

Kyoto Second Red Cross Hospital Kiyohito Tanaka

#### - Kyoto Second Red Cross Hospital , Kyoto, Japan

- Practical use GS1 code in the hospitalOut line of K2RCH
- Strict Data storage for strict medicine usage and outcome
  - Routine injection and infusion on the ward
  - For Out patient
  - For Intensive care unit (ICU) and emergency center
- Strict data storage for medical instruments and devices and outcome
  - Routine distribution
  - Operation room
  - Endoscopic center (reprocessing of endoscopy)



# Routine folw of injection and infusion

#### Checking prescription

#### **Confirmation of mixed injections**



#### Kyoto Second Red Cross Hospital , Kyoto, Japan

At hospital wards, nurses check the medications if they are correct, and they mix the medications according to the required time, and the usage. When nurses mix the medications, they use handy terminals or bar cord readers to confirm the information on the prescriptions and the ravels of the injections and the infusions.



GS1 code not useful for drip infusion, Because GS1 code is coding the individual materials, But in practical use, mixing is necessary.



Every data that nurses enter into handy terminals is transferred to Electronic Medical Record Computer immediately via wireless network, so nurses, doctors, and co-medicals can see timely information at 'Temperature chart' of EMR.

Mixed

Ordered

Now

Operation



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## **Number of Incident / Accident report**







In the total analysis during 4years from installation of infusion check systems. Total number of operation for injection and infusion was increased year by Year, however warning ratio was decreased.

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#### Practical use GS1 code in the hospital Out line of K2RCH

- Strict Data storage for strict medicine usage and outcome
  - Routine injection and infusion on the ward
  - For OR
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  - For Intensive care unit (ICU) and emergency center
  - Strict data storage for medical instruments and devices and outcome
    - Routine distribution
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Since the orders of injections and drips are not placed before the uses in the OR and emergency cases, the usage data will be reflected to the distribution system only after the actual use.

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Precise history tracking of the medications is also possible by utilizing the bar code attached on the medication cart. The scanned information of the medications and medical devices will be reflected to the distribution system and purchase orders will be placed automatically based on the preset quantity of inventory.

The list of used medicines will be printed out at the pharmaceutical department and the precise quantity will be replenished on the the medicine cart.



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For blood transfusion, confirmation of the blood product, patient's blood type and the usage schedule is possible with this system.

First of all, scanning of the bar code on the prepared blood product is performed. Verification of the order contents and transfusion handover information is possible by loading the data from the server. If the verification fails, an error message will appear on the screen. This feature achieves a safe blood transfusion. KVOTO Second Red Croce Hoenital KVOTO IAPAN

#### 患者様から受け取ったカルテから

<カルテの確認

In the outpatient unit, we are using the real time medicine management system called "LITERA" manufactured by TOSHO.

First of all, a nurse confirms the injection and drip orders for outpatients, then verifies staff's ID and retrieves the patient information by using the ID card of the patient. Once ampoules are picked from the medicine management system, the types of the medicines and quantities will automatically be retrieved and the data will be transferred to the pharmaceutical department.

If a wrong ampoule is picked up, it can be returned to the system by following the directions on the display.



For this reason, we are using two types of real time medicine management systems. One is for setting at bedside and the other is for picking as many medicines as available in the outpatient unit.

Sudden orders also occur in the ER.

Kvoto

Therefore, we utilize the real time medicine management system here as well in order to retrieve the precise usage information of various medicines.

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## Practical use GS1 code in the hospital

Out line of K2RCH

Strict Data storage for strict medicine usage and outcome – Routine injection and infusion on the ward

For OR

For Out patient

For Intensive care unit (ICU) and emergency center

- Strict data storage for medical instruments and devices and outcome
  - Routine distribution
  - Operation room
  - Endoscopic center (reprocessing of endoscopy)

The characteristic feature of our system is that the consumption status of medical materials can be managed by the individual item unit.

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In inspection, both the pink sticker which is a unique barcode for our in-hospital distribution and the GS-1 code which is attached on the medical material are scanned in order to mutually link the two codes. When inspecting the received materials, the pink barcode, GS-1 barcode, delivery date and delivery time information will be linked. Therefore, all materials are managed by the GS-1 barcode and serial code so that scanning only the in-hospital barcode will enable acquisition of consumption data of each unit.



| Nanagement of consumption : Each patient         Bardex*         Foley<br>Catheter       16 Fr<br>10 ML<br>2078 # 01050401170<br>2078 # 01050401170<br>2078 # 01050401170<br>2078 # 01050401170<br>2078 # 01050401170       X=X=X=1<br>2078 # 01050401 | the a | <i>O, JAPAN</i> | , KYOTO, | Hospital                                 | ed Cross                                       | Second                           | - Kyoto     |
|--|-------|-----------------|----------|--|--|----------------------------------|-------------|
| 日本<br>「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「  | t     | ach patient     | : Ea     | mption                                   | of consu                                       | ement                            | <b>Mana</b> |
| 日本<br>国家 の の の の の の の の の の の の の の の の の の   |       |                 |          |  |  |                                  |             |
| 日本語<br>副本の他を来る<br>Foley<br>Catheter Bardex の たのになります。 たのに、 たのに、 たのに、 たのに、 たのに、 たのに、 たのに、 たのに、  |       |                 |          |  |  | ×                                |             |
| ロ  |       |                 |          | 2040082700997000<br>村 質:<br>また 1、ラテックス製品 | バーデックス<br>Fr シルバールブリキャス                        | ardex                            |             |
|  |       |                 |          | ガンマ線派関連                                  | nL カタログ番号: 01658IJ16<br>JAN コード: 4987664011770 | olev                             | I-I F       |
|  |       |                 |          | 爱苦日: 01/2002<br>使甲期(天: 01/2006           | (Artifonic)<br>(大さい)<br>(集団区分:務款留置力テ2管一段国)     | atheter                          | 調査          |
| ■2.発売元<br>10. 00 0.000000000000000000000000000000  |       |                 |          | □ット要号:87AMR147                           | (01)04997654011770(17)060100(30)1(10)87AMR147  | ム リニノフリ *8: 7541-6046 大阪市中京江中時期本 | 編入發売元       |

expensive devices

Check the data of consumption by using handy terminals which used for injection and infusion check P





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|------------|----------------------|-------|----------------|----------------|-----------|-----------------------|--------------|
| - Kvoto    | Second               | Red   | Cross          | Hospital       | . KYOTO.  | JAPAN                 | a all the    |

|    | A     | B                        | C                  | D                    | E       |   |
|----|-------|--------------------------|--------------------|----------------------|---------|---|
| 1  | D     | 部門名                      | 合計 / 1日分定数<br>購入金額 | 合計 / 10月1日平<br>均払出金額 | 比率      |   |
| 2  | OR    |                          | 11,377,271         | 982,445              | 8.6%    |   |
| 3  | Endo  | oscopic center           | 3,276,973          | 128,669              | 3.9%    |   |
| 4  | ICU   |                          | 2,119,206          | 180,256              | 8.5%    |   |
| 5  | Radi  | ology                    | 1,918,541          | 234,080              | 12.2%   |   |
| 6  | ER    |                          | 602,138            | 54,249               | 9.0%    |   |
| 7  | Urol  | ogy                      | 540,552            | 24,911               | 4.6%    |   |
| 8  | Eme   | rgency center ward       | 489,382            | 47,094               | 9.6%    |   |
| 9  | Cent  | ral sterilization center | 397,894            | 63,957               | 16.1%   | the man and the                                 |
| 10 | Card  | io vascular ward         | 384,586            | 47,151               | 12.3%   | A CHARLEN AND A COM                             |
| 11 | Surg  | ical ward                | 293,288            | 25,004               | 8.5%    | A STREET AS A COMMON                            |
| 12 | Hem   | ofiltration center       | 293,140            | 8,917                | 3.0%    | NER   |
| 13 | Inter | nal medicine ward        | 283,889            | 16,743               | 5.9%    | And the second second second                    |
| 14 | Pedia | atrics ward              | 238,082            | 23,450               | 9.8%    |   |
| 15 | Plast | ic surgery               | 218,308            | 1,971                | 0.9%    |   |
| 16 | Neur  | o surgery                | 216,312            | 21.671               | 10.0%   |   |
| 17 | Inter | nal medicine ward (DM)   | 189,414            |                      |         | 11,377,271                                      |
| 18 | Orth  | opedics ward             | 182,824            | <b>Endosco</b>       | pic cen | ter o o re o ro                                 |
| 19 | Gyne  | ecological ward          | 178,421            |                      | P       | 3,210,913                                       |
| 20 | Baby  | center                   | 168,531            | 19,906               | 11.8%   |   |
| 21 | Gast  | roenterology ward        | 165,838            | 22,181               | 13.4%   | ESSERCE AND |
| 22 | Orth  | opedics                  | 144,843            | 7,327                | 5.1%    |   |
| 23 | Gast  | roenterology ward        | 126,311            | 10,689               | 8.5%    |   |
| 24 | Gyne  | ecology                  | 125,253            | 7,152                | 5.7%    |   |
| 25 | Gyne  | ecological ward          | 124,006            | 14,043               | 11.3%   |   |
| 26 | Surg  | ery                      | 118,711            | 6,792                | 5.7%    |   |
| 27 | Phar  | yncholanlyngiology       | 109,125            | 2,370                | 2.2%    |   |
| 28 | Cent  | ral infusion center      | 98,276             | 19,815               | 20.2%   |   |
| 29 | MRI   |                          | 92,508             | 20,889               | 22.6%   |   |
| 30 | Pedia | atrics                   | 82,354             | 4,840                | 5.9%    |   |

#### Kyoto Second Red Cross Hospital , Kyoto, Japan

#### Enter equipment and drugs used for procedure

This is a function to input information of devices and medications used in the procedure. Input items includes information of medical devices and supplies by scanning the GS1 bar code with the handy terminal.

### *Kyoto Second Red Cross Hospital , KYOTO, JAPAN* Management data

#### Each department

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|    | Α       | В            | С         | D          | E          | F          | G          | Н          | I          | J          | К      |
|----|---------|--------------|-----------|------------|------------|------------|------------|------------|------------|------------|--------|
| 1  | 合計 / 払出 | 出金額          |           | 年月         |            |            |            |            |            |            | ^      |
| 2  | 部門名     | 診療材料<br>flag | 診療科       | 200801     | 200802     | 200803     | 200804     | 200805     | 200806     | 200807     | 2      |
| 3  | 手術室     | 診療材料         | 00診療科配賦不可 | 10,535,088 | 11,747,613 | 10,852,266 | 12,045,619 | 10,526,849 | 11,460,496 | 13,921,978 | 12,75  |
| 4  | ]       |              | 00診療科判断不明 | 3,865,548  | 3,949,191  | 4,267,203  | 5,232,226  | 4,005,882  | 4,269,380  | 5,471,226  | 5,40   |
| 5  |         |              | 整形外科      | 26,663,459 | 15,930,913 | 14,519,220 | 20,028,107 | 19,325,424 | 23,292,944 | 27,774,260 | 25,320 |
| 6  |         |              | 心臓血管外科    | 11,294,059 | 17,468,063 | 15,850,273 | 15,281,027 | 11,906,257 | 10,976,164 | 15,315,973 | 14,19  |
| 7  |         |              | 外科・消化器    | 3,621,504  | 4,642,680  | 3,815,395  | 3,512,551  | 4,444,150  | 4,091,812  | 4,063,963  | 4,97!  |
| 8  |         |              | 眼科        | 3,875,064  | 3,711,947  | 4,119,808  | 4,389,535  | 3,074,089  | 3,156,561  | 2,950,101  | 3,05;  |
| 9  |         |              | 外科        | 2,661,296  | 3,475,574  | 2,340,339  | 2,753,127  | 2,051,930  | 2,273,154  | 2,373,203  | 3,86   |
| 10 |         |              | 脳神経外科     | 2,119,022  | 1,535,002  | 1,572,701  | 1,678,914  | 1,820,689  | 1,338,761  | 6,833,492  | 4,09   |
| 11 |         |              | 泌尿器科      | 796,688    | 815,826    | 904,554    | 756,666    | 573,417    | 1,311,860  | 1,058,892  | 1,06:  |
| 12 |         |              | 麻酔科       | 292,124    | 364,241    | 433,935    | 355,099    | 385,375    | 447,224    | 400,287    | 45! ≡  |
| 13 |         |              | 形成外科      | 265,797    | 113,652    | 187,782    | 208,446    | 174,174    | 223,860    | 253,386    |        |
| 14 |         |              | 婦人科       | 68,472     | 89,160     | 134,250    | 122,970    | 112,200    | 90,150     | 146,595    | 8.     |
| 15 |         |              | 耳鼻科       |            |            |            |            |            |            |            |        |
| 16 | _       |              | 消化器科      |            |            | 4,300      |            | 8,600      | 17,200     | 4,300      | •      |
| 17 |         |              | 腎臓内科      |            |            |            | 4,725      |            |            |            |        |
| 18 |         |              | 口腔外科      |            |            |            |            | 9,460      |            |            |        |
| 19 |         | 診療材料 集       | 計         | 66,058,121 | 63,843,862 | 59,002,026 | 66,369,012 | 58,418,496 | 62,949,566 | 80,567,656 | 75,27! |
| 20 |         | 対象外          | (空白)      | 1,466,151  | 1,161,879  | 627,640    | 816,353    | 2,222,329  | 3,940,692  | 507,494    | 1,76   |
| 21 |         | 対象外 集計       |           | 1,466,151  | 1,161,879  | 627,640    | 816,353    | 2,222,329  | 3,940,692  | 507,494    | 1,76   |
| 22 | 総計      |              |           | 67,524,272 | 65,005,741 | 59,629,666 | 67,185,365 | 60,640,825 | 66,890,258 | 81,075,150 | 77,04  |
| 23 |         |              |           |            |            |            |            |            |            |            |        |
| 24 |         |              |           |            |            |            |            |            | I          |            |        |
| 25 |         |              |           |            |            |            |            |            |            |            |        |

✓ ✓ ▶ ▶\ 診療科別払出し実績 /対象外製品内訳 /診療科判断不明内訳 /診療科配賦不可内訳 / ↓

26







#### Kyoto Second Red Cross Hospital , Kyoto, JAPAN

## **Rate of operation by each OR room**











|                 | - /          | Kyoto         | Sec   | ond    | Re                                    | d l   | Gros  | s Hos                              | <b>S</b> pit   | <b>tal</b>                     | , KYO  | TO, .   | IAPAN  | E Pe   | They the   | ET R   |
|-----------------|--------------|---------------|---|--------|---------------------------------------|---|---|------------------------------------|--|--------------------------------|--|---|--|--|--|--------|
| N               | la           | inag          | <b>er</b>                                       | ne     | nt                                    | da  | Ita   | of                                 | SL   | Irq                            | gica   |   | ope  | ratio  | n  |        |
|                 | A            |               | в   |        | С                                     | E   | F   | G                                  | ł  | <                              | L  | MNC   | P  | Q  | (U   | V      |
| 1               |              | _             |   |        | ±a; ⊨                                 |   | (主体)  | 収入                                 | <u> </u>   |                                |  |   |  | 支出   |  |        |
| 3               |              | 術             | 式名  |        | 件数                                    | 手技  | ( <u>+</u> 107)   |                                    | Ŧ  | 均                              | 合計   |   |  | ™<br>薬剤費   | 平均   | 合計     |
| 8               |              | CABG合計        | t   |        | 1                                     |   | 0.0   | 130780                             | 130  | 0780                           | 13078  | 0   | 277250   | 301 759  | 579009   | 579009 |
| 13              |              | ESSD合計        | .∠.≣∔   |        | 33 (<br>1 05 <b>(</b>                 | 76890<br>222050   |   | 306080                             | 242  | 2275                           | 799508   | 0   | 442335   | 69737<br>5607041                                       | 15517  | 512072 |
| 23              |              | TUR-BT        | - 1 1<br>- 計                                    |        | 38                                    | 39520   | 00.0  | 117459                             | 10   | 7091                           | 406945   | 9<br>9  | 80023  | 236659   | 8334   | 316682 |
| 28              |              | ソケイヘルニア       | 根治術   | 合計     | 33 🤇                                  | 19800   | 00 0  | 270896                             | 68   | 3209                           | 225089   | 6   | 712206   | 49716  | 23089  | 761922 |
| 33              |              | 虫垂切除          | お合計   | V A EL | 26                                    | 16146   | 00 0  | 29690                              | 63   | 3242                           | 164429   | 0   | 58929  | 60896  | 4609   | 119825 |
| <u>38</u><br>43 |              | 市土切開1<br>腹腔鏡下 | 和(C-S   |        | 57<br>                                | 85500   |   | 210691                             | 153  | 3090                           | 876069   | 1   | 259990   | 130412   | 66197  | 396402 |
|                 |              | ADCAL SAL 1 A |   | l ü    |                                       |   |   |                                    |  |                                | 1741 1   |   | X  | Υ  |  |        |
| 1.1             |              |               |   | ,,     |                                       |   |   |                                    |  |                                | Y Y  | a⊈ i I  |  |  | 1  | 3A     |
|                 |              |               | 1   | ,,     |                                       |   |   |                                    |  |                                | **   | 利   | 益  |  | No-  |        |
|                 |              |               | 1<br>2  |        |                                       | :   | 術式4   | Z                                  |  |                                |  | 利   | <u>益</u>   |  | 1  |        |
| 17              |              | 1             | 1<br>2<br>3                                     |        |                                       | i   | 術式4   | 2                                  |  | Ξ                              | 。<br>P均  | 利<br>F  | 益<br>山益額   | 利益率  | N  |        |
| in the          |              |               | 1<br>2<br>3<br>8                                |        | CAE                                   | 3G合   | 術式4<br>計  | Z                                  | -  | ء<br>–44                       | 产均<br>F均<br><mark>8229</mark>                              | 利<br>F<br>-4                                      | 益<br>川益額<br>- <mark>48229</mark>   | 利益率<br>343%  | Ĩ  |        |
|                 |              |               | 1<br>2<br>3<br>8<br>13                          |        |                                       | 。<br>3G合<br>3D合   | 術式4<br>計<br>計   | Z                                  | -  | - <u>-</u> 44<br>22            | 平均<br>8229<br>6758   | 利<br>利<br>一4<br>74                                | 益<br>山益額<br>- <mark>48229</mark><br>- <mark>83008</mark>                           | 利益率<br>-343%<br>94%                                    | Ň  |        |
|                 |              | -             | 1<br>2<br>3<br>8<br>13<br>18                    |        |                                       | 3G合<br>3D合語<br>\+ IO  | 術式4<br>計<br>計   | Z<br>≣+                            |  | -44<br>22<br>9                 | P均<br>8229<br>6758<br>0671                                 | 利<br>利<br>一4<br>74<br>167                         | 益<br>小益額<br>- <mark>48229</mark><br>-83008<br>-74076                               | 利益率<br>-343%<br>94%<br>75%                             | No contraction of the second s |        |
|                 |              | Sur As        | 1<br>2<br>3<br>8<br>13<br>18<br>23              |        |                                       | 3G合<br>3D合語<br>\+ IO<br>R-BT  | 術式4<br>計<br>計<br>心合詞  | Z<br><b>≣</b> †<br>-               |  | -44<br>22<br>9<br>9            | P均<br>8229<br>6758<br>0671<br>8757                         | 利<br>手<br>一4<br>74<br>167<br>37                   | 益<br>N益額<br>-<br>48229<br>-<br>83008<br>74076<br>52777                             | 利益率<br>-343%<br>94%<br>75%<br>92%                      | No of the second |        |
| 「加」」            |              |               | 1<br>2<br>3<br>13<br>18<br>23<br>28             |        | CAE<br>ESS<br>PEA<br>TUF<br>2/2/4     | 3G合<br>3D合語<br>3+10<br>3-BT<br>(ヘルニ)  | 術式4<br>計<br>に合計<br>ア根2                                      | 3<br>計<br>                         | ÷  | -44<br>22<br>9<br>9<br>4       | P均<br>8229<br>6758<br>0671<br>8757<br>5120                 | 利<br>〒<br>-4<br>74<br>167<br>37<br>14             | 益<br>小益額<br>-<br>48229<br>-<br>83008<br>74076<br>52777<br>-<br>52777<br>-<br>88974 | 利益率<br>-343%<br>94%<br>75%<br>92%<br>66%               |  |        |
| 三方 人工 二         |              |               | 1<br>2<br>3<br>13<br>13<br>23<br>28<br>33       |        | CAE<br>ESS<br>PEA<br>TUF<br>ソケイ<br>虫重 | BG合<br>3D合語<br>3日合語<br>3日日<br>3日日<br>3日日<br>3日日<br>3日日<br>3日日<br>3日<br>3日<br>3日<br>3日<br>3日 | 術式4<br>計<br>上合計<br>ア根2                                      | ≤<br>計<br>-<br>台術合言<br>会計          | ;+   | -44<br>22<br>9<br>4<br>5       | F均<br>8229<br>6758<br>0671<br>8757<br>5120<br>8633         | 利<br>「利<br>「利<br>167<br>37<br>14<br>15            | 益<br>J益額<br>48229<br>83008<br>74076<br>52777<br>88974<br>88974<br>24465            | 利益率<br>-343%<br>94%<br>75%<br>92%<br>66%<br>93%        |  |        |
| 三川二山市現代日        | ATT NELLER D |               | 1<br>2<br>3<br>13<br>13<br>23<br>28<br>33<br>38 |        | CAE<br>ESS<br>PEA<br>TUF<br>ソケイ<br>虫雪 | BG合語<br>SD合語<br>A+IC<br>R-BT<br>化切開<br>E切開  | 術式4<br>計<br>計<br>に合計<br>ア根で<br>引<br>行<br>板で<br>の<br>行<br>(( | Z<br>計<br>-<br>台術合語<br>子計<br>C-S)合 | ;<br>;<br>;<br>;<br>;<br>;<br>;<br>;<br>;<br>;<br>;<br>;<br>;<br>; | -44<br>22<br>9<br>4<br>5<br>14 | F均<br>8229<br>6758<br>0671<br>8757<br>5120<br>8633<br>6742 | 利<br>「利<br>「<br>74<br>167<br>37<br>14<br>15<br>83 | 益<br>J益額<br>48229<br>83008<br>74076<br>52777<br>88974<br>24465<br>64289            | 利益率<br>-343%<br>94%<br>75%<br>92%<br>66%<br>93%<br>95% |  |        |

# Kyoto Second Red Gross Hospital , KYOTO, JAPAN Result of investigation -Ratio of resource marking by GS1 code in medical materials-

2. 調査結果(概要)

- (1) 医療機器全体では、規格(品目)におけるJAN商品コード取得割合は約9割、MEDIS DCデータベース
   登録割合は約5割、バーコード貼付割合は約8割となっている。
- (2) 医療材料では、規格(品目)におけるJAN商品コード取得割合は約10割、MEDIS DCデータベース登録 割合は約6割、バーコード貼付割合は約9割となっている。

このうち特定保険医療材料については、規格(品目)におけるJAN商品コード取得割合は10割近くに達し、 MEDIS-DCデータベース登録割合は約7割、バーコード貼付割合は約9割となっている。

(3) 医療機械では、規格(品目)におけるJAN商品コード取得割合は約8割、MEDISーDCデータベース登録 割合は約4割、バーコード貼付割合は約5割となっている。

このうち特定保守管理医療機器については、規格(品目)におけるJAN商品コード取得割合は約8割、ME DIS-DCデータベース登録割合は約3割、バーコード貼付割合は約5割となっている。

(4) 体外診断用医薬品では、規格(品目)におけるJAN商品コード取得割合は約10割、MEDISーDCデータ ベース登録割合は約4割、パーコード貼付割合は約8割となっている。



#### Second Red Cross Hospital , KYOTO, JAPAN Kyoto **Classification database of medical materials and** instruments **MEDIE**<sup>TM</sup> medical Disposable Equipment JJ 1\_L TRILETI 医療材料データペース メディエについて 会社概要 お問合わせ CORPORATE PROFILE ABOUT MEDIE CONTACT US ホーム > 製品案内 > CD-ROM 会員ログイン 会員の方だけにご利用可能な データベース検索サービスをご提供 CD-ROM しております。ログインはこちらから。 CD-ROM ログインする プラチナノティエ ● 製品案内 プラチナメディエ®2008年度版 好評発売中!! 0トピックス → お問合わせはこちらから ◆ 30年の歴史を誇る「メディエ®」を 03-3537-1906 CD-ROMに収めました 受付時間:平日9:00~17:30 ◆ 平成20年4月施行の保険改正に対応 ◆ 医療材料を約32万件収録 通常価格:92.000円 |維続購入割引価格:57,000円(2007年度版をご購入のお客様で取得個数のみ対象) ※金額には消費税は含まれておりません。送料別。 $\rightarrow$ プラチナメディエ O&A FAXご注文書 **操作はとても額単** 🗜 🗛 般 🥙 🕐 🕼 🖓 🖌 💻 🎚 🗐 💆 🧶 🔒 🕵 🍫 21:34 🔏 medie - Medical ... Sa 💭 🐧 無題1.jpg - ペイント

#### - Kyoto Second Red Cross Hospital , Kyoto, JAPAN

|         |                            |        |               |           | And the second second |         |               |               |            | and the second second |
|---------|----------------------------|--------|---------------|-----------|-----------------------|---------|---------------|---------------|------------|-----------------------|
| *診療科別患者 | 資政及び診                      | 療単価調・  | «             | (600床平均は平 | P成19年度分を計。            | E)      |               |               |            |                       |
|         |                            |        |               | 入 院       |                       |         |               |               |            |                       |
|         | - 患 老粉(1)、 患者1人1日当り診療単価(円) |        |               |           | <b>単価(円)</b>          |         |               |               |            |                       |
|         |                            | 心有数(^) |               |           | DPC                   |         | DPC           | 出来高           | 手術室医想      | 療材料支出                 |
|         | 20年10月                     | 1日平均   | <u>500床平均</u> | 20年10月    | 19年度平均                | 20年10月  | 20年10月        | 20年10月        |            | 不明分案分                 |
| 内科      | 2,087                      | 67.3   | 89.5          | 49,334    | 51,357                | 47,983  | 102,960,058   | 100,140,521   |            |                       |
| 循環器科    | 944                        | 30.5   | 35.7          | 140,640   | 145,509               | 139,400 | 132,764,160   | 131,593,600   | 54,571,692 |                       |
| 循環器科    | 944                        | 30.5   | 35.7          | 140,640   | 145,509               | 139,400 | 132,764,160   | 131,593,600   | 75,769,891 |                       |
| 呼吸器科    | 1,007                      | 32.5   | 39.7          | 38,812    | 36,445                | 33,663  | 39,083,684    | 33,898,641    |            |                       |
| 消化器科    | 2,796                      | 90.2   | 57.8          | 41,040    | 38,855                | 37,713  | 114,747,840   | 105,445,548   | 6,064,662  |                       |
| 脳神経内科   | 932                        | 30.1   | 29.4          | 47,503    | 47,748                | 41,173  | 44,272,796    | 38,373,236    |            |                       |
| 小児科     | 1,095                      | 35.3   | 27.5          | 51,489    | 50,125                | 41,205  | 56,380,455    | 45,119,475    |            |                       |
| 心療内科    |                            |        |               |           |                       |         | 0             | 0             |            |                       |
| 外科      | 1,963                      | 63.3   | 54.0          | 65,103    | 60,157                | 62,329  | 127,797,189   | 122,351,827   | 6,061,177  | 2,721,697             |
| 心臓血管外科  | 892                        | 28.8   | 13.1          | 131,031   | 123,837               | 129,545 | 116,879,652   | 115,554,140   | 23,553,273 | 10,576,306            |
| 脳神経外科   | 1,094                      | 35.3   | 35.9          | 71,238    | 66,386                | 65,783  | 77,934,372    | 71,966,602    | 1,408,403  |                       |
| 整形外科    | 1,937                      | 62.5   | 61.7          | 55,898    | 55,012                | 52,684  | 108,274,426   | 102,048,908   | 16,715,761 | 7,506,006             |
| 皮膚科     | 168                        | 5.4    | 4.5           | 31,275    | 34,337                | 28,381  | 5,254,200     | 4,768,008     |            |                       |
| 形成外科    | 187                        | 6.0    | 7.4           | 51,108    | 47,970                | 47,965  | 9,557,196     | 8,969,455     |            |                       |
| 泌尿器科    | 534                        | 17.2   | 19.8          | 50,491    | 46,508                | 48,319  | 26,962,194    | 25,802,346    | 69,678     | 31,288                |
| 産婦人科    | 1,269                      | 40.9   | 38.1          | 50,801    | 49,833                | 47,809  | 64,466,469    | 60,669,621    | 70,560     | 31,684                |
| 眼科      | 578                        | 18.6   | 14.6          | 55,229    | 49,886                | 54,401  | 31,922,362    | 31,443,778    | 2,774,177  | 1,245,710             |
| 耳鼻咽喉科   | 757                        | 24.4   | 17.9          | 46,891    | 49,033                | 45,245  | 35,496,487    | 34,250,465    |            |                       |
| 放射線科    |                            |        |               |           |                       |         | 0             | 0             |            |                       |
| 歯科口腔外科  | 100                        | 3.2    | 4.0           | 42,903    | 35,671                | 42,903  | 4,290,300     | 4,290,300     |            |                       |
| 合計      | 18,340                     | 591.6  | 532.7         | 59,928    | 58,246                | 56,526  | 1,099,079,520 | 1,036,686,840 |            |                       |
|         |                            |        |               |           |                       |         |               |               |            |                       |

#### - Kyoto Second Red Cross Hospital , Kyoto, JAPAN

| *診療科別患者 |             |               |               |                                       |         |            |               |               |              |
|---------|-------------|---------------|---------------|---------------------------------------|---------|------------|---------------|---------------|--------------|
|         |             |               |               | []                                    |         | 1'         | []            |               |              |
|         |             |               |               | <u> </u>                              |         | '          |               |               |              |
|         |             |               |               | <u> </u>                              |         |            | DPC           |               |              |
|         | 差額按分込み      | 査定引き          | 薬剤引           | <u> 一人当たり</u>                         | 20年10月  | 支出合計       | 20年10月        | 客頁            | 比率           |
| 内科      |             | 102,886,962   | 94,769,747    | 45,410                                | 49,334  | 8,190,311  | 102,960,058   | 94,769,747    | 0.07954843   |
| 循環器科    |             | 78,201,886    | 77,208,725    | 81,789                                | 140,640 | 55,555,435 | 132,764,160   | 77,208,725    | 0.41845205   |
| 循環器科    |             | 57,003,687    | 56,010,526    | 59,333                                | 140,640 | 76,753,634 | 132,764,160   | 56,010,526    | 0.5781 201 3 |
| 呼吸器科    |             | 39,069,880    | 36,428,856    | 36,176                                | 38,812  | 2,654,828  | 39,083,684    | 36,428,856    | 0.06792676   |
| 消化器科    |             | 108,447,045   | 104,839,956   | 37,496                                | 41,040  | 9,907,884  | 114,747,840   | 104,839,956   | 0.08634484   |
| 脳神経内科   |             | 42,704,089    | 41,824,780    | 44,876                                | 47,503  | 1,039,613  | 44,272,796    | 43,233,183    | 0.02348198   |
| 小児科     |             | 56,350,278    | 55,742,137    | 50,906                                | 51,489  | 638,318    | 56,380,455    | 55,742,137    | 0.01132162   |
| 心療内科    |             | -21,165       | -181,721      | ·'                                    |         | 181,721    | 0             |               |              |
| 外科      | 119,014,315 | 118,780,314   | 117,004,390   | 59,605                                | 65,103  | 10,792,799 | 127,797,189   | 117,004,390   | 0.08445255   |
| 心臟血管外科  | 82,750,073  | 81,406,745    | 80,424,662    | 90,162                                | 131,031 | 36,454,990 | 116,879,652   | 80,424,662    | 0.31190194   |
| 脳神経外科   | 76,525,969  | 76,521,739    | 75,656,479    | 69,156                                | 71,238  | 2,277,893  | 77,934,372    | 75,656,479    | 0.02922835   |
| 整形外科    | 84,052,659  | 83,882,647    | 82,590,251    | 42,638                                | 55,898  | 25,684,175 | 108,274,426   | 82,590,251    | 0.23721368   |
| 皮膚科     |             | 5,201,840     | 4,876,930     | 29,029                                | 31,275  | 377,270    | 5,254,200     | 4,876,930     | 0.07180351   |
| 形成外科    |             | 9,500,672     | 9,468,072     | <u> </u>                              | 51,108  | 89,124     | 9,557,196     | 9,468,072     | 0.00932533   |
| 泌尿器科    | 26,861,228  | 26,800,813    | 26,114,198    | 48,903                                | 50,491  | 847,996    | 26,962,194    | 26,114,198    | 0.0314513    |
| 産婦人科    | 64,364,225  | 64,344,458    | 63,231,245    | 49,828                                | 50,801  | 1,235,224  | 64,466,469    | 63,231,245    | 0.01916072   |
| 眼科      | 27,902,475  | 27,889,075    | 26,941,430    | 46,611                                | 55,229  | 4,980,932  | 31,922,362    | 26,941,430    | 0.15603269   |
| 耳鼻咽喉科   |             | 35,481,314    | 34,762,211    | 45,921                                | 46,891  | 734,276    | 35,496,487    | 34,762,211    | 0.02068588   |
| 放射線科    |             | 0             | 0             | Ļ'                                    | L]      | <u>  0</u> | 0             |               |              |
| 歯科口腔外科  |             | <u> </u>      | 0             | <u> </u>                              | 42,903  | 0          | 4,290,300     | 4,290,300     | c            |
| 合計      |             | 1,096,585,049 | 1,069,845,644 | 58,334                                | 59,928  | 29,233,876 | 1,099,079,520 | 1,069,845,644 | 0.02659851   |
|         |             |               |               | · · · · · · · · · · · · · · · · · · · |         |            |               |               |              |

## **Result of time study in OR**

Second Red Cross Hospital , KYOTO, JAPAN

- Kyoto



## - Kyoto Second Red Cross Hospital , Kyoto, Japan

## **Picking tool of preparation for operation**

2013L (BRZTHRAMSK) 2013L (BRZTHRAMSK) 2013L (BRZTHRAMSK) 2013L (BRZTHRAMSK) 2013L (BRZTHRAMSK) 2013L (BRZTHRAMSK)

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#### Kyoto Second Red Cross Hospital , Kyoto, JAPAN

## Kit packing

## • PEA-IOL



OR nurse should open 57packages by one operation In one day, 4-5cases of PEA-IOL operation were performed. 250 packages should be opened!!

#### Kyoto Second Red Cross Hospital , Kyoto, JAPAN

## **Kit packing strategy**

1、对象期間:2007年4月~2008年2月

#### 2、術式別手術件数

| 順莅 | 全数           |      | 夜間(開始時間:17:10~   | ~8:30) | 休日 祝日                           |     |
|----|--------------|------|------------------|--------|---------------------------------|-----|
|    | 術式名          | 件数   | 術式名              | 件数     | 術式名                             | 件数  |
| 1  | PEA+IOL      | 779  | 虫垂切除術            | 26     | 穿頭術(脳室ドレナージ)                    | 12  |
| 2  | 外来手術         | 301  | 開頭術(開頭血腫除去術)     | 19     | 開頭術(開頭血腫除去術)                    | 10  |
| 3  | ソケイヘルニア根治術   | 138  | 腹腔鏡下虫垂切除術        | 18     | 腹腔鏡下虫垂切除術                       | 9   |
| 4  | 帝王切開術(C-S)   | 115  | 帝王切開術(C-S)       | 14     | 大腿ORIF (エースヒ <sup>®</sup> ンニング) | 9   |
| 5  | 形成術          | 112  | ドレナージ術           | 12     | 術式不明                            | 7   |
| 6  | 空鏡下胆嚢摘出術(ラバコ | 104  | 穿頭術(脳室ドレナージ)     | 12     | 帝王切開術(C-S)                      | 5   |
| 7  | TUR-BT       | 102  | 大腿ORIF(エースヒシニング) | 11     | クリッヒシク                          | 5   |
| 8  | 穿頭術(脳室ドレナージ) | 90   | 結腸切除術            | 10     | 髄内釘γネイル                         | 4   |
| 9  | ESSD         | 81   | 手ORIF            | 8      | 虫垂切除術                           | 3   |
| 10 | 手ORIF        | 77   | 開腹術              | 7      | 小腸切除術                           | 3   |
|    |              |      |                  |        | 結腸切除術                           | 3   |
|    | 合計(占有率)      | 1899 | 合計(占有率)          | 137    | 合計(占有率)                         | 70  |
|    | 総件数          | 5051 | 夜間総件数            | 321    | 休日総件数                           | 118 |

## - Kyoto Second Red Cross Hospital , KYOTO, JAPAN Outcome of using picking tool and kit packing



| <手    | Kyoto Second                                      | d Red Cross<br>Tot                  | Hospital , KYOTA<br>al outcom    | <i>o, Japan</i>      |              |
|-------|---|-------------------------------------|----------------------------------|----------------------|--------------|
|       |   | 2 0 0 7                             | 2008                             |                      | Up ratio     |
| 1     | Case of OR  | 5,857                               | 6,063                            | <b>2</b> 0 6 ↑       | 103%         |
| 2     | Over time<br>work                                 | 7,801hr                             | 6,210hr                          | $1,591hr \downarrow$ | 79%          |
| 3     | Drop out<br>ratio<br>of nurses                    | 1 3 %<br>(Total 3 8<br>Drop out 5 ) | 2.5%<br>(Total40名<br>Drop out1名) | 10.5%                | $\leftarrow$ |
| 4     | Preoperation<br>check of<br>patient<br>conditions | _                                   | 66%                              | _                    | -            |
| Ret H |   |                                     |                                  |                      |              |

