/05 and 11/31/06

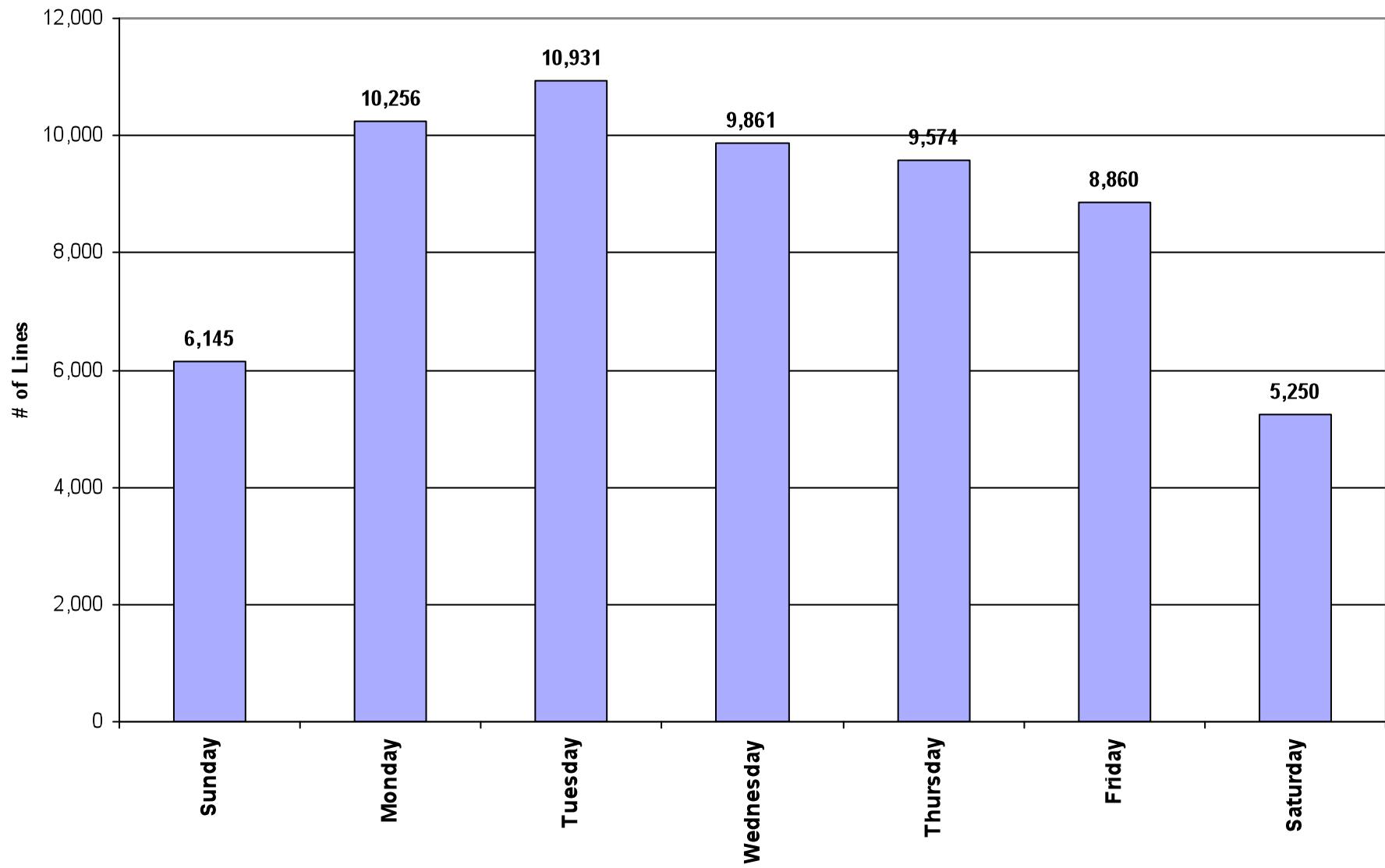


Figure 4. Lines by Day of Week between 11/1/05 and 10/31/06

Total Number of Lines by Hour of Day between 11/1/05 and 10/31/06

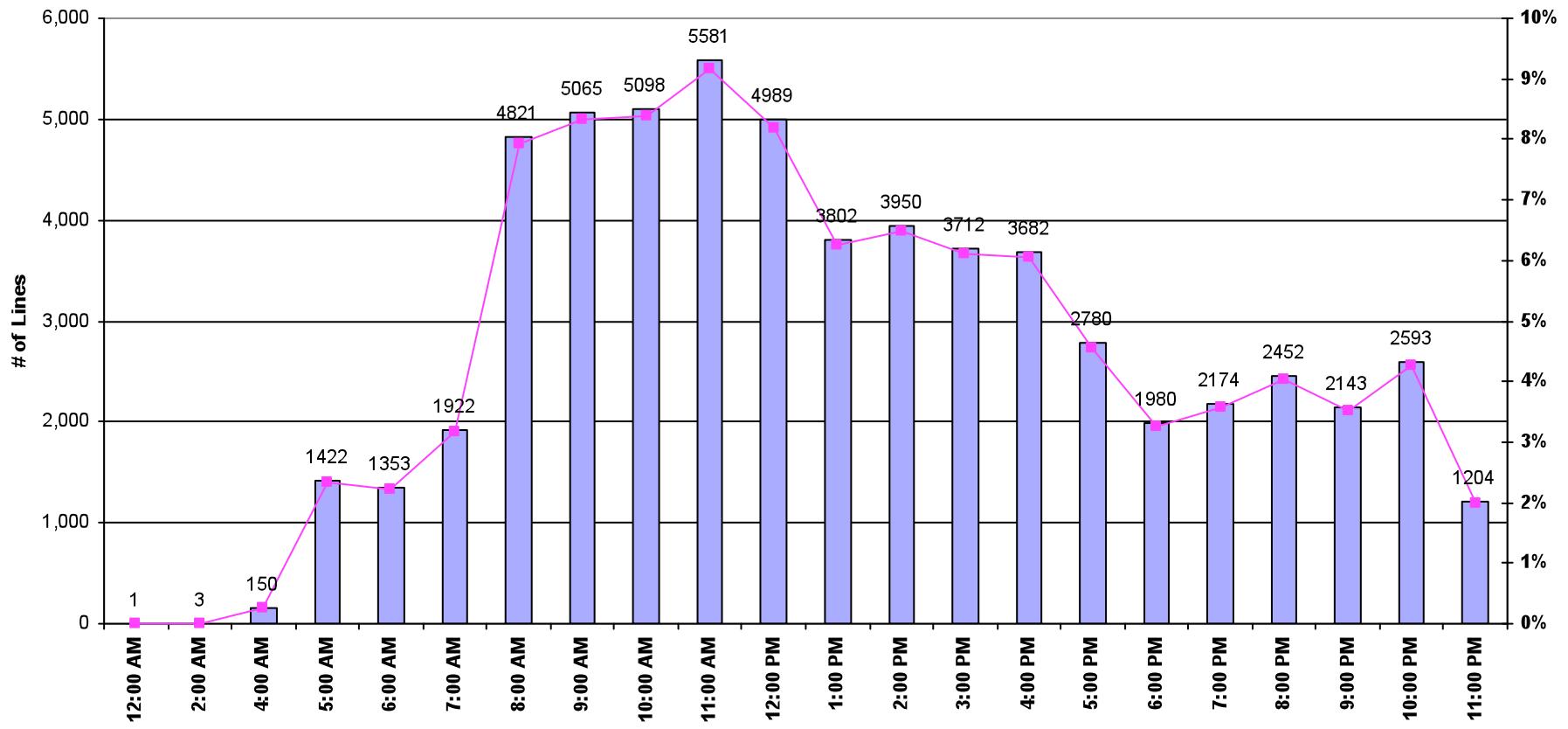


Figure 5. Lines by Hour of Day between 11/1/05 and 10/31/06

Further analysis of two of Materiel Services Center's highest supplemental callers, UMH 5DS (a surgical intensive care unit) and Mott Pod B/C (a pediatric intensive care unit), yielded the following:

UMH 5DS Top Supplemental Items by Lines Ordered between 8/1/06 and 10/31/06

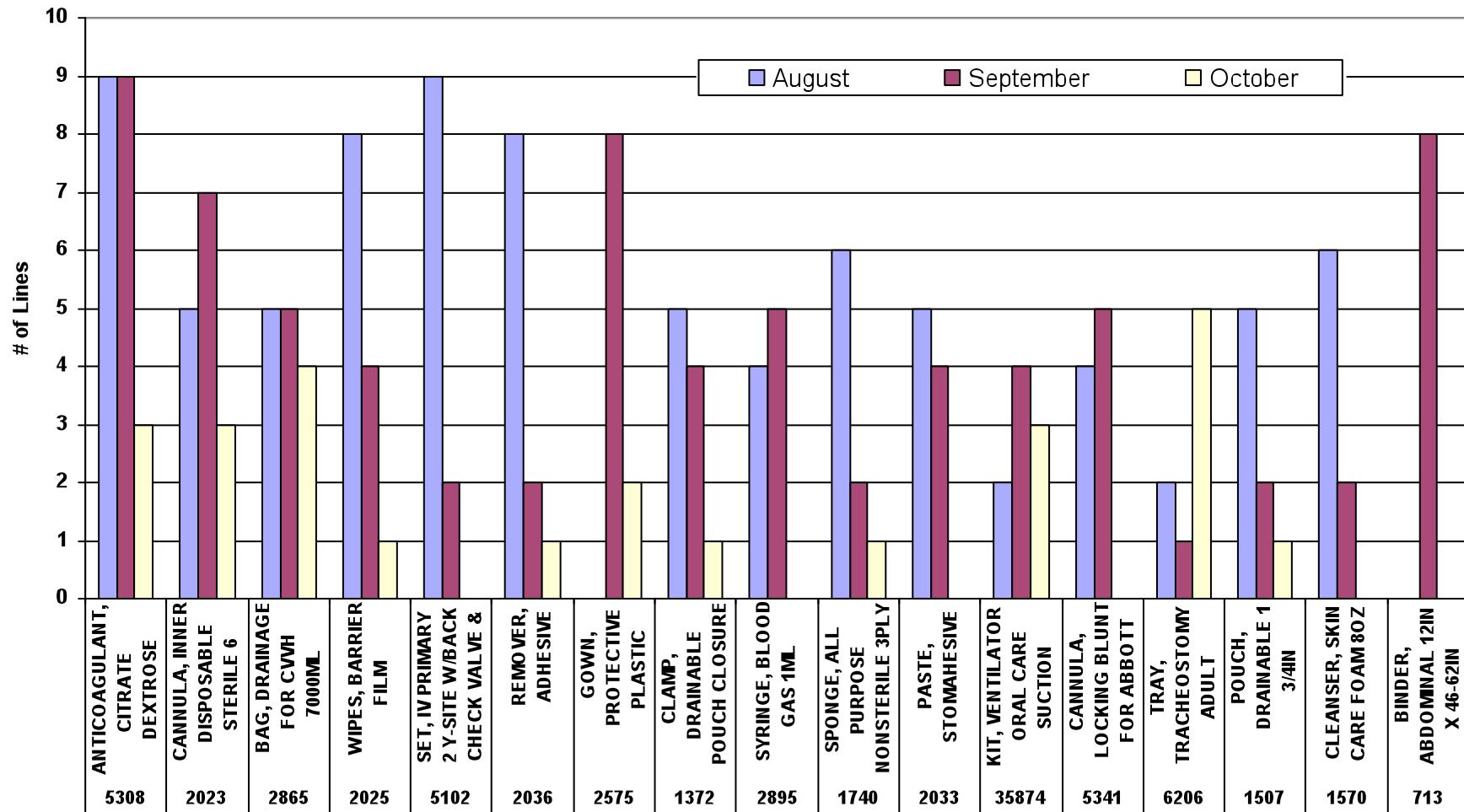


Figure 6. UMH 5DS (Surgical ICU) Top Items by Lines ordered between 8/1/06 and 10/31/06

Mott Pod B/C Top Supplemental Items by Lines Ordered between 8/1/06 and 10/31/06

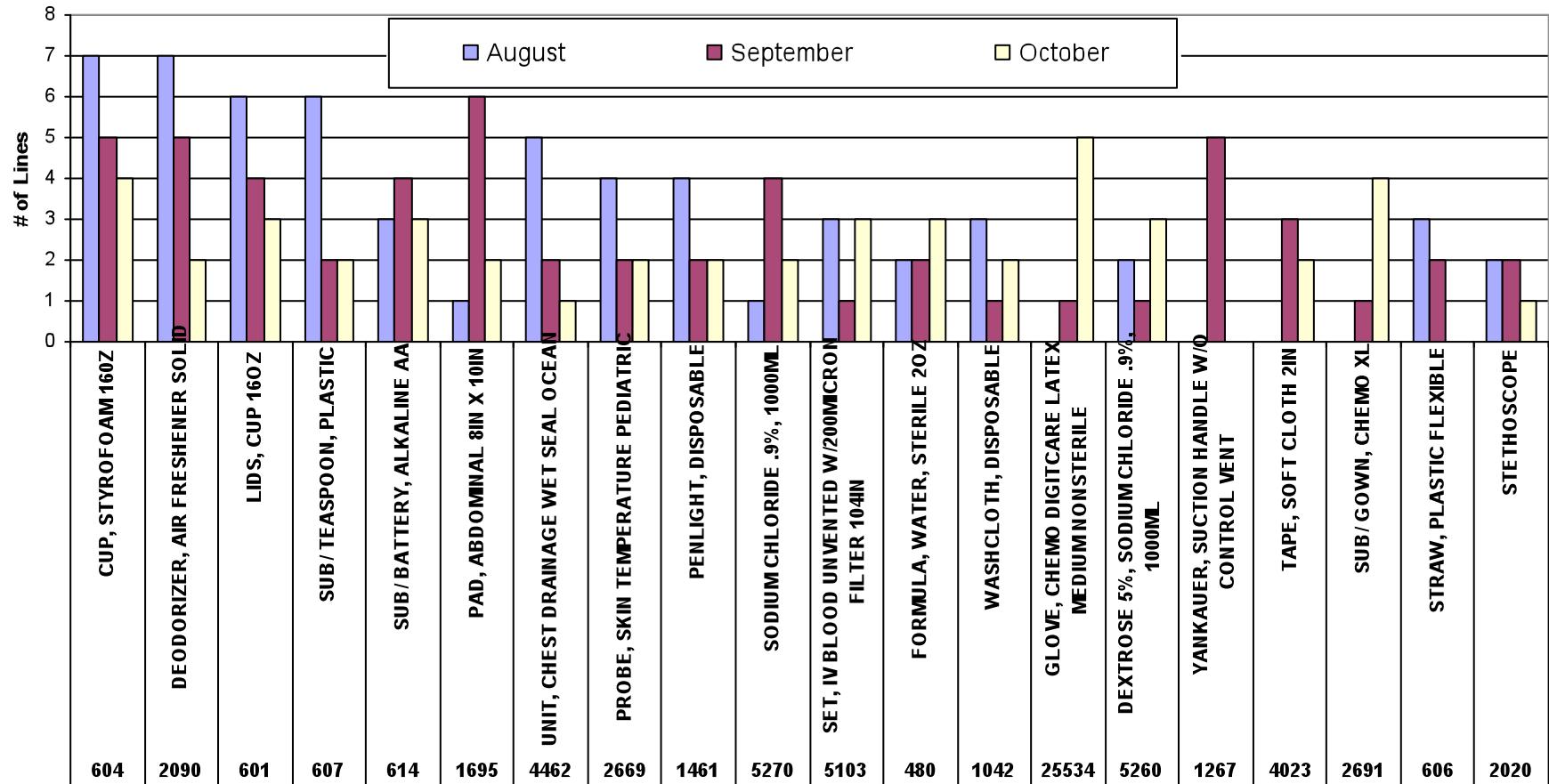


Figure 7. Mott Pod B/C (Pediatric ICU) Top 20 Items by Lines ordered between 8/1/06 and 10/31/06

Only three months of data was used when examining supplemental orders for each unit. Interviews with nursing staff from these units revealed that any unusual item usage prior to this time frame resulted in lack of recollection for any anomalies in the data. An interesting distinction between UMH 5DS and Mott Pod B/C is that Mott Pod B/C employs an “equipment technician”, whose job responsibilities include reviewing the stock levels of the nutrition room and supply room for any stockouts and calling MSC as supplemental items are needed.

Nurses from both units commented that they were not sure what some of these items were based on the descriptions listed above. Another shared comment between these two units was that many of their supplemental orders were due to their highly variant patient populations and that they were requesting items to meet a particular patient’s needs that they do not normally stock in their unit.

2. Billing inaccuracies

After a review of the supplemental order data in FinODS, a report was created detailing where supplemental orders were delivered and which department was charged. As a result of the manual process used by MSC CSR, billing errors became evident and they have been quantified at approximately \$50,000 or 30% in of the lines in the billing report over the 12 month period between 11/1/05 and 10/31/06. The delivery location (“ShipCust” in the raw data set) and the six digit department ID number billed (“DistType”) are both manually entered into FinODS which allows for typos and other errors. Appendix E provides a detailed report of the billing that occurred during this time frame. Journal entries to correct these billing errors are time consuming and costly as well as another manual process. All further analysis using this data set assumed the delivery location (“ShipCust”) to be the most accurate field, as advised by the warehouse manager in Materiel Services Center.

3. PAR Level Equation

The PAR level equation was assessed to validate whether or not it is generating a sufficient stock level for each (unit, item) combination. The current equation M-Pathways uses to generate PAR is:

$$\text{Item_PAR_Level} = \frac{\text{Average}}{\text{Divisor}} \times 1.4$$

Equation 1. Current PAR Level Calculation Equation

where *Average* is the average monthly demand, *Divisor* is a factor corresponding to the number of times per week that the unit is stocked, and the 1.4 constant creates a safety stock of 40%. The average monthly demand is calculated as the summation of daily quantity received for an item over a year divided by twelve. Daily quantity is defined as the total amount stocked by the stockkeeper and any additional volume brought to the unit via supplemental orders. However, credits issued to a unit are not taken into consideration in this calculation, which could result in slightly inflated PAR levels. This will be rectified in early 2007, when Materiel Picking Feedback (MPF) will be introduced into the PAR calculation software by MAIS. This update will take credits into account when calculating PAR level for a (unit, item) combination.

To reduce the likelihood of stockouts, the variance of the item’s daily demand should be taken into account in the PAR level equation. However, the equation currently does not do so and sets all (unit, item) combination PAR levels to be 1.4μ , where μ is the item’s average daily demand (*Average/Divisor*). This results in a different stockout probability for each (unit, item) combination that can be approximated by using supplemental order data. A proxy for the stockout probability ($1 - \alpha_1$) can

be found by dividing the number of days during a time period that a supplemental order was placed for a (unit, item) combination by the number of days in the time period. If a unit did not call for an item, the probability of stockout is zero.

By examining the PAR stocking and supplemental order data, the assumption that daily demand is normally distributed with mean, μ . Under this assumption, the optimal stocking level for a (unit, item) combination should satisfy the equation:

$$Q = \mu + z(\alpha) * \sigma$$

Equation 2. Optimal Order up-to Quantity under Assumption of Normal Demand

where μ is the item's mean demand, σ is the standard deviation of item demand, and $z(\alpha)$ denotes the one-sided z-statistic of the standard normal distribution corresponding to the probability of not stocking out of the item, α .

Since both Equation 1 and 2 calculate an item's daily PAR level, they can be set equal to each other. Solving for σ yields

$$\sigma = \frac{0.4 * \mu}{z(\alpha_1)}$$

Equation 3. Equation for Estimating Sigma

Substituting Equation 3 into Equation 2 for σ results in

$$Q = \mu + z(\alpha) * \frac{0.4 * \mu}{z(\alpha_1)}$$

Equation 4. New PAR Level Equation

Since it is very hard to place an exact value on the cost of stocking out, a common alternative is to use a service level in its place. Therefore, MSC can choose a Type 1 service level, the probability of not stocking out of a (unit, item) combination, that they want to achieve. When setting their service level, MSC should consider the cost of the item versus the labor cost required to deliver the item if ordered as a supplement, the cost of obsolescence if the item is left sitting on the cart, and the opportunity cost of the space that each additional item would consume. This Type 1 service level is equal to α and can be substituted into Equation 4. For example, if MSC decided upon a 99% service level, the PAR Equation would look like

$$Q = \mu + 0.4\mu * \frac{z(0.99)}{z(\alpha_1)}$$

This new equation will increase the PAR level for those items that have stocked out the most, causing both the number of stockouts and supplemental orders to decrease. This calculation is shown in detail in Appendix F.

Fortunately, out of the over 22,000 (unit, item) combinations, less than 500 have a probability of stockout of 4% or greater. Please refer to Appendix G for a sample of 534 (unit, item) combinations that

were stocked out at least 14 times (or 3.84% of the time) during the three-month period selected. New PAR levels for these (unit, item) combinations have been calculated.

Observations

Through observational studies and interviews, several categories of reasons for supplemental orders were identified. A taxonomy consisting of these categories was created as illustrated in Table 1.

1	2	3	4	5
Item Out of Stock on Cart	Nurse Cannot Find Item	PAR Level Issues	Not on PAR List	Non-Stock Item

Table 1. Categories of Taxonomy of Materiel Services Center's Supplemental Order Reasons

Table 2 summarizes potential explanations for why a supplemental order was placed into one of the categories in Table 1. This information was collected via observations and interviews with stockkeepers, runners and nurses.

1	2	3	4	5
Item Out of Stock on Cart	Nurse Can't Find Item	PAR Level Issues	Not on PAR List	Non-Stock Item
<ul style="list-style-type: none"> • Warehouse stockout • Cart not stocked to PAR that day by stockkeeper • PAR quantity too low • Another unit takes item for use • Unusual high usage of item on unit that day • Someone took item for the wrong reason • Cart not yet stocked that day 	<ul style="list-style-type: none"> • Lack of cart standardization • Cannot find item on PAR list on cart • Did not look for item on floor, but clerk does not know who ordered it • Unit does not receive item fast enough and reorders item 	<ul style="list-style-type: none"> • New item No scheduled review • Equation is wrong Nurse Manager does not realize high usage rate on unit and therefore does not increase PAR 	<ul style="list-style-type: none"> • Order directly from vendor • Does not want to stock on floor due to people taking item for inappropriate reasons • Too expensive to stock on cart • New item 	<ul style="list-style-type: none"> • Stockkeeper did not order • Item was not delivered in timely fashion once received

Table 2. Complete Taxonomy of Materiel Services Center's Supplemental Order Reasons with Causes

Item Out of Stock on Cart: This category explores why an item could not be found on the cart.

While a few of the ‘whys’ are stochastic random variables and out of MSC control, many are within their capacity to influence. A preliminary study of the degree to which the stockkeepers accurately inventory and stock the units was undertaken using a randomly selected nursing unit and PAR stocking order data from FinODS. However, due to the limited resources available for this project, these potential causes were not investigated long enough for any sound conclusions to be drawn.

Nevertheless, by reviewing the five ‘w’s – who, what, when, where, why – and how of the PAR stocking process, MSC management can determine if this is truly a contributor to the supplemental order problem.

Nurse cannot find item: This reason looks at why a nurse cannot find the item on his/her cart, despite the item actually being there, or after the supplemental order arrives to their unit.

After interviewing several nursing units, the reoccurring theme among all of them was the difference in nomenclature between Materiel Services Center and Nursing. Attached to each cart is a PAR list containing each item's quantity and location. However, this document lists the items by what MSC calls the item and not how the item is referred to by nursing staff. For example, the item nursing staff refers to as a cotton swab is called an “applicator, cotton tip 6in nonsterile” by Materiel Services Center.

Additionally, nursing staff have confirmed calling for supplemental items without looking in the stock room first or after taking only a cursory look. Also, clerks do not always know who ordered a supplemental item and therefore it never reaches the person who requested the item. Consequently, this often generates further supplemental calls until the item is received by the person who ordered it.

PAR Level Issues: This dimension addresses supplemental orders that are a result of problems related to the pre-determined item inventory level on a cart.

PAR levels are only recalculated on an as requested basis by the PAR Maintenance Staff in Materiel Services. As discussed in Section 3 above, the current equation used to calculate an item's PAR level is:

$$\text{Item_PAR_Level} = \frac{\text{Average}}{\text{Divisor}} \times 1.4$$

Not on PAR List: This category investigates why a nurse manager may not keep items stocked in MSC warehouse on their carts.

Although stocked by MSC, nurse managers are responsible for the items and quantities stocked on their carts. Nurse managers must take the initiative to adjust PAR levels due to an increase in an item's usage or to add a new item to their PAR list. Consequently, the ‘whys’ of this dimension are generally outside MSC’s span of influence.

Non-Stock Item: This classification focuses on why orders are placed for items that are not stocked in the MSC warehouse.

Supplemental calls for non-stock items are unavoidable as these low volume and/or high cost items are not kept in stock in the MSC warehouse. Unless the cost-benefit of these items rises to a justifiable level for adding them as regularly stocked warehouse items, this dimension does not require further investigation.

Other observed causes for preventable supplemental calls:

- Lack of notification to units when the warehouse is stocked out of an item and the stockkeeper is unable to fill unit to PAR. Units will place supplemental calls for these items.
- Quantity requested during supplement call was not filled completely. Subsequent orders placed to attain originally requested quantity.
- Nurses create unnecessary orders due to lack of information available from item descriptions posted in the MSC catalog.

Recommendations

Utilizing the taxonomy framework and the quantitative analysis results, the following recommendations are made to MSC management in their efforts to reduce supplemental order volume.

1. Change CSR data entry process for customer identification

Work with MAIS to implement a system which forces users to select from a predefined list of delivery locations and have the corresponding department ID automatically populate. This will eliminate the need for having the CSR manually enter department IDs and reduce the potential for error. An option to override will be made available for use when necessary.

2. Develop a standardized list of item nomenclature for all items in MSC warehouse

Create a committee of nursing staff and MSC staff to produce a directory of items, alphabetized by the nomenclature used by nurses that can be merged with the current PAR list on the carts. This will allow nurses to easily locate items in the stockroom. Since each stockroom layout is unique, this change will be particularly beneficial for nursing staff that float between units.

3. Create a more detailed description for each item in the online catalog

Providing more details about each item will facilitate nurses ordering the correct item the first time.

4. Label items being delivered with recipient's name

Items often end up in the stockroom when a clerk receives a supplemental order and does not know who the intended recipient is.

5. Develop system of notifying units of warehouse stockouts during PAR stocking process

This will reduce the number of unnecessary supplemental orders for stocked out items.

6. Encourage communication between unit and stockkeeper

Establish communication between stockkeepers and units. Nurse managers (or equipment technicians) can notify their stockkeeper of any unusual needs due to their patient population that day. This will result in saving their staff time later as they will no longer need to place a supplemental order.

7. Generate a PAR list review trigger

- a. Generate a trigger to notify MSC when a supplemental order is placed more than three times for a non-PAR item.
- b. Generate quarterly reports of supplemental orders to determine top customers. Review reports to detect trends and abnormalities and adjust PAR as necessary.

8. Educate MSC customers about services offered

Work with Public Relations and Marketing Communications (PRMC) to develop a brochure to educate units on services offered by MSC (e.g. ability to substock to an alternative location or bill an alternative org code) and on how to use MSC's services more effectively (communication about unit needs, encouraging nurse managers to review and update their PAR levels when necessary).

9. Adjust PAR levels as needed

After reviewing the current PAR level equation and supplemental and PAR stocking data, it is recommended that the PAR levels are to be revised on a quarterly basis, based on the previous quarter's data. This new equation takes into account the variance of demand as well as allowing

MSC to adjust the probability of stockout based on item cost or other factors such as holding or obsolescence cost.

Appendices

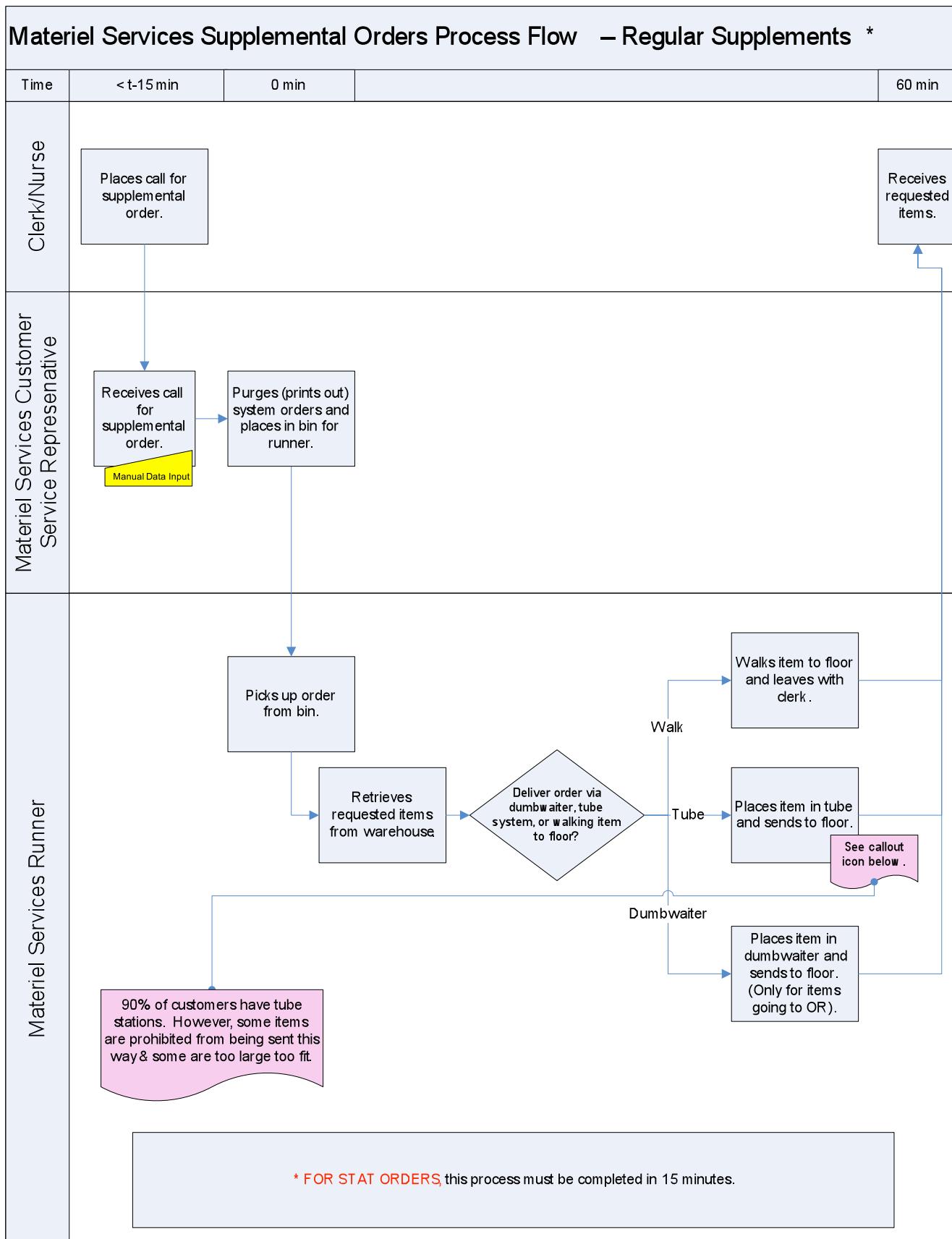
Appendix A. List of Customers excluded from the data set

The following “Ship to” customers were removed from the data set:

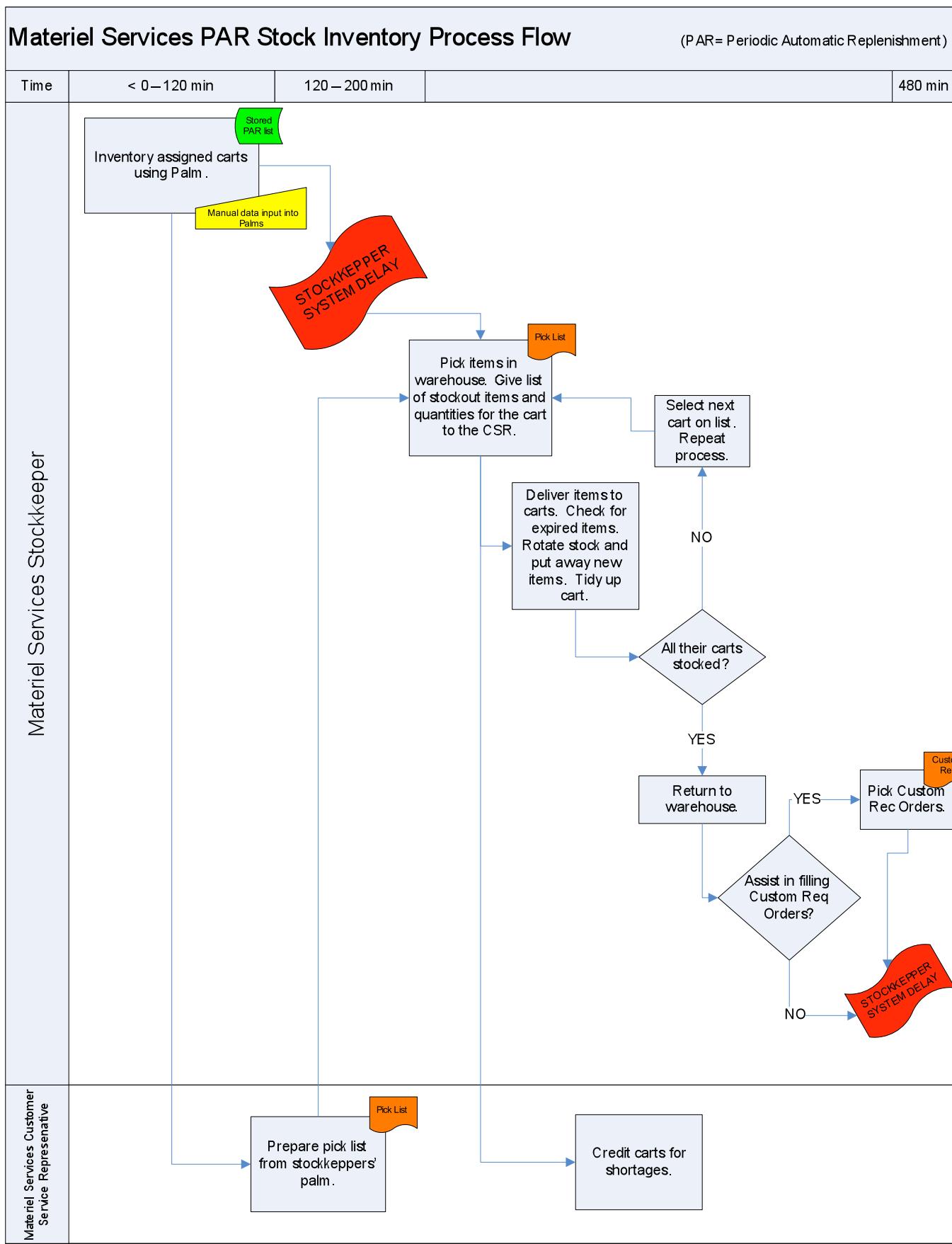
400NIB1221
BOCPMR
All BHC (Brighton Health Center)
All Briarwoods
All CHC (Canton Health Center)
All Chelsea
All Domino's Farms
All EAA (East Ann Arbor)
All MPU (Medical Procedures Unit)
All Eisenhower Parkway
All Helipad
All Kellogg
All Livonia
GCG 1170
KPRI
Kresge
MedSci
MFit
Reichart
Mott F1527
UMHB2F319
UMH1G403
UMHB1F423
UMHFB2408
MSCPICKUP
MSCDELIVERTO
UPJOHN
UMHB1F244YSB
UMB1F244YNS

All distribution types listed as “NONHOSP” were also removed.

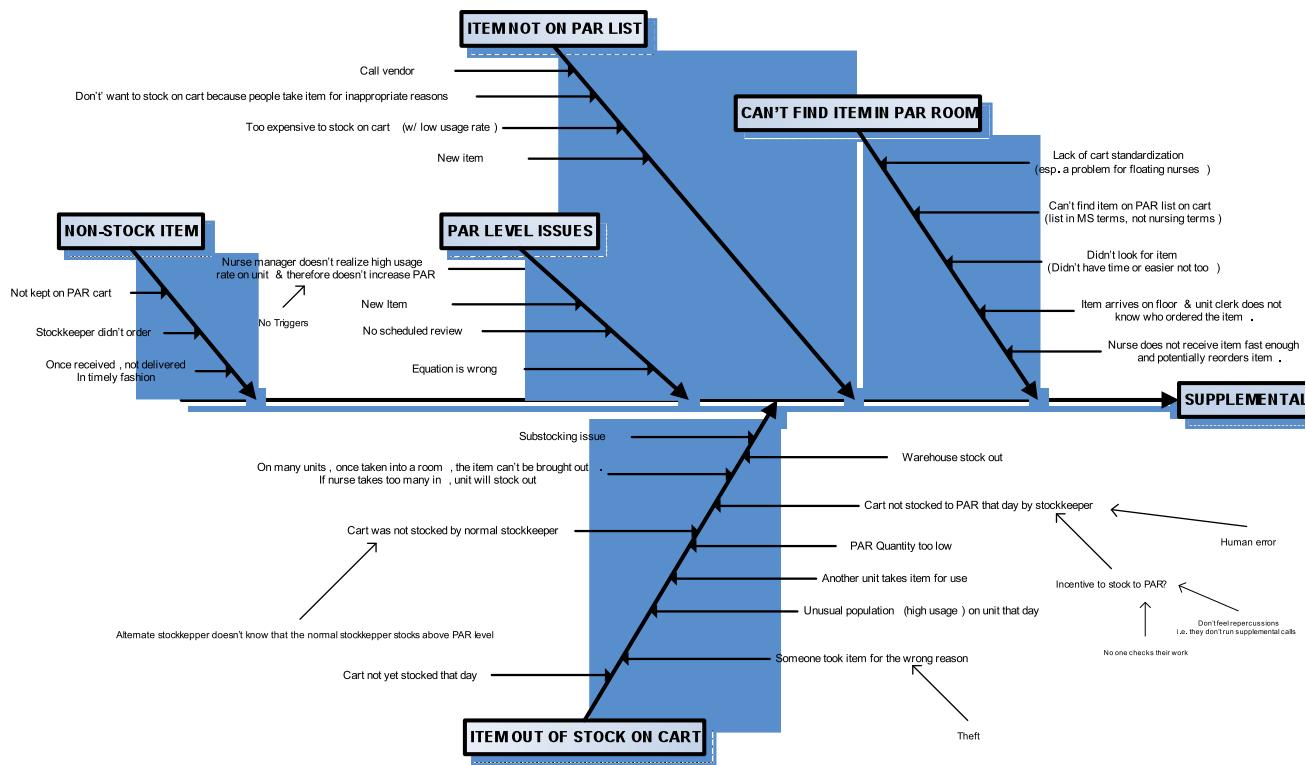
Appendix B. Process Flow Chart of Supplemental Orders Process



Appendix C. Process Flow Chart of PAR Stocking Process



Appendix D. Cause and Effect Diagram



Appendix E. Supplemental Order Billing Data

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
CGC1127	315227	UMH Photophersis Center	2	\$129.15 \$129.15
CGC1147	315200	UMH Dermatology-Tech	7	\$147.05 \$147.05
CGC1165SUT	315200	UMH Dermatology-Tech	5	\$365.29 \$365.29
CGC1165SUT	315200	UMH Dermatology-Tech	5	\$2,383.32 \$2,383.32
CGC1215	312329	UMH Team 6 Cancer Center	11	\$977.39 \$977.39
CGC1216	312329 312332 315119	UMH Team 6 Cancer Center UMH Team 3 Cancer Ctr UMH GC Soc Work & Comm Prgm	39 1 41	\$4,060.56 \$3.05 \$1,143.92 \$5,207.53
CGC1239	315200	UMH Dermatology-Tech	53	\$693.40 \$693.40
CGC1242	315200	UMH Dermatology-Tech	2	\$61.17 \$61.17
CGC1347	312329 315119 315869	UMH Team 6 Cancer Center UMH GC Soc Work & Comm Prgm UMH Turner Core Prof	2 1 11	\$148.38 \$1.70 \$76.37 \$226.45
CGC1347TM6	312329	UMH Team 6 Cancer Center	13	\$192.39 \$192.39
CGC1349	312329	UMH Team 6 Cancer Center	27	\$5,193.25 \$5,193.25
CGC1364	312336 314804	UMH Infusion Cancer Center UMH CC Canton Infusion	7 2	\$195.87 \$118.26 \$314.13
CGC1367	315805	UMH Team 5 Cancer Center	1	\$3.12 \$3.12
CGC2420	312336	UMH Infusion Cancer Center	10	\$202.73 \$202.73

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
CGC2420A	312336	UMH Infusion Cancer Center	1	\$15.15 \$15.15
CGC6303	316450	UMH Hem/Onc 8A Bmt	1	\$61.28 \$61.28
CGCB1100	312336	UMH Infusion Cancer Center	1	\$7.60 \$7.60
CGCB1100B	312336	UMH Infusion Cancer Center	1	\$5.36 \$5.36
CGCB1100D	312336	UMH Infusion Cancer Center	7	\$64.05 \$64.05
CGCB1116	315152	UMH CGC Infusion Pharmacy	80	\$5,072.28 \$5,072.28
CGCB1120	312336	UMH Infusion Cancer Center	13	\$2,544.46 \$2,544.46
CGCB1120A	312332 312336	UMH Team 3 Cancer Ctr UMH Infusion Cancer Center	3 133	\$97.92 \$11,778.76 \$11,876.68
CGCB1120D	315336 312336	UMH BHA Allergy Tech UMH Infusion Cancer Center	1 128	\$260.18 \$4,054.40 \$4,314.58
CGCB1180	315152	UMH CGC Infusion Pharmacy	40	\$758.70 \$758.70
CGCB1216	315119	UMH GC Soc Work & Comm Prgm	2	\$186.11 \$186.11
CGCB1229	312332	UMH Team 3 Cancer Ctr	12	\$2,502.05 \$2,502.05
CGCB1245	312332	UMH Team 3 Cancer Ctr	1	\$14.39 \$14.39
CGCB1256	314450	UMH Ambulatory Care Pharmacy	5	\$185.94 \$185.94
CGCB1257	312332	UMH Team 3 Cancer Ctr	41	\$750.54 \$750.54

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Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
CGCB1257NS	312332	UMH Team 3 Cancer Ctr	2	\$50.80 \$50.80
CGCB1286	314450	UMH Ambulatory Care Pharmacy	82	\$1,955.11 \$1,955.11
CGCB1344	312336 315253	UMH Infusion Cancer Center UMH Team 1 Cancer Center	26 2	\$3,062.37 \$71.82 \$3,134.19
CGCB1358	315253	UMH Team 1 Cancer Center	2	\$90.90 \$90.90
CGCB1415	315253	UMH Team 1 Cancer Center	2	\$85.85 \$85.85
CGCB1422	312332	UMH Team 3 Cancer Ctr	1	\$2.49 \$2.49
CGCB1431	312332	UMH Team 3 Cancer Ctr	1	\$10.23 \$10.23
CGCB1432	312332	UMH Team 3 Cancer Ctr	1	\$46.64 \$46.64
CGCB1433	315805 312332 312336	UMH Team 5 Cancer Center UMH Team 3 Cancer Ctr UMH Infusion Cancer Center	2 211 2	\$129.76 \$9,326.82 \$31.89 \$9,488.47
CGCB1435	312332	UMH Team 3 Cancer Ctr	1	\$30.30 \$30.30
CGCB1506	312336 315336	UMH Infusion Cancer Center UMH BHA Allergy Tech	34 1	\$2,512.17 \$57.62 \$2,569.78
CGCB1525	312336 315805	UMH Infusion Cancer Center UMH Team 5 Cancer Center	63 1	\$370.75 \$30.30 \$401.05
CGCB1531	315253	UMH Team 1 Cancer Center	3	\$78.30 \$78.30
CGCB1545	312332 315805	UMH Team 3 Cancer Ctr UMH Team 5 Cancer Center	3 56	\$12.86 \$678.25 \$691.10

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
CGCB2201	316041	UMH B2 Procedure Rm Cancer Ctr	4	\$303.73 \$303.73
CGCB2205	315941	UMH Radiology-Mammography	1	\$103.32 \$103.32
CGCB2221	317542	UMH Path O/P Phlebotomy	6	\$610.01 \$610.01
CGCB2300	315941	UMH Radiology-Mammography	1	\$71.20 \$71.20
CGCB2301	316041	UMH B2 Procedure Rm Cancer Ctr	10	\$480.83 \$480.83
CGCB2301A	315100 316041	UMH-T Anesthesia UH UMH B2 Procedure Rm Cancer Ctr	9 74	\$71.96 \$3,432.87 \$3,504.83
CGCB2301B	316041	UMH B2 Procedure Rm Cancer Ctr	25	\$2,627.57 \$2,627.57
CGCB2301F	315227	UMH Photophersis Center	148	\$472,788.62 \$472,788.62
CGCB2317	315941	UMH Radiology-Mammography	68	\$3,667.29 \$3,667.29
CGCB2317NS	315941	UMH Radiology-Mammography	2	\$136.26 \$136.26
CGCB2323	317542	UMH Path O/P Phlebotomy	14	\$851.55 \$851.55
CGCB2420	312336	UMH Infusion Cancer Center	2	\$35.35 \$35.35
HELIPADB220	315539	UMH Survival Flight	1	\$8.62 \$8.62
HOLDENF4353	316740	UMH Holden ICU Nursery	2	
MCHC4E	316450 316540	UMH Hem/Onc 8A Bmt UMH WH4 - Womens Birth Center	1 121	\$9.86 \$6,425.65 \$6,435.51

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MCHC4W	316540	UMH WH4 - Womens Birth Center	5	\$153.05 \$153.05
MCHCF1210	315490	UMH Ped Cardiology - Tech	11	\$493.29 \$493.29
MCHCF1222	315490	UMH Ped Cardiology - Tech	1	\$20.69 \$20.69
MCHCF1225	315490	UMH Ped Cardiology - Tech	2	\$90.69 \$90.69
MCHCF1227	315490	UMH Ped Cardiology - Tech	12	\$3,607.74 \$3,607.74
MCHCF1228	315490	UMH Ped Cardiology - Tech	1	\$2.17 \$2.17
MCHCF1310	315490	UMH Ped Cardiology - Tech	2	\$112.94 \$112.94
MCHCF1454	315490	UMH Ped Cardiology - Tech	33	\$3,723.80 \$3,723.80
MCHCF1531B	315490	UMH Ped Cardiology - Tech	5	\$245.25 \$245.25
MCHCF2022	318274	UMH Nsg Caph Level 5 And Cap6	2	\$14.99 \$14.99
MCHCF2300	317680	UMH Peds Pulmonary Function	2	\$51.92 \$51.92
MCHCF3101	316625	UMH Post Anes Care Unit - Mott	53	\$2,691.91 \$2,691.91
MCHCF3313	315970	UMH Nuclear Medicine	1	\$1.64 \$1.64
MCHCF4134	316540	UMH WH4 - Womens Birth Center	3	\$97.52 \$97.52
MCHCF4138	316540	UMH WH4 - Womens Birth Center	8	\$128.81 \$128.81

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MCHCF4142	316540	UMH WH4 - Womens Birth Center	2	\$34.00
				\$34.00
MCHCF4158	316540	UMH WH4 - Womens Birth Center	45	\$2,807.55
				\$2,807.55
MCHCF4177	315102	UMH -T Anesthesia Ob	3	\$18.96
				\$18.96
MCHCF4360	316750 316740	UMH Nsg Mott Ped ICU UMH Holden ICU Nursery	3 86	\$22.56 \$1,314.31
				\$1,336.87
MCHCF4366	316740	UMH Holden ICU Nursery	1	\$650.00
				\$650.00
MCHCF4371	316740	UMH Holden ICU Nursery	2	\$247.58
				\$247.58
MCHCF4390	316740	UMH Holden ICU Nursery	1	\$42.00
				\$42.00
MCHCF5124	316750	UMH Nsg Mott Ped ICU	152	\$6,679.32
				\$6,679.32
MCHCF5124B	316750	UMH Nsg Mott Ped ICU	3	\$135.93
				\$135.93
MCHCF5125	316750	UMH Nsg Mott Ped ICU	3	\$26.02
				\$26.02
MCHCF5134	316740 316750 316690	UMH Holden ICU Nursery UMH Nsg Mott Ped ICU UMH NSG MOTT 7M	1 667 1	\$15.00 \$19,969.33 \$1.76
				\$19,986.09
MCHCF5134N	316750	UMH Nsg Mott Ped ICU	1	\$20.46
				\$20.46
MCHCF5202	314430	UMH Inpatient Pharmacy Svcs	2	\$25.92
				\$25.92

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MCHCF5205				
	314420	UMH Pharmacy Administration	1	\$12.80
	317220	UMH Unit Mgmt Mott-5	2	\$16.10
	316750	UMH Nsg Mott Ped ICU	1	\$12.78
	314430	UMH Inpatient Pharmacy Svcs	168	\$5,039.09
	314450	UMH Ambulatory Care Pharmacy	1	\$28.90
				\$5,109.67
MCHCF5312A				
	316750	UMH Nsg Mott Ped ICU	1	\$5.90
				\$5.90
MCHCF5326				
	316760	UMH Ped Cardio/Thor ICU	1	
MCHCF5326N				
	316760	UMH Ped Cardio/Thor ICU	1	\$37.16
				\$37.16
MCHCF5328				
	316760	UMH Ped Cardio/Thor ICU	64	\$3,872.42
				\$3,872.42
MCHCF6002				
	318274	UMH Nsg Caph Level 5 And Cap6	1	\$11.94
				\$11.94
MCHCF6022				
	318274	UMH Nsg Caph Level 5 And Cap6	136	\$1,250.73
				\$1,250.73
MCHCF6202				
	318274	UMH Nsg Caph Level 5 And Cap6	4	\$26.04
				\$26.04
MCHCF6308				
	318274	UMH Nsg Caph Level 5 And Cap6	10	\$111.53
				\$111.53
MCHCHOLDE				
	316760	UMH Ped Cardio/Thor ICU	2	\$87.75
	316665	UMH NSG Mott 6M	1	\$0.00
	317220	UMH Unit Mgmt Mott-5	1	\$120.20
	314760	UMH Pm&R - Ot Mott	2	\$139.88
	316750	UMH Nsg Mott Ped ICU	6	\$370.68
	316140	UMH Trauma Burn ICU	3	\$5.99
	316740	UMH Holden ICU Nursery	1363	\$40,446.14
				\$41,170.63
MCHCPODA				
	315760	UMH Surgery Admin	3	\$289.41
	316740	UMH Holden ICU Nursery	4	\$88.80
	316750	UMH Nsg Mott Ped ICU	21	\$739.69
	316760	UMH Ped Cardio/Thor ICU	2149	\$85,702.26
				\$86,820.16

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MCHCPODB/C				
316760	UMH Ped Cardio/Thor ICU		13	\$453.63
317220	UMH Unit Mgmt Mott-5		2	\$133.15
316750	UMH Nsg Mott Ped ICU		3004	\$93,078.28
316150	UMH Nursing 4D Neuro ICU		2	\$56.48
315760	UMH Surgery Admin		2	\$90.22
314730	UMH Oper Room - Mott		1	\$53.40
316740	UMH Holden ICU Nursery		1	\$9.15
				\$93,874.31
MEDEQUIP5270				
315870	UMH Peritoneal Dialysis - Tech		1	\$390.00
				\$390.00
MEDINNC108				
316015	UMH Central Staff Resource		4	\$27.23
				\$27.23
MEDINNC133				
316018	UMH Nursing Business Operation		1	\$8.16
				\$8.16
MEDINNC166A				
315665	UMH Vestiblr Test - Tech		11	\$128.26
				\$128.26
MEDINNC168				
314425	UMH Vascular Access Team		211	\$44,510.23
				\$44,510.23
MEDINNC213				
315005	UMH-T Ctr for Interv Pain Med		3	\$54.92
				\$54.92
MEDINNC222				
315005	UMH-T Ctr for Interv Pain Med		2	\$69.89
				\$69.89
MEDINNC233				
315005	UMH-T Ctr for Interv Pain Med		44	\$3,244.32
				\$3,244.32
MEDINNC302				
316300	UMH Crc-Patient Care/Peds		93	\$2,245.96
				\$2,245.96
MEDINNC307				
316300	UMH Crc-Patient Care/Peds		7	\$265.45
				\$265.45
MEDINNC314				
315640	UMH Photochem/Psoriasis Svcs		4	\$40.67
				\$40.67
MEDINNC322				
315005	UMH-T Ctr for Interv Pain Med		1	\$23.77
				\$23.77
MEDINNC380				
315545	UMH Employee Health Svc		2	\$670.12
				\$670.12

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MEDINNC441	316070	UMH Educat Svcs-Nursing	35	\$899.22
				\$899.22
MEDINNC445	316027 315851	UMH Wound Care Nursing Inptnt UMH Ua Prof/Nonclinic	74 61	\$3,008.43 \$2,671.13
				\$5,679.56
MEDINNC453	312336	UMH Infusion Cancer Center	63	\$3,259.33
				\$3,259.33
MEDINNC460	312336	UMH Infusion Cancer Center	19	\$555.36
				\$555.36
MEDINNC461	312336	UMH Infusion Cancer Center	18	\$573.82
				\$573.82
MEDINNC463	312336	UMH Infusion Cancer Center	1	\$3.60
				\$3.60
MEDSCI7433	F004989		1	\$317.87
				\$317.87
MFIT2850	315426 G004084	UMH Mfit Corporate Wellness	1 1	\$65.98 \$1.31
				\$67.29
MOTT3586OR	314730	UMH Oper Room - Mott	1	\$7.83
				\$7.83
MOTT4E	316350 317540 317220 316665 316450 316245 316150 315102 316540	UMH 4A Neuro-Neurosurg UMH Path Reference Tests UMH Unit Mgmt Mott-5 UMH NSG Mott 6M UMH Hem/Onc 8A Bmt UMH 5A Ortho/Trauma UMH Nursing 4D Neuro ICU UMH -T Anesthesia Ob UMH WH4 - Womens Birth Center	1 3 1 2 1 1 1 2 316	\$9.79 \$300.63 \$1.36 \$70.02 \$5.24 \$8.57 \$4.85 \$141.84 \$15,383.23
				\$15,925.53
MOTT4W	315102 316245 316320 316450 316540 316690 317220	UMH -T Anesthesia Ob UMH 5A Ortho/Trauma UMH Nursing - SWAT UMH Hem/Onc 8A Bmt UMH WH4 - Womens Birth Center UMH NSG MOTT 7M UMH Unit Mgmt Mott-5	4 2 1 2 500 3 2	\$679.47 \$40.44 \$98.10 \$29.94 \$25,268.51 \$11.93 \$0.68
				\$26,129.07

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MOTT5E				
	316750	UMH Nsg Mott Ped ICU	1	\$4.80
	317720	UMH Special Chemistry	3	\$99.20
	316760	UMH Ped Cardio/Thor ICU	1	\$29.95
	316220	UMH Nursing 6B Medicine	3	\$6.03
	315220	UMH Med Proc Unit - Tech	1	\$1.78
	314640	UMH Oper Rooms - Univ Hospital	1	\$56.79
	317220	UMH Unit Mgmt Mott-5	790	\$20,276.01
	316540	UMH WH4 - Womens Birth Center	5	\$90.39
				\$20,564.96
MOTT5W				
	316690	UMH NSG MOTT 7M	2	\$64.79
	317220	UMH Unit Mgmt Mott-5	1603	\$25,466.79
	316665	UMH NSG Mott 6M	1	\$73.97
	316540	UMH WH4 - Womens Birth Center	2	\$99.08
	317720	UMH Special Chemistry	1	\$9.30
				\$25,713.93
MOTT6E				
	316140	UMH Trauma Burn ICU	1	\$3.70
	316540	UMH WH4 - Womens Birth Center	1	\$0.00
	316665	UMH NSG Mott 6M	871	\$20,071.44
				\$20,075.14
MOTT6M				
	316665	UMH NSG Mott 6M	1	\$1.45
				\$1.45
MOTT6W				
	314430	UMH Inpatient Pharmacy Svcs	4	\$62.36
	317220	UMH Unit Mgmt Mott-5	7	\$96.37
	316690	UMH NSG MOTT 7M	2	\$16.31
	316540	UMH WH4 - Womens Birth Center	1	\$22.31
	316665	UMH NSG Mott 6M	1098	\$21,805.61
				\$22,002.97
MOTT7				
	316690	UMH NSG MOTT 7M	13	\$948.91
				\$948.91
MOTT7E				
	316540	UMH WH4 - Womens Birth Center	27	\$1,174.35
	316690	UMH NSG MOTT 7M	117	\$1,596.13
	317220	UMH Unit Mgmt Mott-5	3	\$191.35
				\$2,961.84
MOTT7W				
	316100	UMH Nursing 7D Ccu	1	\$0.75
	316460	UMH 7 B/C Cardiology	1	\$14.39
	316540	UMH WH4 - Womens Birth Center	4	\$107.55
	316690	UMH NSG MOTT 7M	1056	\$19,501.90
	316740	UMH Holden ICU Nursery	1	\$9.30
	317220	UMH Unit Mgmt Mott-5	4	\$118.67
	318568	UMH C & FL - Gifts	6	\$91.57
				\$19,844.13

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MOTTF1527	315490	UMH Ped Cardiology - Tech	91	\$178,760.68 \$178,760.68
MOTTF1531	315490	UMH Ped Cardiology - Tech	1	\$52.35 \$52.35
MOTTF1533	205490 315490 315940	UMH Ped Cardiology - Tech UMH Radiology/Gu/Gi/lp Gen Ima	1 26 1	\$4.07 \$4,083.75 \$34.90 \$4,122.72
MOTTF1604	315490	UMH Ped Cardiology - Tech	2	\$22.46 \$22.46
MOTTF1621	315694	UMH Pediatric Dialysis	3	\$2,004.70 \$2,004.70
MOTTF1621N	315694	UMH Pediatric Dialysis	5	\$9,220.80 \$9,220.80
MOTTF1623Z	312100 312120 312150	UMH Food Production UMH Food Procurement UMH Patient Food Svcs	3 43 5	\$0.01 \$464.42 \$39.16 \$503.59
MOTTF2593*	317805	UMH Pm&R Phys Thpy-Dme	2	\$34.80 \$34.80
MOTTF2593A	314740	UMH Pm&R Admin-Mott	1	\$21.66 \$21.66
MOTTF2803	314905 314908	UMH Laundry Administration UMH Laundry Distribution	3 119	\$47.23 \$179.46 \$226.69
MOTTF3064	314730	UMH Oper Room - Mott	6	\$557.48 \$557.48
MOTTF3335Z	314730	UMH Oper Room - Mott	2	\$16.73 \$16.73
MOTTF3430	316665 316625	UMH NSG Mott 6M UMH Post Anes Care Unit - Mott	1 362	\$278.78 \$25,610.06 \$25,888.84

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MOTTF3440				
	316625	UMH Post Anes Care Unit - Mott	223	\$6,268.31
	316665	UMH NSG Mott 6M	1	\$2.50
				\$6,270.81
MOTTF3462				
	316625	UMH Post Anes Care Unit - Mott	22	\$244.43
				\$244.43
MOTTF3504				
	315944	UMH Radiology-Comp Tomogr	3	\$177.07
				\$177.07
MOTTF3540				
	316625	UMH Post Anes Care Unit - Mott	3	\$131.15
				\$131.15
MOTTF3584				
	314730	UMH Oper Room - Mott	11	\$1,429.41
				\$1,429.41
MOTTF3586				
	314730	UMH Oper Room - Mott	7	\$427.29
				\$427.29
MOTTF3586O				
	314730	UMH Oper Room - Mott	48	\$2,568.82
				\$2,568.82
MOTTF3602				
	314730	UMH Oper Room - Mott	17	\$2,171.55
				\$2,171.55
MOTTF3604				
	314730	UMH Oper Room - Mott	21	\$485.30
				\$485.30
MOTTF3605A				
	315410	UMH-T Anesthesia Mott	10	\$708.13
				\$708.13
MOTTF3605A				
	315410	UMH-T Anesthesia Mott	2	\$206.28
				\$206.28
MOTTF3619				
	315140	UMH BHA Core	2	\$308.70
	315410	UMH-T Anesthesia Mott	696	\$68,922.26
	314640	UMH Oper Rooms - Univ Hospital	1	\$579.86
				\$69,810.82
MOTTF3756				
	315939	UMH Radiology-Magn Res	1	\$760.00
	315410	UMH-T Anesthesia Mott	1	\$48.90
				\$808.90
MOTTF3756H				
	315410	UMH-T Anesthesia Mott	57	\$4,505.89
				\$4,505.89

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MOTTF3764	315939	UMH Radiology-Magn Res	13	\$129.86 \$129.86
MOTTF3764N	315939	UMH Radiology-Magn Res	2	\$734.03 \$734.03
MOTTF3774	314730	UMH Oper Room - Mott	9	\$15,981.32 \$15,981.32
MOTTF3852	315710	UMH Pediatric Surg - Tech	3	\$874.35 \$874.35
MOTTF3857	316750	UMH Nsg Mott Ped ICU	1	\$650.00 \$650.00
MOTTF3867	317510 315710	UMH Path Supply Inventory UMH Pediatric Surg - Tech	2 6	\$557.58 \$276.65 \$834.23
MOTTF3970	315940	UMH Radiology/Gu/Gi/lp Gen Ima	1	\$0.77 \$0.77
MOTTF4522	316540	UMH WH4 - Womens Birth Center	8	\$67.84 \$67.84
MOTTF4530	316450 318274	UMH Hem/Onc 8A Bmt UMH Nsg Caph Level 5 And Cap6	1 1	\$5.01 \$87.50 \$92.51
MOTTF4534	316540	UMH WH4 - Womens Birth Center	3	\$20.26 \$20.26
MOTTF4677	316540	UMH WH4 - Womens Birth Center	3	
MOTTF4806	314747	UMH Perinatal Assessment Ctr	2	\$58.54 \$58.54
MOTTF4811	314747	UMH Perinatal Assessment Ctr	1	\$16.86 \$16.86
MOTTF5504	314430	UMH Inpatient Pharmacy Svcs	1	\$49.56 \$49.56
MOTTF5515	317220	UMH Unit Mgmt Mott-5	3	\$114.01 \$114.01

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MOTTF5517	317220	UMH Unit Mgmt Mott-5	15	\$214.90 \$214.90
MOTTF5518	317220	UMH Unit Mgmt Mott-5	39	\$546.44 \$546.44
MOTTF5526	317220	UMH Unit Mgmt Mott-5	19	\$150.54 \$150.54
MOTTF5534	317220	UMH Unit Mgmt Mott-5	5	\$316.81 \$316.81
MOTTF5679	317220	UMH Unit Mgmt Mott-5	13	\$148.35 \$148.35
MOTTF5684	317220	UMH Unit Mgmt Mott-5	2	\$27.65 \$27.65
MOTTF5687	317220	UMH Unit Mgmt Mott-5	3	\$78.94 \$78.94
MOTTF5790	311665 315680	UMH Graduate Medical Education UMH Non-Contract Other HO Peds	2 3	\$743.42 \$11.08 \$754.51
MOTTF5805	314770 314430 314470 314700	UMH Mott Resp Therapy UMH Inpatient Pharmacy Svcs UMH Echocardio Technical UMH Resp/Cardiov Svcs	190 4 7 2	\$33,192.25 \$360.17 \$608.44 \$50.57 \$34,211.43
MOTTF5805M	314470 314730 314770	UMH Echocardio Technical UMH Oper Room - Mott UMH Mott Resp Therapy	1 1 5	\$75.32 \$175.78 \$640.55 \$891.65
MOTTF5815	204770 314770	UMH Mott Resp Therapy	2 2	\$21.30 \$21.30 \$42.60
MOTTF5826	317685	UMH Ecmo	83	\$10,407.76 \$10,407.76
MOTTF5826O	317685	UMH Ecmo	1	\$635.04 \$635.04

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MOTTF5850	317685	UMH Ecmo	4	\$1,442.05
				\$1,442.05
MOTTF6518	314640 316665	UMH Oper Rooms - Univ Hospital UMH NSG Mott 6M	1 10	\$0.64 \$143.01
				\$143.66
MOTTF6519	316665	UMH NSG Mott 6M	1	\$650.00
				\$650.00
MOTTF6534	316665	UMH NSG Mott 6M	2	\$349.91
				\$349.91
MOTTF6547	315492 315696 315694	UMH Ped Peritoneal Dialysis UMH Peds Acute Dialysis UMH Pediatric Dialysis	5 1 121	\$921.04 \$7.80 \$20,460.68
				\$21,389.52
MOTTF6790	315694	UMH Pediatric Dialysis	7	\$1,632.50
				\$1,632.50
MOTTF6824	315694	UMH Pediatric Dialysis	1	\$23.40
				\$23.40
MOTTF7520	316690	UMH NSG MOTT 7M	36	\$550.16
				\$550.16
MOTTF7528	316690	UMH NSG MOTT 7M	6	\$20.33
				\$20.33
MOTTF7534	316540	UMH WH4 - Womens Birth Center	1	\$5.71
				\$5.71
MOTTF7679	316690	UMH NSG MOTT 7M	10	\$65.09
				\$65.09
MOTTF7681	316690	UMH NSG MOTT 7M	12	\$156.23
				\$156.23
MOTTF7689	316690	UMH NSG MOTT 7M	7	\$84.95
				\$84.95
MOTTF7830	315833	UMH Cardiac Surg Clinic Prof	14	\$552.63
				\$552.63

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
MOTTF8419				
	314750	UMH Child & Family Life	9	\$129.64
	318568	UMH C & FL - Gifts	5	\$148.18
				\$277.83
MOTTMOTTO				
	314770	UMH Mott Resp Therapy	2	\$85.47
	316625	UMH Post Anes Care Unit - Mott	1	\$5.52
	315410	UMH-T Anesthesia Mott	1	\$26.99
	204730		1	\$111.18
	314640	UMH Oper Rooms - Univ Hospital	3	\$101.64
	314730	UMH Oper Room - Mott	507	\$46,182.78
				\$46,513.58
MSRB2B580				
	U009791		1	\$26.97
				\$26.97
MSRB2B580A				
	C274601		1	\$28.81
				\$28.81
MSRB3ANIMA				
	244000		1	\$214.76
				\$214.76
TAUBMAN130				
	314450	UMH Ambulatory Care Pharmacy	15	\$697.78
				\$697.78
TAUBMAN130				
	314430	UMH Inpatient Pharmacy Svcs	4	\$527.40
	314450	UMH Ambulatory Care Pharmacy	41	\$2,426.98
	315540	UMH Emergency Department	1	\$172.86
				\$3,127.24
TAUBMAN132				
	315195	UMH Dermatology Laser Unit Fac	16	\$681.00
				\$681.00
TAUBMAN132				
	U012457		1	\$18.05
				\$18.05
TAUBMAN132				
	315398	UMH Neurology Prof	5	\$73.24
				\$73.24
TAUBMAN133				
	315700	UMH Pediatric Clinic - Tech	6	\$362.02
				\$362.02
TAUBMAN133				
	315850	UMH Urology Clinic - Tech	7	\$314.50
				\$314.50
TAUBMAN134				
	315510	UMH Ob/Gyn Clinic Svc - Tech	1	\$38.20
				\$38.20

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
TAUBMAN134				
	314640	UMH Oper Rooms - Univ Hospital	1	\$27.25
	314747	UMH Perinatal Assessment Ctr	1	\$4,939.20
	315510	UMH Ob/Gyn Clinic Svc - Tech	141	\$100,452.10
	315511	UMH Ob/Gyn OP Service Prof	2	\$24.34
	315570	UMH Infectious Diseases - Fac	1	\$6,585.60
				\$112,028.48
TAUBMAN141				
	315195	UMH Dermatology Laser Unit Fac	4	\$52.30
				\$52.30
TAUBMAN143				
	315850	UMH Urology Clinic - Tech	23	\$4,908.71
				\$4,908.71
TAUBMAN153				
	315700	UMH Pediatric Clinic - Tech	1	\$65.98
				\$65.98
TAUBMAN160				
	315390	UMH CPR	2	\$29.67
	315660	UMH Otolaryngology - Tech	6	\$25.69
				\$55.36
TAUBMAN161				
	U005286		3	\$43.27
				\$43.27
TAUBMAN170				
	315660	UMH Otolaryngology - Tech	10	\$131.78
				\$131.78
TAUBMAN170				
	315660	UMH Otolaryngology - Tech	97	\$3,661.31
	205660		1	\$3.08
				\$3,664.39
TAUBMAN171				
	315252	UMH Derm Taubman Facility	55	\$1,679.12
				\$1,679.12
TAUBMAN171				
	315252	UMH Derm Taubman Facility	2	\$13.34
				\$13.34
TAUBMAN171				
	315252	UMH Derm Taubman Facility	11	\$321.02
				\$321.02
TAUBMAN172				
	315398	UMH Neurology Prof	2	\$49.62
				\$49.62
TAUBMAN190				
	205660		6	\$70.50
	205664		1	\$13.77
	315660	UMH Otolaryngology - Tech	13	\$172.62
	C275171		6	\$64.51
				\$321.39

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
TAUBMAN191	C275621		3	\$99.72
				\$99.72
TAUBMAN191	315398	UMH Neurology Prof	4	\$22.09
				\$22.09
TAUBMAN191	315398 315298	UMH Neurology Prof UMH Urology Liv Clin - Tech	4 4	\$31.60 \$186.22
				\$217.82
TAUBMAN191	315510	UMH Ob/Gyn Clinic Svc - Tech	1	\$5.01
				\$5.01
TAUBMAN192	315700	UMH Pediatric Clinic - Tech	1	\$3.60
				\$3.60
TAUBMAN192	315700	UMH Pediatric Clinic - Tech	4	\$207.85
				\$207.85
TAUBMAN192	315700	UMH Pediatric Clinic - Tech	75	\$2,408.42
				\$2,408.42
TAUBMAN192	315700 315706	UMH Pediatric Clinic - Tech UMH Pediatric Clinic Prof	19 2	\$801.84 \$110.26
				\$912.10
TAUBMAN192	315700 315706	UMH Pediatric Clinic - Tech UMH Pediatric Clinic Prof	37 4	\$1,673.90 \$50.52
				\$1,724.42
TAUBMAN192	315700 316665	UMH Pediatric Clinic - Tech UMH NSG Mott 6M	3 1	\$189.90 \$650.00
				\$839.90
TAUBMAN194	315510	UMH Ob/Gyn Clinic Svc - Tech	9	\$224.97
				\$224.97
TAUBMAN194	315510	UMH Ob/Gyn Clinic Svc - Tech	2	\$188.98
				\$188.98
TAUBMAN195	315510	UMH Ob/Gyn Clinic Svc - Tech	73	\$1,198.66
				\$1,198.66
TAUBMAN212	315830	UMH Gen Thoracic Surg - Tech	1	\$2.45
				\$2.45

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
TAUBMAN237	317542	UMH Path O/P Phlebotomy	14	\$384.44 \$384.44
TAUBMAN241	315810	UMH Orthopaedic Surg - Tech	11	\$590.02 \$590.02
TAUBMAN241	315810	UMH Orthopaedic Surg - Tech	5	\$366.68 \$366.68
TAUBMAN241	315275	UMH Vsa Clinic - Tech	1	\$62.99 \$62.99
TAUBMAN242	315850	UMH Urology Clinic - Tech	7	\$117.85 \$117.85
TAUBMAN245	315660 316740 316750	UMH Otolaryngology - Tech UMH Holden ICU Nursery UMH Nsg Mott Ped ICU	43 2 1	\$758.97 \$1,300.00 \$650.00 \$2,708.97
TAUBMAN250	315932	UMH Radiology-Op Gen Imaging	6	\$98.19 \$98.19
TAUBMAN252	315850	UMH Urology Clinic - Tech	1	\$38.20 \$38.20
TAUBMAN253	315270	UMH Gen Surg Clinic - Tech	1	\$14.15 \$14.15
TAUBMAN255	315790	UMH Neurosurg - Tech	1	\$31.21 \$31.21
TAUBMAN256	316665 316750 316760	UMH NSG Mott 6M UMH Nsg Mott Ped ICU UMH Ped Cardio/Thor ICU	1 1 1	\$650.00 \$650.00 \$22.70 \$1,322.70
TAUBMAN262	315850	UMH Urology Clinic - Tech	1	\$4.71 \$4.71
TAUBMAN270	315810	UMH Orthopaedic Surg - Tech	16	\$939.64 \$939.64
TAUBMAN271	315830	UMH Gen Thoracic Surg - Tech	5	\$132.32 \$132.32

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
TAUBMAN271	315820	UMH Treatment Room 3 - Tech	55	\$9,133.58 \$9,133.58
TAUBMAN271	315833	UMH Cardiac Surg Clinic Prof	1	\$75.20 \$75.20
TAUBMAN272	315850	UMH Urology Clinic - Tech	57	\$5,167.98 \$5,167.98
TAUBMAN272	315850	UMH Urology Clinic - Tech	10	\$1,235.82 \$1,235.82
TAUBMAN272	315270	UMH Gen Surg Clinic - Tech	92	\$3,823.33 \$3,823.33
TAUBMAN273	315270	UMH Gen Surg Clinic - Tech	1	\$0.37 \$0.37
TAUBMAN275	315790	UMH Neurosurg - Tech	73	\$2,067.95 \$2,067.95
TAUBMAN277	315007	UMH-P Anes Pre-Op	1	\$10.33 \$10.33
TAUBMAN286	315790	UMH Neurosurg - Tech	1	\$4.87 \$4.87
TAUBMAN300	311450	UMH Reg & Ins Verification	2	\$5.10 \$5.10
TAUBMAN311	315148	UMH Gen Med Taubman 3B Pro	5	\$127.91 \$127.91
TAUBMAN320	315179	UMH Pod A Rheumatology Tech	10	\$266.92
	315350	UMH Clinic Operations Tech	4	\$83.51
	315232	UMH Pod D ID Travel - Tech	1	\$13.86
	315199	UMH Pod C Pulmonary Tech	1	\$65.98
	315191	UMH Pod D Infect Diseases Tech	2	\$22.75
	315192	UMH Pod D GI Lumin Tech	1	\$5.01
	315178	UMH Pod C Cardiology Tech	10	\$343.61
	315193	UMH Pod D MEND Tech	39	\$1,436.37
				\$2,238.02
TAUBMAN321	317542	UMH Path O/P Phlebotomy	35	\$1,892.83 \$1,892.83

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
TAUBMAN330				
	315148	UMH Gen Med Taubman 3B Pro	2	\$155.24
	315350	UMH Clinic Operations Tech	1	\$22.63
				\$177.87
TAUBMAN330	205148		1	\$233.80
				\$233.80
TAUBMAN333				
	314581	UMH Int Med Pod D Prof	4	\$68.21
				\$68.21
TAUBMAN341				
	315350	UMH Clinic Operations Tech	2	\$57.91
				\$57.91
TAUBMAN343				
	315196	UMH Txp - IM Neph Clinic Tech	1	\$98.75
				\$98.75
TAUBMAN350				
	315148	UMH Gen Med Taubman 3B Pro	13	\$781.87
				\$781.87
TAUBMAN351				
	315350	UMH Clinic Operations Tech	4	\$787.55
	315148	UMH Gen Med Taubman 3B Pro	2	\$27.17
				\$814.72
TAUBMAN351	315670	UMH TC - Acct Organ Procurement	2	\$9.14
				\$9.14
TAUBMAN352				
	315186	UMH Pod C Allergy Tech	4	\$29.91
				\$29.91
TAUBMAN352				
	315191	UMH Pod D Infect Diseases Tech	1	\$3.28
	315350	UMH Clinic Operations Tech	1	\$7.68
				\$10.96
TAUBMAN353				
	315193	UMH Pod D MEND Tech	3	\$33.04
				\$33.04
TAUBMAN360				
	315148	UMH Gen Med Taubman 3B Pro	12	\$96.72
				\$96.72
TAUBMAN370				
	315148	UMH Gen Med Taubman 3B Pro	22	\$1,056.15
				\$1,056.15
TAUBMAN373				
	315191	UMH Pod D Infect Diseases Tech	4	\$40.08
				\$40.08

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
TAUBMAN386				
	316665	UMH NSG Mott 6M	1	\$42.60
	317160	UMH TC Administration	4	\$142.00
				\$184.60
TAUBMAN386				
	317160	UMH TC Administration	5	\$189.86
				\$189.86
TAUBMAN394				
	315660	UMH Otolaryngology - Tech	1	\$29.57
				\$29.57
TAUBMANB12				
	315330	UMH Ekogram Technical	1	\$48.56
				\$48.56
TAUBMANB13				
	315540	UMH Emergency Department	4	\$1,443.98
				\$1,443.98
TAUBMANB13				
	C274827		3	\$77.01
	302200		14	\$1,010.54
				\$1,087.55
TAUBMANB13				
	302200		1	\$122.87
	C274827		4	\$726.33
				\$849.20
TAUBMANB13				
	274601		5	\$424.11
	C274601		1	\$1.94
				\$426.05
UMH1B216				
	316028	UMH Observation Unit	62	\$2,016.61
				\$2,016.61
UMH1B216D				
	316028	UMH Observation Unit	6	\$60.67
				\$60.67
UMH1B218				
	311040	UMH Admissions & Business Svcs	2	\$103.32
				\$103.32
UMH1B300				
	315413	UMH Epilepsy Laboratory	6	\$140.90
	315407	UMH Electrodiagnostic Lab	1	\$93.03
				\$233.93
UMH1B310				
	316201	UMH Post Anes Care Unit - UH	2	\$0.00
				\$0.00
UMH1B330				
	316201	UMH Post Anes Care Unit - UH	2	\$2,487.75
				\$2,487.75

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH1B402	316140	UMH Trauma Burn ICU	1	\$96.69 \$96.69
UMH1B418	316140	UMH Trauma Burn ICU	1	\$15.96 \$15.96
UMH1B422	316740 316440 316340 316120 316140	UMH Holden ICU Nursery UMH Nursing 5C Surgery UMH Nursing 6A UMH Nursing 6D Ccmu UMH Trauma Burn ICU	2 1 1 9 2039	\$19.20 \$17.76 \$45.00 \$58.88 \$77,713.27 \$77,854.12
UMH1C204	315670	UMH TC - Acct Organ Procurement	1	\$21.99 \$21.99
UMH1C335	315733	UMH Pm&R Rehab Engr	1	\$158.14 \$158.14
UMH1C421	317930	UMH Trauma Burn Center	1	\$112.45 \$112.45
UMH1C435	317910	UMH Homograft Processing	1	\$1.40 \$1.40
UMH1C454	316140	UMH Trauma Burn ICU	4	\$35.87 \$35.87
UMH1D201	314640 315540	UMH Oper Rooms - Univ Hospital UMH Emergency Department	1 7	\$618.52 \$618.52
UMH1D203	315666 315732	UMH Speech Pathology UMH Speech-Lang	2 8	\$17.70 \$185.63 \$203.32
UMH1D220	314300 314745	UMH Orthotics&Prosthetics Ctr UMH O&P Physician	18 7	\$459.99 \$427.72 \$887.71
UMH1D303	315100 316100 316201 316625	UMH-T Anesthesia UH UMH Nursing 7D Ccu UMH Post Anes Care Unit - UH UMH Post Anes Care Unit - Mott	4 1 194 1	\$1,018.08 \$0.00 \$22,006.27 \$17.58 \$23,041.94

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH1D330	316201	UMH Post Anes Care Unit - UH	90	\$12,676.33 \$12,676.33
UMH1D350	314445 315100	UMH OR Pharmacies UMH-T Anesthesia UH	8 2	\$344.21 \$315.80 \$660.01
UMH1D413	314640	UMH Oper Rooms - Univ Hospital	1	\$15.97 \$15.97
UMH1D421	315100	UMH-T Anesthesia UH	64	\$3,497.20 \$3,497.20
UMH1F201	316201	UMH Post Anes Care Unit - UH	1	\$0.00 \$0.00
UMH1F223	315730	UMH Pm&R Phys Therapy-Uh	9	\$263.89 \$263.89
UMH1F226	314467	UMH Electrophysio Technical	1	\$103.32 \$103.32
UMH1F231	205730		1	\$51.22 \$51.22
UMH1F249	315730	UMH Pm&R Phys Therapy-Uh	1	\$13.04 \$13.04
UMH1F300Z	314640	UMH Oper Rooms - Univ Hospital	26	\$8,237.48 \$8,237.48
UMH1F301	316201	UMH Post Anes Care Unit - UH	4	\$346.35 \$346.35
UMH1F310	316011 316201 316440	UMH Nursing-Inpatient Aux. UMH Post Anes Care Unit - UH UMH Nursing 5C Surgery	71 558 2	\$1,007.93 \$32,821.67 \$16.98 \$33,846.58
UMH1F310B	316201	UMH Post Anes Care Unit - UH	2	\$37.14 \$37.14
UMH1F403	315670 314640	UMH TC - Acct Organ Procurement UMH Oper Rooms - Univ Hospital	7 5	\$2,315.35 \$1,927.24 \$4,242.59

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH1F403NS	315670	UMH TC - Acct Organ Procurement	2	\$24.24 \$24.24
UMH1F420	314640	UMH Oper Rooms - Univ Hospital	3	\$216.19 \$216.19
UMH1F423	315942	UMH Radiology-Spec Proced	19	\$37,675.59 \$37,675.59
UMH1F426	315100	UMH-T Anesthesia UH	111	\$3,894.62 \$3,894.62
UMH1G212	314510	UMH Pm&R-Occup Ther-Uh	13	\$349.09 \$349.09
UMH1G212HA	314510	UMH Pm&R-Occup Ther-Uh	4	\$545.72 \$545.72
UMH1G212RA	314510	UMH Pm&R-Occup Ther-Uh	15	\$1,199.90 \$1,199.90
UMH1G221	317140 314510	UMH Pat Transportation UMH Pm&R-Occup Ther-Uh	58 7	\$348.05 \$577.30 \$925.35
UMH1G314	315100 315510	UMH-T Anesthesia UH UMH Ob/Gyn Clinic Svc - Tech	240 4	\$101,537.16 \$189.47 \$101,726.63
UMH1G318	315100	UMH-T Anesthesia UH	5	\$417.05 \$417.05
UMH1G322	314640	UMH Oper Rooms - Univ Hospital	13	\$2,082.44 \$2,082.44
UMH1G401	315100	UMH-T Anesthesia UH	1	\$108.42 \$108.42
UMH1G408	314640 315100	UMH Oper Rooms - Univ Hospital UMH-T Anesthesia UH	2 6	\$109.68 \$327.86 \$437.54
UMH1G413	315100	UMH-T Anesthesia UH	9	\$1,966.25 \$1,966.25

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH1G420				
	314640	UMH Oper Rooms - Univ Hospital	5	\$431.47
	316140	UMH Trauma Burn ICU	1	\$28.09
				\$459.56
UMH1G423				
	315942	UMH Radiology-Spec Proced	1	\$7.34
				\$7.34
UMH1G426				
	314640	UMH Oper Rooms - Univ Hospital	2	\$44.29
	315100	UMH-T Anesthesia UH	67	\$1,832.95
				\$1,877.24
UMH2B228				
	315135	UMH Patient Relations	1	\$0.00
				\$0.00
UMH2B242				
	315375	UMH Diag Vascular - Tech	1	\$8.68
				\$8.68
UMH2B353				
	315520	UMH Ob-Gyn Admin.	1	\$42.17
				\$42.17
UMH2B355				
	315220	UMH Med Proc Unit - Tech	314	\$75,122.06
	315520	UMH Ob-Gyn Admin.	1	\$18.59
	316028	UMH Observation Unit	1	\$29.57
				\$75,170.22
UMH2B385				
	315220	UMH Med Proc Unit - Tech	1	\$1.38
				\$1.38
UMH2B455				
	315220	UMH Med Proc Unit - Tech	1	\$0.00
				\$0.00
UMH2B455R				
	315220	UMH Med Proc Unit - Tech	2	\$23.48
				\$23.48
UMH2C420				
	315220	UMH Med Proc Unit - Tech	226	\$25,558.57
				\$25,558.57
UMH2C453				
	315220	UMH Med Proc Unit - Tech	4	\$119.35
				\$119.35
UMH2C454				
	315220	UMH Med Proc Unit - Tech	1	\$980.00
				\$980.00
UMH2C465				
	315220	UMH Med Proc Unit - Tech	11	\$1,330.33
				\$1,330.33

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH2C469				
	315220	UMH Med Proc Unit - Tech	1	\$224.40
	315860	UMH Acute Hemodial - Tech	2	\$44.70
				\$269.10
UMH2C469CRD				
	315220	UMH Med Proc Unit - Tech	1	\$300.00
				\$300.00
UMH2C469GI				
	315220	UMH Med Proc Unit - Tech	2	\$2,250.00
				\$2,250.00
UMH2F214				
	317510	UMH Path Supply Inventory	6	\$1,542.63
				\$1,542.63
UMH2F221				
	317615	UMH Transfusion/Apheresis	1	\$5.78
				\$5.78
UMH2F224				
	317615	UMH Transfusion/Apheresis	69	\$1,591.42
				\$1,591.42
UMH2F310				
	316201	UMH Post Anes Care Unit - UH	1	\$25.98
				\$25.98
UMH2F331				
	317560	UMH Path Hemo/Coag Unit Uh	20	\$2,317.72
				\$2,317.72
UMH2F341				
	317600	UMH Surg/Necropsy Path	16	\$289.91
				\$289.91
UMH2F360				
	317560	UMH Path Hemo/Coag Unit Uh	6	\$282.37
				\$282.37
UMH2F453				
	317525	UMH Pathology Satellite Supp	15	\$6,836.94
				\$6,836.94
UMH2F461				
	317530	UMH Microbiol Pathology	1	\$0.72
				\$0.72
UMH2F463				
	317520	UMH Chemical Pathology	2	\$72.18
				\$72.18
UMH4145				
	316230	UMH 4B/C Card/Thor/Vas	3	\$82.74
	316245	UMH 5A Ortho/Trauma	6	\$25.05
	316260	UMH Nursing 4D TICU	66	\$5,783.21
				\$5,891.00

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH4202	316350	UMH 4A Neuro-Neurosurg	3	\$29.25 \$29.25
UMH4203	206350		3	\$59.25 \$59.25
UMH4206	316350	UMH 4A Neuro-Neurosurg	1	\$12.06 \$12.06
UMH4217	316230	UMH 4B/C Card/Thor/Vas	35	\$338.73 \$338.73
UMH4224	316230	UMH 4B/C Card/Thor/Vas	3	\$162.68 \$162.68
UMH4229	316230	UMH 4B/C Card/Thor/Vas	3	\$7.65 \$7.65
UMH4233	316230	UMH 4B/C Card/Thor/Vas	109	\$1,473.37 \$1,473.37
UMH4237	316230	UMH 4B/C Card/Thor/Vas	1	\$87.73 \$87.73
UMH4303	316350	UMH 4A Neuro-Neurosurg	8	\$721.95 \$721.95
UMH4404	316350	UMH 4A Neuro-Neurosurg	1	\$2.60 \$2.60
UMH4405	315540 316350	UMH Emergency Department UMH 4A Neuro-Neurosurg	1 1	\$59.00 \$7.98 \$66.98
UMH4407	316350	UMH 4A Neuro-Neurosurg	1	\$223.02 \$223.02
UMH4501	316260	UMH Nursing 4D TICU	2	\$207.56 \$207.56
UMH4504	314430	UMH Inpatient Pharmacy Svcs	2	\$121.33 \$121.33
UMH4707	316150	UMH Nursing 4D Neuro ICU	10	\$37.60 \$37.60

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH4708	316150	UMH Nursing 4D Neuro ICU	42	\$1,218.40
				\$1,218.40
UMH4715	316260	UMH Nursing 4D TICU	4	\$601.27
				\$601.27
UMH4A	206350		1	\$38.20
	316011	UMH Nursing-Inpatient Aux.	2	\$144.38
	316150	UMH Nursing 4D Neuro ICU	3	\$141.15
	316230	UMH 4B/C Card/Thor/Vas	4	\$24.80
	316245	UMH 5A Ortho/Trauma	3	\$64.38
	316350	UMH 4A Neuro-Neurosurg	846	\$24,968.60
	316450	UMH Hem/Onc 8A Bmt	1	\$54.94
				\$25,436.45
UMH4B	316340	UMH Nursing 6A	1	\$7.98
	316350	UMH 4A Neuro-Neurosurg	5	\$107.35
	316320	UMH Nursing - SWAT	1	\$35.52
	316260	UMH Nursing 4D TICU	6	\$51.61
	316220	UMH Nursing 6B Medicine	1	\$0.65
	316150	UMH Nursing 4D Neuro ICU	2	\$54.07
	315230	UMH GSA Chelsea Clinic Prof	1	\$2.60
	316460	UMH 7 B/C Cardiology	3	\$35.00
	316230	UMH 4B/C Card/Thor/Vas	1316	\$24,657.82
				\$24,952.60
UMH4C	316350	UMH 4A Neuro-Neurosurg	1	\$26.79
	316460	UMH 7 B/C Cardiology	3	\$64.21
	316380	UMH 8C General Surgery/Med	6	\$618.67
	316340	UMH Nursing 6A	3	\$7.27
	316260	UMH Nursing 4D TICU	11	\$253.93
	316230	UMH 4B/C Card/Thor/Vas	1120	\$23,413.80
	316440	UMH Nursing 5C Surgery	2	\$35.52
				\$24,420.20
UMH4D	316260	UMH Nursing 4D TICU	2	\$101.54
				\$101.54

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH4DN				
	316200	UMH Nursing 5D SICU	4	\$200.53
	316750	UMH Nsg Mott Ped ICU	1	\$22.45
	316460	UMH 7 B/C Cardiology	2	\$416.02
	316360	UMH Nursing 8B Gyn/Onc	5	\$326.99
	316760	UMH Ped Cardio/Thor ICU	3	\$177.45
	316350	UMH 4A Neuro-Neurosurg	1	\$10.00
	316220	UMH Nursing 6B Medicine	1	\$0.18
	316150	UMH Nursing 4D Neuro ICU	7	\$633.88
	316120	UMH Nursing 6D Ccmu	2	\$75.30
	316100	UMH Nursing 7D Ccu	1	\$14.44
	316230	UMH 4B/C Card/Thor/Vas	1	\$22.51
	316260	UMH Nursing 4D TICU	1689	\$155,376.65
				\$157,276.40
UMH4DS				
	316100	UMH Nursing 7D Ccu	1	\$10.73
	316150	UMH Nursing 4D Neuro ICU	743	\$30,306.59
	316200	UMH Nursing 5D SICU	3	\$135.56
	316260	UMH Nursing 4D TICU	11	\$324.17
	316350	UMH 4A Neuro-Neurosurg	4	\$32.45
				\$30,809.52
UMH5202				
	316245	UMH 5A Ortho/Trauma	1	\$328.20
				\$328.20
UMH5220				
	316330	UMH 5B Internal Medicine	63	\$796.46
				\$796.46
UMH5224				
	316330	UMH 5B Internal Medicine	1	\$2.04
				\$2.04
UMH5233				
	316440	UMH Nursing 5C Surgery	2	\$45.51
				\$45.51
UMH5237				
	316440	UMH Nursing 5C Surgery	1	\$49.18
				\$49.18
UMH5405				
	314430	UMH Inpatient Pharmacy Svcs	4	\$409.23
				\$409.23
UMH5440				
	316441	UMH Tacu - Nursing	6	\$215.06
				\$215.06
UMH5504				
	314430	UMH Inpatient Pharmacy Svcs	179	\$12,379.91
	314450	UMH Ambulatory Care Pharmacy	8	\$500.83
				\$12,880.74
UMH5800Z				
	316200	UMH Nursing 5D SICU	7	\$370.33
				\$370.33

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH5A				
316200	UMH Nursing 5D SICU	2	\$6.01	
316245	UMH 5A Ortho/Trauma	1244	\$27,032.74	
316330	UMH 5B Internal Medicine	13	\$92.41	
316350	UMH 4A Neuro-Neurosurg	15	\$662.08	
316450	UMH Hem/Onc 8A Bmt	4	\$63.13	
				\$27,856.37
UMH5B				
316300	UMH Crc-Patient Care/Peds	4	\$65.48	
316330	UMH 5B Internal Medicine	1231	\$34,795.81	
316370	UMH Nursing 6C Pulmonary	1	\$14.39	
316200	UMH Nursing 5D SICU	1	\$26.58	
316220	UMH Nursing 6B Medicine	34	\$1,148.10	
316440	UMH Nursing 5C Surgery	8	\$299.98	
316245	UMH 5A Ortho/Trauma	1	\$8.64	
				\$36,358.97
UMH5C				
316200	UMH Nursing 5D SICU	1	\$51.11	
316230	UMH 4B/C Card/Thor/Vas	3	\$9.85	
316440	UMH Nursing 5C Surgery	2416	\$40,219.32	
316460	UMH 7 B/C Cardiology	3	\$19.18	
				\$40,299.46
UMH5D				
316200	UMH Nursing 5D SICU	150	\$8,016.54	
316220	UMH Nursing 6B Medicine	1	\$142.40	
316330	UMH 5B Internal Medicine	1	\$3.80	
317220	UMH Unit Mgmt Mott-5	5	\$112.84	
				\$8,275.58
UMH5DN				
316120	UMH Nursing 6D Ccmu	1	\$30.98	
316440	UMH Nursing 5C Surgery	2	\$45.91	
316260	UMH Nursing 4D TICU	1	\$11.52	
316200	UMH Nursing 5D SICU	1871	\$85,487.12	
316100	UMH Nursing 7D Ccu	2	\$46.73	
316220	UMH Nursing 6B Medicine	10	\$203.83	
				\$85,826.08
UMH5DS				
315200	UMH Dermatology-Tech	1	\$5.58	
316120	UMH Nursing 6D Ccmu	2	\$61.49	
316150	UMH Nursing 4D Neuro ICU	4	\$244.66	
316200	UMH Nursing 5D SICU	1851	\$82,096.41	
316220	UMH Nursing 6B Medicine	8	\$396.08	
316260	UMH Nursing 4D TICU	1	\$219.03	
316330	UMH 5B Internal Medicine	1	\$96.69	
316440	UMH Nursing 5C Surgery	1	\$32.04	
317220	UMH Unit Mgmt Mott-5	3	\$121.33	
				\$83,273.32
UMH6202				
316340	UMH Nursing 6A	53	\$495.40	
				\$495.40

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH6211	316340	UMH Nursing 6A	7	\$22.79 \$22.79
UMH6220	316220	UMH Nursing 6B Medicine	37	\$148.10 \$148.10
UMH6504	314420 314430 314450	UMH Pharmacy Administration UMH Inpatient Pharmacy Svcs UMH Ambulatory Care Pharmacy	1 93 4	\$51.25 \$8,706.29 \$531.15 \$9,288.68
UMH6711	316120	UMH Nursing 6D Ccmu	1	\$73.10 \$73.10
UMH6811	316120	UMH Nursing 6D Ccmu	2	\$1.98 \$1.98
UMH6831	316460	UMH 7 B/C Cardiology	1	\$12.00 \$12.00
UMH6A	316360 316370 316350 316340 316220 316200 316140 316330	UMH Nursing 8B Gyn/Onc UMH Nursing 6C Pulmonary UMH 4A Neuro-Neurosurg UMH Nursing 6A UMH Nursing 6B Medicine UMH Nursing 5D SICU UMH Trauma Burn ICU UMH 5B Internal Medicine	12 3 1 1273 7 1 5 1	\$199.79 \$340.83 \$18.00 \$38,902.07 \$132.85 \$3.50 \$34.46 \$28.81 \$39,660.32
UMH6B	316220 316370 316340 315220 316260 316200 316120 316100 316330	UMH Nursing 6B Medicine UMH Nursing 6C Pulmonary UMH Nursing 6A UMH Med Proc Unit - Tech UMH Nursing 4D TICU UMH Nursing 5D SICU UMH Nursing 6D Ccmu UMH Nursing 7D Ccu UMH 5B Internal Medicine	1432 6 4 1 9 7 3 1 23	\$31,024.24 \$260.27 \$232.43 \$0.90 \$77.54 \$67.25 \$28.42 \$5.24 \$330.02 \$32,026.30

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH6C				
316370	UMH Nursing 6C Pulmonary	1770	\$45,948.14	
316760	UMH Ped Cardio/Thor ICU	1	\$0.96	
316460	UMH 7 B/C Cardiology	1	\$27.62	
316440	UMH Nursing 5C Surgery	7	\$478.41	
316380	UMH 8C General Surgery/Med	1	\$13.00	
316340	UMH Nursing 6A	8	\$341.98	
316230	UMH 4B/C Card/Thor/Vas	5	\$93.79	
316220	UMH Nursing 6B Medicine	1	\$2.71	
316120	UMH Nursing 6D Ccmu	11	\$160.23	
317220	UMH Unit Mgmt Mott-5	1	\$0.00	
316360	UMH Nursing 8B Gyn/Onc	2	\$121.84	
				\$47,188.67
UMH6D				
316120	UMH Nursing 6D Ccmu	123	\$4,591.75	
316460	UMH 7 B/C Cardiology	1	\$14.49	
				\$4,606.25
UMH6DN				
314450	UMH Ambulatory Care Pharmacy	1	\$17.29	
316380	UMH 8C General Surgery/Med	1	\$12.00	
316260	UMH Nursing 4D TICU	4	\$132.79	
316201	UMH Post Anes Care Unit - UH	1	\$4.43	
316200	UMH Nursing 5D SICU	14	\$684.70	
316120	UMH Nursing 6D Ccmu	775	\$29,903.54	
316140	UMH Trauma Burn ICU	1	\$23.71	
				\$30,778.46
UMH6DS				
315380	UMH Cardiac Cath Lab Tech	1	\$210.00	
316665	UMH NSG Mott 6M	2	\$11.90	
316200	UMH Nursing 5D SICU	5	\$426.75	
316120	UMH Nursing 6D Ccmu	767	\$36,040.87	
316150	UMH Nursing 4D Neuro ICU	2	\$161.11	
				\$36,850.63
UMH7102				
316011	UMH Nursing-Inpatient Aux.	1	\$6.60	
				\$6.60
UMH7209				
316011	UMH Nursing-Inpatient Aux.	7	\$76.28	
316300	UMH Crc-Patient Care/Peds	1	\$30.49	
				\$106.77
UMH7225				
316460	UMH 7 B/C Cardiology	1	\$195.12	
				\$195.12
UMH7234				
316460	UMH 7 B/C Cardiology	83	\$760.61	
				\$760.61
UMH7239				
316460	UMH 7 B/C Cardiology	1	\$145.59	
				\$145.59

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH7244	316460	UMH 7 B/C Cardiology	8	\$24.35 \$24.35
UMH7301	316300	UMH Crc-Patient Care/Peds	2	\$2.11 \$2.11
UMH7303	316011	UMH Nursing-Inpatient Aux.	26	\$345.30 \$345.30
UMH7310	316011 316201	UMH Nursing-Inpatient Aux. UMH Post Anes Care Unit - UH	14 1	\$158.22 \$7.70 \$165.92
UMH7416	F004504 316300	UMH Crc-Patient Care/Peds	4 2	\$205.87 \$145.93 \$351.81
UMH7437	316460	UMH 7 B/C Cardiology	1	\$1.64 \$1.64
UMH7604	315860	UMH Acute Hemodial - Tech	2	\$618.40 \$618.40
UMH7604NS	315860	UMH Acute Hemodial - Tech	1	\$125.00 \$125.00
UMH7606	315860	UMH Acute Hemodial - Tech	4	\$124.04 \$124.04
UMH7614	316100	UMH Nursing 7D Ccu	5	\$10.92 \$10.92
UMH7706	315860 315867	UMH Acute Hemodial - Tech UMH NSD Unit	61 28	\$9,311.49 \$2,728.29 \$12,039.78
UMH7706NS	315860	UMH Acute Hemodial - Tech	2	\$422.01 \$422.01
UMH7719	316100	UMH Nursing 7D Ccu	18	\$331.18 \$331.18
UMH7802	315872	UMH Interventional Neph - Tech	33	\$4,119.53 \$4,119.53

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH7815	315860	UMH Acute Hemodial - Tech	1	\$4.08 \$4.08
UMH7823	315860	UMH Acute Hemodial - Tech	1	\$44.16 \$44.16
UMH7831	316100	UMH Nursing 7D Ccu	2	\$47.10 \$47.10
UMH7A	316300 316460 316100 316011 316245	UMH Crc-Patient Care/Peds UMH 7 B/C Cardiology UMH Nursing 7D Ccu UMH Nursing-Inpatient Aux. UMH 5A Ortho/Trauma	668 2 18 97 1	\$16,291.83 \$335.24 \$179.63 \$1,336.40 \$1.64 \$18,144.74
UMH7B	316370 316750 316460 314640 316440 316360 316340 316100 315540 316450	UMH Nursing 6C Pulmonary UMH Nsg Mott Ped ICU UMH 7 B/C Cardiology UMH Oper Rooms - Univ Hospital UMH Nursing 5C Surgery UMH Nursing 8B Gyn/Onc UMH Nursing 6A UMH Nursing 7D Ccu UMH Emergency Department UMH Hem/Onc 8A Bmt	2 2 1285 1 1 2 2 1 1 1	\$34.31 \$14.50 \$30,893.08 \$7.43 \$26.88 \$25.85 \$3.08 \$0.82 \$7.49 \$19.44 \$31,032.88
UMH7C	316360 314430 316460 316760 316440 316370 316340 316230 314640 316350 316100	UMH Nursing 8B Gyn/Onc UMH Inpatient Pharmacy Svcs UMH 7 B/C Cardiology UMH Ped Cardio/Thor ICU UMH Nursing 5C Surgery UMH Nursing 6C Pulmonary UMH Nursing 6A UMH 4B/C Card/Thor/Vas UMH Oper Rooms - Univ Hospital UMH 4A Neuro-Neurosurg UMH Nursing 7D Ccu	2 1 1226 1 4 7 1 2 2 1 2	\$6.10 \$18.00 \$32,557.93 \$7.80 \$65.76 \$99.13 \$7.61 \$18.91 \$2.68 \$12.87 \$257.03 \$33,053.82
UMH7D	315872 316100	UMH Interventional Neph - Tech UMH Nursing 7D Ccu	2 1	\$87.61 \$51.63 \$139.24

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH7DN				
	315860	UMH Acute Hemodial - Tech	11	\$1,936.87
	316460	UMH 7 B/C Cardiology	3	\$46.56
	316370	UMH Nursing 6C Pulmonary	3	\$116.32
	316300	UMH Crc-Patient Care/Peds	6	\$179.11
	316100	UMH Nursing 7D Ccu	1156	\$54,065.83
	316200	UMH Nursing 5D SICU	3	\$239.10
				\$56,583.79
UMH7DS				
	316100	UMH Nursing 7D Ccu	7	\$407.66
	316760	UMH Ped Cardio/Thor ICU	1	\$7.12
	316120	UMH Nursing 6D Ccmu	3	\$373.74
	315380	UMH Cardiac Cath Lab Tech	11	\$1,562.70
	315872	UMH Interventional Neph - Tech	5	\$319.50
	315867	UMH NSD Unit	74	\$7,678.33
	315860	UMH Acute Hemodial - Tech	392	\$47,955.35
	315861	UMH Chronic Hemodial - Tech	6	\$111.43
				\$58,415.83
UMH8102				
	316025	UMH 8A Infusion	9	\$219.14
				\$219.14
UMH8213				
	316450	UMH Hem/Onc 8A Bmt	1	\$35.63
				\$35.63
UMH8220				
	316360	UMH Nursing 8B Gyn/Onc	1	\$4.49
				\$4.49
UMH8233				
	316360	UMH Nursing 8B Gyn/Onc	72	\$515.78
				\$515.78
UMH8242				
	316360	UMH Nursing 8B Gyn/Onc	1	\$4.44
				\$4.44
UMH8302				
	316450	UMH Hem/Onc 8A Bmt	2	\$187.24
				\$187.24
UMH8504				
	314450	UMH Ambulatory Care Pharmacy	4	\$258.97
	314430	UMH Inpatient Pharmacy Svcs	13	\$804.24
				\$1,063.22
UMH8505				
	314430	UMH Inpatient Pharmacy Svcs	49	\$3,920.85
				\$3,920.85
UMH8506				
	314430	UMH Inpatient Pharmacy Svcs	1	\$86.09
				\$86.09
UMH8613				
	315412	UMH Sleep Laboratory	2	\$42.08
				\$42.08

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH8702	315412	UMH Sleep Laboratory	35	\$808.09 \$808.09
UMH8716	315412	UMH Sleep Laboratory	1	\$14.39 \$14.39
UMH8726	318106	UMH Psych Nursing Mental Hlth	2	\$20.89 \$20.89
UMH8822	315412	UMH Sleep Laboratory	3	\$36.02 \$36.02
UMH8842	315412	UMH Sleep Laboratory	23	\$292.14 \$292.14
UMH8A	316025 316450 316360 316340 316150 316245	UMH 8A Infusion UMH Hem/Onc 8A Bmt UMH Nursing 8B Gyn/Onc UMH Nursing 6A UMH Nursing 4D Neuro ICU UMH 5A Ortho/Trauma	1 1079 2 1 1 4	\$28.81 \$26,516.32 \$10.28 \$229.22 \$97.47 \$19.73 \$26,901.83
UMH8B	316380 316220 316450 316460 316360 316230 316330	UMH 8C General Surgery/Med UMH Nursing 6B Medicine UMH Hem/Onc 8A Bmt UMH 7 B/C Cardiology UMH Nursing 8B Gyn/Onc UMH 4B/C Card/Thor/Vas UMH 5B Internal Medicine	14 2 2 4 1151 1 2	\$221.11 \$45.15 \$27.99 \$30.40 \$20,056.38 \$4.65 \$129.37 \$20,515.06
UMH8C	316011 316360 316380	UMH Nursing-Inpatient Aux. UMH Nursing 8B Gyn/Onc UMH 8C General Surgery/Med	1 9 1553	\$0.00 \$176.46 \$23,800.87 \$23,977.33
UMH8D	315412	UMH Sleep Laboratory	6	\$121.63 \$121.63
UMH9150	208196		1	\$3.78 \$3.78
UMH9156	316035	UMH ECT - Nursing Services	1	\$14.80 \$14.80
UMH9334	318134	UMH Nsg 9C	2	\$79.71 \$79.71

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMH9C				
	318134	UMH Nsg 9C	614	\$6,608.74
	316380	UMH 8C General Surgery/Med	1	\$15.55
	316035	UMH ECT - Nursing Services	1	\$57.00
				\$6,681.28
UMHB1A201	395200		3	\$58.88
				\$58.88
UMHB1B205				
	315540	UMH Emergency Department	2	\$37.15
	318161	UMH Psych Emergency Svc	10	\$307.78
				\$344.93
UMHB1C202	315540	UMH Emergency Department	2	\$59.52
				\$59.52
UMHB1C214	315540	UMH Emergency Department	58	\$2,332.92
				\$2,332.92
UMHB1C225Z	315540	UMH Emergency Department	14	\$203.55
				\$203.55
UMHB1C233	315540	UMH Emergency Department	2	\$367.37
				\$367.37
UMHB1C255	315540	UMH Emergency Department	1	\$54.98
				\$54.98
UMHB1C264	315540	UMH Emergency Department	346	\$30,987.21
				\$30,987.21
UMHB1C302	315540	UMH Emergency Department	105	\$3,238.93
				\$3,238.93
UMHB1C302L	314430 315540	UMH Inpatient Pharmacy Svcs UMH Emergency Department	1 60	\$16.87 \$3,063.89
				\$3,080.76
UMHB1D101	315939 315932	UMH Radiology-Magn Res UMH Radiology-Op Gen Imaging	2 2	\$1,314.78 \$4,620.00
				\$5,934.78
UMHB1D201	316201 315539 315540	UMH Post Anes Care Unit - UH UMH Survival Flight UMH Emergency Department	2 1 955	\$24.06 \$75.97 \$40,370.68
				\$40,470.70

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMHB1D201N	315540	UMH Emergency Department	1	\$47.13 \$47.13
UMHB1D201S	314640 315540	UMH Oper Rooms - Univ Hospital UMH Emergency Department	1 217	\$35.97 \$11,127.92 \$11,163.89
UMHB1D230	315938	UMH Radiology - Eng. Services	1	\$8.44 \$8.44
UMHB1D236	315940	UMH Radiology/Gu/Gi/lp Gen Ima	2	\$146.87 \$146.87
UMHB1D302	315940	UMH Radiology/Gu/Gi/lp Gen Ima	8	\$820.27 \$820.27
UMHB1D310	316201	UMH Post Anes Care Unit - UH	1	\$10.15 \$10.15
UMHB1D312	315940 315942	UMH Radiology/Gu/Gi/lp Gen Ima UMH Radiology-Spec Proced	29 14	\$1,743.39 \$1,020.98 \$2,764.37
UMHB1D444	315940 316100	UMH Radiology/Gu/Gi/lp Gen Ima UMH Nursing 7D Ccu	23 1	\$1,642.67 \$84.25 \$1,726.92
UMHB1D444IP	315940	UMH Radiology/Gu/Gi/lp Gen Ima	1	\$104.44 \$104.44
UMHB1D453	315942	UMH Radiology-Spec Proced	4	\$34.42 \$34.42
UMHB1D456	315949	UMH Radiology Cross-Sectional	1	\$285.60 \$285.60
UMHB1D457	315949	UMH Radiology Cross-Sectional	16	\$12,914.41 \$12,914.41
UMHB1F201	314470 316201	UMH Echocadio Technical UMH Post Anes Care Unit - UH	4 1	\$88.77 \$10.58 \$99.36
UMHB1F201R	315330	UMH Ekogram Technical	2	\$121.40 \$121.40

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMHB1F215	314470	UMH Echocardio Techical	1	\$22.26
				\$22.26
UMHB1F224P	315380	UMH Cardiac Cath Lab Tech	1	\$21.00
				\$21.00
UMHB1F226	314467	UMH Electrophysio Technical	10	\$610.60
				\$610.60
UMHB1F244Y	314467	UMH Electrophysio Technical	8	\$13,483.81
	314469	UMH CPU - Central	25	\$1,956.86
	315380	UMH Cardiac Cath Lab Tech	185	\$153,310.17
	315830	UMH Gen Thoracic Surg - Tech	5	\$134.97
	315942	UMH Radiology-Spec Proced	2	\$3,600.00
				\$172,485.81
UMHB1F244Y	314467	UMH Electrophysio Technical	13	\$26,021.50
	314469	UMH CPU - Central	4	\$890.00
	315380	UMH Cardiac Cath Lab Tech	132	\$91,798.01
				\$118,709.51
UMHB1F300	315942	UMH Radiology-Spec Proced	5	\$26,942.83
				\$26,942.83
UMHB1F302	315936	UMH Radiology-Central Svc	2	\$5.72
	315937	UMH Recovery Rm-Radiology	245	\$8,197.02
	315940	UMH Radiology/Gu/Gi/Ip Gen Ima	6	\$230.72
				\$8,433.45
UMHB1F302C	315937	UMH Recovery Rm-Radiology	2	\$619.52
				\$619.52
UMHB1F308	315944	UMH Radiology-Comp Tomogr	37	\$201.51
				\$201.51
UMHB1F310	315937	UMH Recovery Rm-Radiology	1	\$339.71
	316201	UMH Post Anes Care Unit - UH	7	\$112.40
				\$452.11
UMHB1F403	315942	UMH Radiology-Spec Proced	2	\$12.51
	315944	UMH Radiology-Comp Tomogr	37	\$7,862.67
				\$7,875.18
UMHB1F404	315944	UMH Radiology-Comp Tomogr	1	\$51.42
				\$51.42

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMHB1F407	315944	UMH Radiology-Comp Tomogr	155	\$36,220.41 \$36,220.41
UMHB1F408	315540 314640 312150	UMH Emergency Department UMH Oper Rooms - Univ Hospital UMH Patient Food Svcs	3 1 1	\$126.92 \$18.36 \$10.83 \$156.11
UMHB1F420	315942	UMH Radiology-Spec Proced	1	\$1,858.50 \$1,858.50
UMHB1F422	315380 316140	UMH Cardiac Cath Lab Tech UMH Trauma Burn ICU	2 6	\$100.16 \$265.15 \$365.31
UMHB1F425	315942	UMH Radiology-Spec Proced	25	\$353.93 \$353.93
UMHB1F427	315942	UMH Radiology-Spec Proced	20	\$5,400.98 \$5,400.98
UMHB1F430	315944	UMH Radiology-Comp Tomogr	2	\$62.55 \$62.55
UMHB1F430Z	315942	UMH Radiology-Spec Proced	4	\$3,130.11 \$3,130.11
UMHB1F432	315942	UMH Radiology-Spec Proced	2	\$292.72 \$292.72
UMHB1G220	315280 314467	UMH Ophthy Livonia ASC UMH Electrophysio Technical	1 10	\$1,050.00 \$53,605.00 \$54,655.00
UMHB1G220B	314467 315380	UMH Electrophysio Technical UMH Cardiac Cath Lab Tech	165 4	\$461,242.08 \$7,185.00 \$468,427.08
UMHB1G313	315970	UMH Nuclear Medicine	1	
UMHB1G314	315100	UMH-T Anesthesia UH	5	\$6,753.63 \$6,753.63
UMHB1G403	314640	UMH Oper Rooms - Univ Hospital	17	\$921.94 \$921.94

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMHB1G407CS	315949	UMH Radiology Cross-Sectional	1	\$130.68
				\$130.68
UMHB1G435	315970	UMH Nuclear Medicine	1	\$39.32
				\$39.32
UMHB1H202	315970	UMH Nuclear Medicine	1	\$9.36
				\$9.36
UMHB1H232	317140	UMH Pat Transportation	45	\$566.48
				\$566.48
UMHB1H244	314700 314770	UMH Resp/Cardiov Svcs UMH Mott Resp Therapy	97 10	\$11,759.56 \$974.34 \$12,733.90
UMHB1H244C	314700	UMH Resp/Cardiov Svcs	2	\$495.73
				\$495.73
UMHB1H272	317901	UMH Pulmonary Rehab	1	\$41.37
				\$41.37
UMHB1H406	315970	UMH Nuclear Medicine	1	\$28.81
				\$28.81
UMHB1H410	315970	UMH Nuclear Medicine	22	\$2,555.24
				\$2,555.24
UMHB1H420	315972	UMH Nuclear Medicine - PET	4	\$24.70
				\$24.70
UMHB2A108	313405	UMH Biomed	2	
UMHB2B337	315939	UMH Radiology-Magn Res	1	\$65.03
				\$65.03
UMHB2B411	315939	UMH Radiology-Magn Res	5	\$119.06
				\$119.06
UMHB2B435	315939	UMH Radiology-Magn Res	31	\$10,645.38
				\$10,645.38
UMHB2C438	315950	UMH Radiation Oncology	1	\$1.30
				\$1.30

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMHB2C459	315950	UMH Radiation Oncology	1	\$2.25 \$2.25
UMHB2C490	315950	UMH Radiation Oncology	1	\$106.92 \$106.92
UMHB2C491	315950	UMH Radiation Oncology	36	\$418.18 \$418.18
UMHB2D400	314465 204430 314430 314450	UMH Investigative Drug Service UMH Inpatient Pharmacy Svcs UMH Ambulatory Care Pharmacy	40 1 75 2	\$3,653.68 \$17.93 \$3,563.74 \$153.05 \$7,388.40
UMHB2D408	316150	UMH Nursing 4D Neuro ICU	1	\$6.56 \$6.56
UMHB2F205	312120	UMH Food Procurement	1	\$18.36 \$18.36
UMHB2F237	312100	UMH Food Production	1	\$58.18 \$58.18
UMHB2F301	204850 314850 314860 316750	UMH Mat'l Svcs-Administration UMH Mat'l Svcs-Central Sterile UMH Nsg Mott Ped ICU	1 61 48 1	\$4.44 \$299.53 \$8,233.78 \$12.49 \$8,550.24
UMHB2F310	314860 314950	UMH Mat'l Svcs-Central Sterile UMH Mat'l Svcs - Patient Equip	24 1	\$11,766.81 \$7.47 \$11,774.28
UMHB2F310N	314860	UMH Mat'l Svcs-Central Sterile	18	\$12,793.08 \$12,793.08
UMHB2F311	314950 315390	UMH Mat'l Svcs - Patient Equip UMH CPR	109 37	\$67,017.92 \$449.67 \$67,467.59
UMHB2F311C	314950	UMH Mat'l Svcs - Patient Equip	1	\$1,731.84 \$1,731.84
UMHB2F311N	314950	UMH Mat'l Svcs - Patient Equip	1	\$650.00 \$650.00

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMHB2F319				
	316380	UMH 8C General Surgery/Med	1	\$10.74
	316200	UMH Nursing 5D SICU	5	\$358.34
	316245	UMH 5A Ortho/Trauma	1	\$10.74
	316260	UMH Nursing 4D TICU	1	\$19.36
	316760	UMH Ped Cardio/Thor ICU	1	\$121.44
	316330	UMH 5B Internal Medicine	2	\$33.99
	316340	UMH Nursing 6A	1	\$10.74
	316350	UMH 4A Neuro-Neurosurg	69	\$1,945.32
	316360	UMH Nursing 8B Gyn/Onc	2	\$21.48
	316370	UMH Nursing 6C Pulmonary	1	\$10.74
	316440	UMH Nursing 5C Surgery	46	\$1,026.79
	316460	UMH 7 B/C Cardiology	2	\$21.48
	316665	UMH NSG Mott 6M	1	\$10.74
	317938	UMH East Ann Arbor Oper Room	1	\$71.87
	316690	UMH NSG MOTT 7M	1	\$53.70
	315220	UMH Med Proc Unit - Tech	90	\$742.26
	316750	UMH Nsg Mott Ped ICU	6	\$1,864.29
	316150	UMH Nursing 4D Neuro ICU	1	\$12.32
	317525	UMH Pathology Satellite Supp	1	\$103.04
	316740	UMH Holden ICU Nursery	1	\$89.88
	315490	UMH Ped Cardiology - Tech	3	\$109.16
	315236	UMH Geriatrics Center	133	\$857.11
	316140	UMH Trauma Burn ICU	4	\$500.36
	312332	UMH Team 3 Cancer Ctr	1	\$10.74
	314470	UMH Echocardio Technical	2	\$147.84
	314730	UMH Oper Room - Mott	1	\$10.74
	315060	UMH East Aahc Ob/Gyn - Prof	5	\$262.26
	315227	UMH Photopersis Center	72	\$493.52
	315412	UMH Sleep Laboratory	1	\$21.48
	315510	UMH Ob/Gyn Clinic Svc - Tech	1	\$10.74
	315539	UMH Survival Flight	1	\$320.08
	315540	UMH Emergency Department	3	\$7,370.74
	315700	UMH Pediatric Clinic - Tech	1	\$900.00
	315805	UMH Team 5 Cancer Center	1	\$10.74
	315939	UMH Radiology-Magn Res	13	\$5,777.93
	316028	UMH Observation Unit	1	\$10.74
	316041	UMH B2 Procedure Rm Cancer Ctr	1	\$85.05
	316100	UMH Nursing 7D Ccu	2	\$141.86
	316120	UMH Nursing 6D Ccmu	3	\$63.40
	315390	UMH CPR	9	\$3,049.82
				\$26,693.57
UMHB2F400				
	314430	UMH Inpatient Pharmacy Svcs	1	\$200.72
				\$200.72

Billing Summary for MSR Orders between 11/1/05 and 10/30/06

Ship to customer	Dist Type	Seibel Hospital Description	# of	Cost
UMHB2F403				
314640	UMH Oper Rooms - Univ Hospital	1	\$17.37	
316140	UMH Trauma Burn ICU	37	\$116.21	
317938	UMH East Ann Arbor Oper Room	156	\$10,159.25	
317937	UMH East Ann Arbor MPC	8	\$1,582.36	
315100	UMH-T Anesthesia UH	1	\$34.59	
314855	UMH Medical Supply Inventory	2	\$169.85	
315064	UMH Family Med at Dominos Farm	11	\$893.91	
315540	UMH Emergency Department	1	\$85.05	
				\$13,058.58
UMHB2F405				
315944	UMH Radiology-Comp Tomogr	4	\$148.00	
317937	UMH East Ann Arbor MPC	69	\$8,327.20	
317938	UMH East Ann Arbor Oper Room	16	\$3,859.05	
				\$12,334.25
UMHB2F406				
315390	UMH CPR	17	\$1,141.49	
315833	UMH Cardiac Surg Clinic Prof	1	\$7.71	
314860	UMH Mat'l Svcs-Central Sterile	92	\$24,531.21	
315860	UMH Acute Hemodial - Tech	1	\$585.04	
				\$26,265.45
UMHB2F406A				
315390	UMH CPR	15	\$472.65	
				\$472.65
UMHB2F406C				
314860	UMH Mat'l Svcs-Central Sterile	2	\$113.58	
				\$113.58
UMHB2F406P				
314860	UMH Mat'l Svcs-Central Sterile	26	\$1,800.34	
				\$1,800.34
UMHB2G301				
313432	UMH Environment Svcs-Commodity	1	\$25.04	
				\$25.04
UMHB2G302				
313432	UMH Environment Svcs-Commodity	4	\$162.51	
				\$162.51
UMHB2G309				
314860	UMH Mat'l Svcs-Central Sterile	3	\$222.36	
				\$222.36
UMHD7802				
315872	UMH Interventional Neph - Tech	28	\$10,539.90	
314640	UMH Oper Rooms - Univ Hospital	1	\$495.60	
				\$11,035.50

Appendix F. PAR Level Equation Analysis

$$\text{Item_PAR_Level} = \frac{\text{Average}}{\text{Divisor}} \times 1.4$$

Equation 1. Current PAR Level Calculation Equation

where *Average* is the average monthly demand, *Divisor* is a factor corresponding to the number of times per week that the unit is stocked, and the 1.4 constant creates a safety stock of 40%. The average monthly demand is calculated as the summation of daily quantity received for an item over a year divided by twelve. Daily quantity is defined as the total amount stocked by the stockkeeper and any additional volume brought to the unit via supplemental orders. As noted previously, credits are not currently taken into consideration when calculating demand.

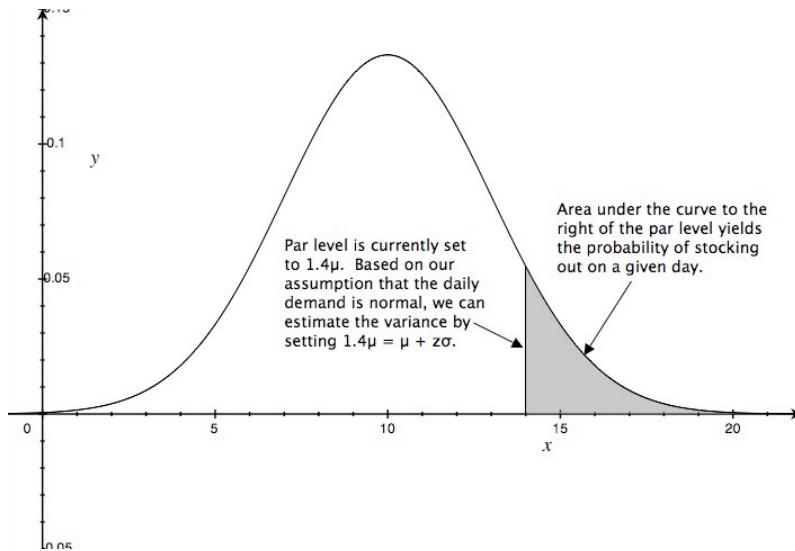


Figure 8. Illustration of Normal Curve Distribution for Demand

$1.4\mu = \mu + z(\alpha_1)\sigma$ Simplifying this formula, we get $0.4\mu = z(\alpha_1)\sigma$	Since daily demand is assumed to be normally distributed, the implied variance can be calculated by setting the current formula equal to the equation for normal demand.
α_1 is derived from the shaded grey area above. Now, solving for σ : $\sigma = 0.4\mu/z(\alpha_1)$	Using the supplemental call data as a proxy for the probability of an item stocking out ($1-\alpha_1$), we can reference the z-value and from that σ can be calculated.
$\text{New PAR level} = \mu + z(\alpha)\sigma$ where $1-\alpha$ equals probability of stocking out on a given day.	Now that μ and σ are known, the new PAR level for each (unit, item) combination may be calculated based upon the desired probability of not stocking out, α .

Appendix G. New PAR Levels for Most Frequently Stocked Out Items

Ship Cust	Item	Item Description	Total # of times item called for in 365 days	% of days stocked out (out of 365days)	z-value	mu estimate	sigma estimate	new par level
UMH4DN	5308	ANTICOAGULANT, CITRATE DEXTROSE 1000ML	118	32.33%				
UMH1F310	41355	BAG, AMENITY FOR PACU	94	25.75%				
UMH5C	2025	WIPES, BARRIER FILM	88	24.11%				
MCHCHOLDEN	2575	GOWN, PROTECTIVE PLASTIC DISPOSABLE	86	23.56%				
UMH5C	2036	REMOVER, ADHESIVE	82	22.47%				
UMH4DN	2865	BAG, DRAINAGE FOR CVVH 7000ML	79	21.64%				
UMH5C	1740	SPONGE, ALL PURPOSE NONSTERILE 3PLY 4IN X 4IN	78	21.37%				
UMH5C	2033	PASTE, STOMAHESIVE	78	21.37%				
UMH5C	1570	CLEANSER, SKIN CARE FOAM 8OZ	73	20.00%				
UMH4DN	2891	KIT, CVVH MANIFOLD	72	19.73%				
UMH4DN	2855	FILTER, HEMODIALYSIS F160 DISPOSABLE	65	17.81%				
MCHCPODA	1740	SPONGE, ALL PURPOSE NONSTERILE 3PLY 4IN X 4IN	64	17.53%				
UMH5C	2034	POWDER, STOMAHESIVE	62	16.99%				
MOTTF3619	2217	PROBE, INFANT OXIMAX DISPOSABLE	62	16.99%				
UMH4B	1748	STOCKING, ANTI-EMBOLISM LARGE REGULAR	61	16.71%				
UMH8C	2025	WIPES, BARRIER FILM	61	16.71%				
UMH4C	1748	STOCKING, ANTI-EMBOLISM LARGE REGULAR	57	15.62%				
UMH5B	2986	SYRINGE, SALINE 10ML IN 10ML	57	15.62%				
UMH5DS	5308	ANTICOAGULANT, CITRATE DEXTROSE 1000ML	57	15.62%				
UMH6A	2023	CANNULA, INNER DISPOSABLE STERILE 6	57	15.62%				
UMH5C	1513	WAFER, DURAHESSIVE FLANGE 1 3/4IN	57	15.62%				
UMH8C	2036	REMOVER, ADHESIVE	56	15.34%				
UMH4B	2503	STOCKING, ANTI-EMBOLISM MEDIUM REGULAR	56	15.34%				
UMH8C	1740	SPONGE, ALL PURPOSE NONSTERILE 3PLY 4IN X 4IN	54	14.79%				
MCHCPODB/C	2090	DEODORIZER, AIR FRESHENER SOLID	52	14.25%				
UMH5C	1313	ADHESIVE, MEDICAL SPRAY 6OZ	51	13.97%				
UMH8B	2811	SUB/WIPES, BABY	49	13.42%				
UMH8C	2033	PASTE, STOMAHESIVE	49	13.42%				
CGCB2301F	2026	KIT, PHOTOPHERESIS PROCEDURE XT125	49	13.42%				
UMH8C	1570	CLEANSER, SKIN CARE FOAM 8OZ	48	13.15%				
MOTT7W	1839	CATHETER, SUCTION GRADUATED 8FR	48	13.15%				
UMH8C	2034	POWDER, STOMAHESIVE	47	12.88%				
UMH4C	1749	STOCKING, ANTI-EMBOLISM LARGE LONG	47	12.88%				
UMH6C	2834	VALVE, TRACH SPEAKING PASSY MUIR	46	12.60%				
UMH8A	2575	GOWN, PROTECTIVE PLASTIC DISPOSABLE	46	12.60%				
UMH5C	1511	POUCH, UROSTOMY 1 3/4IN	45	12.33%				
UMH1B422	5308	ANTICOAGULANT, CITRATE DEXTROSE 1000ML	45	12.33%				