

A NEW LOOK AT MATERIAL MANAGEMENT
SYSTEMS IN HOSPITAL INFORMATION
MANAGEMENT SYSTEMS
FEFO (First Expiry, First Out)



Op. Dr. Demet YALDIZ

Medical Material Management Challenges

- Variety of Material
- Material Use Circulation
- UBB Barcode
- Expiration Date

Objectives

- To reduce the amount of medical leakage to a minimum,
- To Follow the expiration dates of medical material efficiently to reduce the losses attributable to materials that have expired,
- To be able to bill the patients with the right price of the materials being used,
- To be able to reflect the amounts of the material items in the cost analysis reports 100% correctly,
- To enable hospital material stocks to be held at the optimum level,
- To be able to follow the expiration date of materials in the main hospital and alternate storage areas correctly,
- To be in possession of the the very important information of what material was used on which patient and to be able to archive this information,
- To reduce the need for TKKY and other warehouse employees to have to use their own initiative to a minimum in order to get ahead of misuse and finally, most importantly,
- To remove the existing unfortunate loyalty to the employee working in the critical departments of the hospital such as material management and replace them with an efficient, reliable and consistent system

Malzemeleri İlk Girişte Partilere Bölmek

Upon entry, it is possible to assign a single batch number to materials of the same kind or to assign a different batch number for each different expiration date on entry. In fact, it is possible for the medical material to have different UBB codes during the same entry a different batch number can be created for these as well.

2011 / 9224 << No
 7/10/2011 / Muhasebeye Gönder
 7/10/2011 / A 158805 << Talep Sorgu
 7/10/2011 / Muayeneden getir
 2011 / 534 << İhaleden Getir
 2011-43240 nolu ihale ile

Ambar Kodu : 7 TIBBİ SARF AMBARI
 Taahhüt Yetkilisi :
 Firma Kodu-V.No/ Bağış Tc.No : 374318/NİLİM TIBBİ CIHZ. ELEKTR. LTD. Ş
 Adı Soyadı - Ünvanı : FIRMA TEMSİLCİSİ FIRMA TEMSİLCİSİ
 Giriş Tipi / Açıklama : SATINALMA
 Hata Mesajı :

MKYS
 GONDER
 SİL
 Onaylı
 34705

| Malzeme Adı | Açıklama | Hesap Kodu | Birim | Miktar | İnd. % | Birim Fiyat | KDV | Birim Fiyatı KDV'li |
|-----------------------|----------|-----------------------|-------|--------|--------|-------------|-----|---------------------|
| EM TUTUCU (NEONATAL) | | 150-03-03-01-99-18-12 | ADET | 10,000 | | 230000 | 8 | 2,408400 |
| EM TUTUCU (PEDIATRİK) | | 150-03-03-01-99-18-12 | ADET | 10,000 | | 30000 | 8 | 2,408400 |
| EM TUTUCU (NEONATAL) | | 150-03-03-01-99-18-12 | ADET | 10,000 | | 30000 | 8 | 2,408400 |
| EM TUTUCU (NEONATAL) | | 150-03-03-01-99-18-12 | ADET | 10,000 | | 30000 | 8 | 2,408400 |

| | | | | | | | |
|--------------------------------|----------------------|------------|---------------|--|--|----------------|------------|
| CU BAKTERİ FİLTRESİ PEDIYATRİK | Mkys Ölçü | AD | | | | DV'siz Tutar | 178,400000 |
| MALZEME | SARF DEPO MALZEMELER | Barkod | 4026704388035 | | | KDV'li Tutar | 192,672000 |
| | Son Kul. Tarihi | 30/12/2015 | | | | KDV'siz Top | 401,400000 |
| Makbuz ID: 91194 | Üretim Tarihi | | | | | Barkod Bas KDV | 32,112000 |
| | | | | | | KDV'li Toplam | 433,512000 |

MIAD_BARKOD_BAS

MALZEME ETİKETLEME

Kodu : 46844
 Adı : FİLTRE İSİ NEM TUTUCU (PEDIATF
 Barkod No : M72060

Etiket Sayısı

Text A4 Etiket
 Grafik Kutu Text
 Büyük Etiket Mini Etiket

Etiket Bas Vazgeç

Labelling Materials in the Main Storage According to Batch Number

- The batch numbers that are created for materials at the point of entry can be obtained at the press of a button from barcode printers in the number of materials there are.
- While the batch number is on this barcode as strips the material code and name and expiration date are included in alphabetical order.
- The barcode that is used was selected as dual **pergaminli**. Thus it is made possible to remove the barcode on the material and adhere it somewhere else.
- In this way it has been made possible the read the batch numbers with a barcode reader quickly and with the right exit and it is also possible to see the summary information about the material on the product.



FirstExpiryFirstOut

Malzeme Yönetim Sistemine Yeni Bakış Açısı



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Stocking Materials According to the Physical Area Differences of the Main Storage Area

If the materials in the Main Storage Area are going to be stored in different areas in physical terms, the information of what physical storage on what shelf they were on also started being recorded in addition to the the entry and labeling processes.

MALZEME GİRİŞ

Yeni Kırılm Eski Kırılm Taşınır İşlem Fişi MUAYENE GİRDİ BELGESİ STOK GİRİŞ FİŞİ

Malzeme Giriş

Giriş Yılı / Fiş No : 2011 / 9224 << No

Fiş Tarihi : 18/10/2011 Muhasebeye Gönder

Fatura T. / Seri No : 17/10/2011 / A 158805 <<

İrsaliye T. / No : 17/10/2011 /

İhale Yılı / No : 2011 / 534 <<

Açıklama : 2011-43240 nolu ihale ile

Ambar Kodu : 7 TIBBİ SARF AMBARI

Taşınır Yetkilisi : 1374 GÜLSÜM ASLAN

Firma Kodu-V.No/ Bağış T.c.No : 374318 NİLİM TIBBİ CİHZ. ELEKTR. LTD. Ş

Adı Soyadı - Ünvanı : FIRMA TEMSİLCİSİ FIRMA TEMSİLCİSİ

Giriş Tipi / Açıklama : SATINALMA

Hata Mesajı :

Detay Liste Stok Detayı Göz Kartı TIF Probel TIF MKYS

Muhasebe MKYS GONDER SİL Onaylı 34705

| Sıra No | Mal Id | Malzeme Adı | Açıklama | Hesap Kodu | Birim | Miktar | İnd.% | Birim Fiyat | KDV | Birim Fiyatı KDV'li |
|---------|--------|------------------------------------|----------|-----------------------|-------|--------|-------|-------------|-----|---------------------|
| 1 | 146843 | FILTRE ISI NEM TUTUCU (NEONATAL) | | 150-03-03-01-99-18-12 | ADET | 3,0000 | | 2,408,000 | 8 | 2,408,400 |
| 2 | 146844 | FILTRE ISI NEM TUTUCU (PEDIYATRİK) | | 150-03-03-01-99-18-12 | ADET | 3,0000 | | 2,408,000 | 8 | 2,408,400 |
| 3 | 146843 | FILTRE ISI NEM TUTUCU (NEONATAL) | | 150-03-03-01-99-18-12 | ADET | 3,0000 | | 2,408,000 | 8 | 2,408,400 |
| 4 | 146843 | FILTRE ISI NEM TUTUCU (NEONATAL) | | 150-03-03-01-99-18-12 | ADET | 3,0000 | | 2,408,000 | 8 | 2,408,400 |

| | | | | | | | |
|--------------|--|------------------|---------------|----------------|---------|---------------|-------------|
| Hesap Adı | NEM TUTUCU BAKTERİ FİLTRESİ PEDIYATRİK | Mkys Ölçü | AD | Top. Miktar | 180,000 | KDV'siz Tutar | 178,400,000 |
| Ana/Alt Kod | ECCZANE MALZEME SARF DEPO MALZEMELER | Barkod | 4026704388035 | Oluşturan | GASLAN | *KDV'li Tutar | 192,672,000 |
| MkysStkHarid | | Son Kul.Tarihi | 30/12/2015 | | | | 401,400,000 |
| MkysMalKayd | 200023432 | Makbuz ID: 91194 | Üretim Tarihi | | | | 32,110,000 |
| Hata Mesajı | | | | | | | 433,510,000 |
| | | | | Miad No | M72060 | | |
| | | | | Depo | 3 Morg | | |

Depo Mevcut Stokları

SIĞINAK

Mevcut Stoklar Onay Bekleyenler Onaylananlar Gönderilmiş Bekleyenler Toplam Çıkış

| Depo Adı | Mal Id | Malzeme Adı | Miad Barkod No | Son Kul. Tarihi | Depo Tümü | | | |
|----------|--------|----------------------------|----------------|-----------------|--------------|--------------|-------|----|
| | | | | | Toplam Giriş | Toplam Çıkış | Kalan | |
| Morg | 107942 | ABESLANG | M71836 | 15/06/16 | 40000 | 0 | 40000 | >> |
| Siğınak | 107942 | ABESLANG | M70133 | 30/03/16 | 42500 | 18700 | 23800 | >> |
| Siğınak | 150255 | ACT TEST KÜVETİ (ACT TÜPÜ) | M70423 | 30/10/12 | 90 | 0 | 90 | >> |
| Siğınak | 150255 | ACT TEST KÜVETİ (ACT TÜPÜ) | M70422 | 30/08/12 | 451 | 90 | 361 | >> |
| Siğınak | 150400 | ADEZYON BARIYER | M36182 | 30/11/11 | 1 | 0 | 1 | >> |
| Siğınak | 151766 | AĞIZ BAKIM ÇUBUĞU (SWAP) | M70296 | 30/09/13 | 750 | 0 | 750 | >> |
| Siğınak | 148749 | AIRWAY ADAPTÖRÜ | M70539 | 30/10/13 | 200 | 80 | 120 | >> |
| Siğınak | 145153 | AIR-WAY NO:0 (MAVİ) | M34765 | 30/01/14 | 43 | 3 | 40 | >> |
| Siğınak | 145157 | AIR-WAY NO:00 | M35890 | 30/07/14 | 65 | 0 | 65 | >> |
| Siğınak | 145157 | AIR-WAY NO:00 | M35472 | 30/07/14 | 20 | 0 | 20 | >> |
| Siğınak | 110761 | AIR-WAY NO:1 (MOR) | M36168 | 30/07/14 | 2 | 2 | 0 | >> |
| Siğınak | 110762 | AIR-WAY NO:2 (BEYAZ) | M35325 | 30/07/13 | 21 | 3 | 18 | >> |
| Siğınak | 110762 | AIR-WAY NO:2 (BEYAZ) | M58035 | 30/07/13 | 170 | 0 | 170 | >> |
| Siğınak | 110763 | AIR-WAY NO:3 (YEŞİL) | M71871 | 30/06/16 | 300 | 0 | 300 | >> |
| Morg | 110763 | AIR-WAY NO:3 (YEŞİL) | M71871 | 30/06/16 | 300 | 300 | 0 | >> |
| Siğınak | 110763 | AIR-WAY NO:3 (YEŞİL) | M70221 | 30/07/16 | 142 | 104 | 38 | >> |
| Siğınak | 110764 | AIR-WAY NO:4 (SARI) | M70063 | 30/07/16 | 245 | 140 | 105 | >> |

Depo Transfer Oluşturma

Transfer Edilecek Depo

Malzeme

Gıda Morg

Mal Id Miad Barkod No S.K. Tarihi

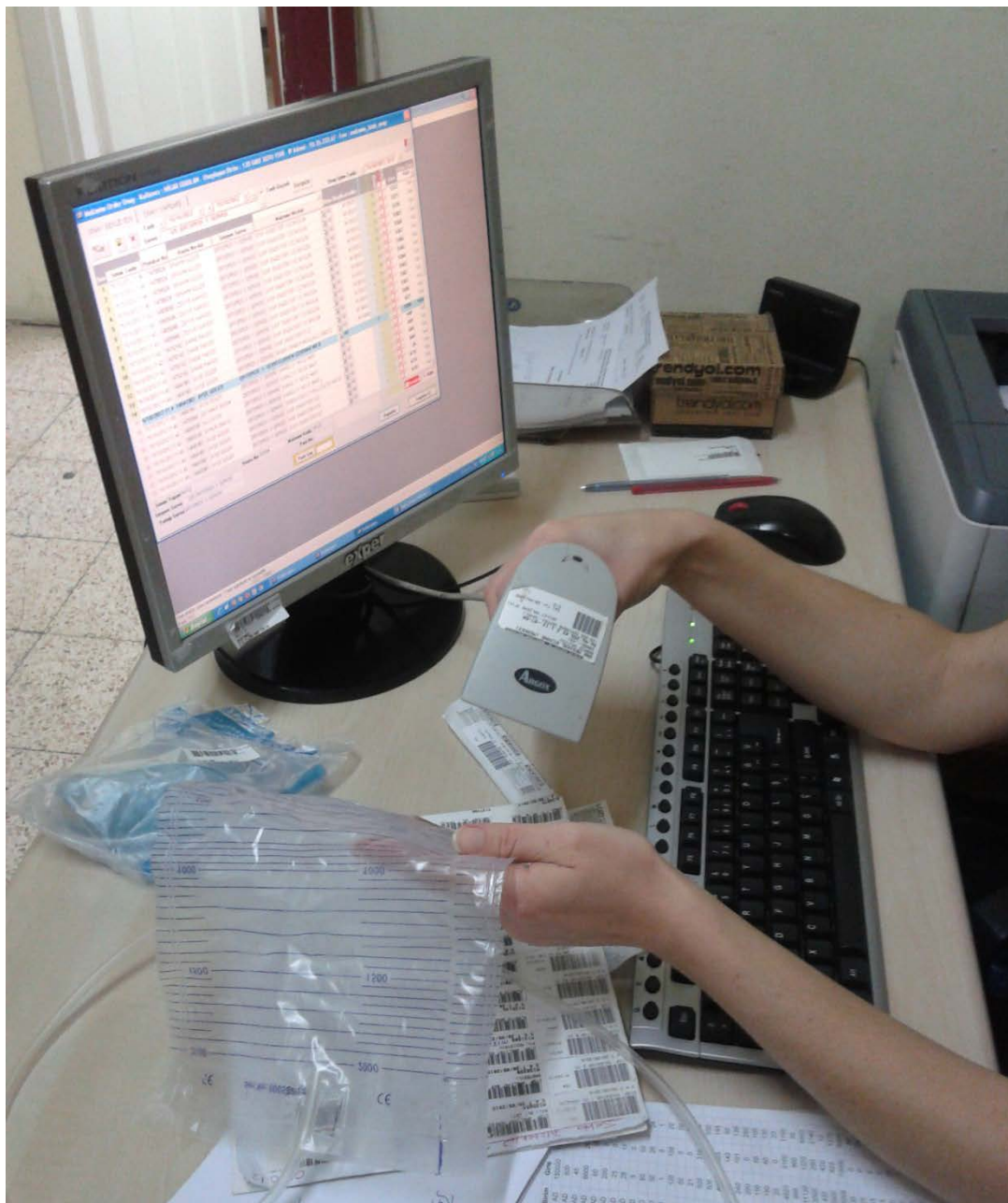
Kaydet

Giriş Detay Id 306346 Ambar No Fatura Tarihi 11/10/2011 Fatura No 10066

Açıklama Tif No 8998

Removing Materials from the Main Storage to Sub-Use Storage Area by Batch

If the materials are being sent from the main storage to the sub storage areas collectively the materials in those units were also stocked according to their batch numbers. Since exits were made by reading the barcode again when materials were exited on a patient or in collective exits the right product with the right UBB number was able to be billed to the patient. It was also possible to follow the critical stock level of products and their expiration dates in the relevant sub-storage areas. If there are products nearing expiration at the exits in the relevant storage areas an warning is given to the user to make sure that product is used from the shelf.



FirstExpiryFirstOut

Malzeme Yönetim Sistemine Yeni Bakış Açısı

İstem Tarihi 18/10/2011

ONAYLANMAYANLAR ONAYLANANLAR

| İstem Yılı - No | İstem Tarihi | İstem Türü | İsteyen Servis |
|-----------------|--------------|------------|-----------------------------------|
| 2011 11623 | 18/10/11 | Normal | 378 KORONER YOĞUN BAKIM |
| 2011 11627 | 18/10/11 | Normal | 187 KAN MERKEZİ |
| 2011 11631 | 18/10/11 | Normal | 1 ACİL SERVİS - (MERKEZ) |
| 2011 11636 | 18/10/11 | Normal | 336 ENFEKSİYON HST.KLİNİK MİKRO.S |
| 2011 11638 | 18/10/11 | Normal | 703 STERİLİZASYON ÜNİTESİ |
| 2011 11640 | 18/10/11 | Normal | 310 ÇOCUK YENİDOĞAN SERVİSİ |
| 2011 11643 | 18/10/11 | Normal | 94 AMELİYATHANE |
| 2011 11647 | 18/10/11 | Normal | 413 KAN ALMA |
| 2011 11649 | 18/10/11 | Normal | 999 DENEME 1 SER |

Malzeme Çıkış Bilgileri

Çıkış Yılı / No: 2011 9228 << No Ambar Adı: 7 TIBBİ SARF AMBARI

Çıkış Tarihi: 18/10/2011 Taş. Yetkilisi: 3183 TAMER GÖRMEZ

Çıkış Tipi: TÜKETİM İst.Bulunan-1: İst.Bulunan-2: İst.Bulunan-3:

İstem Tar./No: 18/10/2011 11649

Servis Kodu: 999 DENEME 1 SER

Açıklama:

| Sıra No | Mal Kodu | Malzeme Adı | Birim | Miktar | Mevcut |
|---------|----------|-----------------------------|-------|--------|--------|
| 1 | 148668 | DISP. NEFROLİTOTRİPS ÖRTÜSÜ | AD | 2.000 | 76.000 |

Açıklama İstem Yapan SEVDA

| Sıra No | İstenen malzemeler | Barkod | İstenen | Verilen | İsteyen Stok | Onay | Seç |
|---------|------------------------------------|--------|---------|---------|--------------|-------------------------------------|-------------------------------------|
| 1 | 148668 DISP. NEFROLİTOTRİPS ÖRTÜSÜ | M71109 | 2 | 2 | 0 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Ana Ambar 76 Ö.Verilen 0 - Açıklama

Kritik Stok 0

Max İstem 0 S.0

Red Muadilleri Tümünü Onayla Talep Analiz

M.Barkod M71109 Fiyat 21.8484 Top. Miktar 2

Açıklama Detaylar

TABLE

| | 2010 First 6 Months | 2011 First 6 Months | 2012 First 6 Months | | | |
|----------------------------------|---------------------|---------------------|---------------------|--------|--------|--------|
| Y Number of Admitted Patients | 19443 | 21385 | 19558 | 10,0% | -8,5% | 0,6% |
| C Number of Daytime Patients | 13059 | 20610 | 20209 | 57,8% | -1,9% | 54,8% |
| F Number of Clinic Patients | 725306 | 874431 | 874612 | 20,6% | 0,0% | 20,6% |
| T Total Items of Material Used | 953992 | 1965707 | 1929354 | 106,1% | -1,8% | 102,2% |
| T Total Material Used | 5.361.630 | 8.446.441 | 9.825.522 | 57,5% | 16,3% | 83,3% |
| T Total Items of Material Billed | 923669 | 1908232 | 1619310 | 106,6% | -15,1% | 75,3% |
| T Total Material Billed | 5.128.664 | 8.305.015 | 8.513.748 | 61,9% | 2,5% | 66,0% |
| / Number of Operations | 42405 | 88450 | 81039 | 108,6% | -8,4% | 91,1% |
| F Bill Amount | 61.164.773,76 | 79.506.972,41 | 74.758.121,50 | 30,0% | -6,0% | 22,2% |
| ε Warehouse exit | 5.494.311 TL | 6.671.133 TL | 8.997.626 TL | 21,4% | 34,9% | 63,8% |
| / Warehouse entry | 10.231.348,43 | 7.732.533,40 | 11.798.230,99 | 21,4% | 52,6% | 63,8% |

