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Fresenius Medical Care

HIS-SAP Interface Specification

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# Introduction

## Purpose

This document describes business processes between HIS and SAP, and data exchange specification.

## Scope

This document is intended for developers, testers and system analysts on HIS and SAP.

## Notice

The document is the development basis for HIS-SAP interface project, Any subsequent changes must be versioned for this document.

## Terms, Definitions, Abbreviations

|  |  |  |
| --- | --- | --- |
| Term / Abbreviation | Unabbreviated Name | Description |
| HIS | Hospital information system |  |
|  |  |  |

## Reference Documents

|  |  |  |  |
| --- | --- | --- | --- |
| Document ID | Document Name | Author | Description |
|  | inSITE\_FS-I\_25-021\_CN\_V1\_HIS\_ERP\_interfaces\_1106\_EL.docx |  |  |
|  | inSITE\_FS-I\_10-044\_CN\_V1\_Hospital\_Information\_System\_interface\_1031\_EL.docx |  |  |
|  | inSITE\_FS-I\_95-044\_CN\_A1\_Vendor Master interface with HIS Idoc Outbound Interface.xlsx |  |  |
|  | inSITE\_FS-I\_95-044\_CN\_V1\_HIS Vendor Master Distribution.docx |  |  |
|  | inSITE\_FS-E\_95-043\_CN\_V1\_HIS Material Master Distribution.docx |  |  |
|  | inSITE\_FS-I\_95-043\_CN\_A1\_Material Master interface with HIS Idoc Outbound Interface.xlsx |  |  |
|  | SC meeting slide-T2R Interface.pptx |  |  |

# General Description

## Interface and Message Format

SAP and HIS provide Web Service interface with XML data.



XML data framework:

<XML>

<Head>

<InterfaceCode>H-S-XXX</InterfaceCode>

<ReqTime>XXXX-MM-DD hh:mi:ss</ReqTime>

</Head>

<Body>

{ message content here … }

</Body>

</XML>

## Common conventions

Common conventions for all interface.

所有接口公用的约定。

|  |  |
| --- | --- |
| Item | Description |
| Encoding | UTF-8 |
| Data type - Date | Send as String  Format:  YYYY-MM-DD  YYYY-MM-DD hh:mi:ss (24-hour format) |
| Data type - Boolean | 1. No 2. Yes |

# Interface Description

## Vendor Master (H-S-001)

### Functional Description

Request: SAP

Response: HIS

Frequency: Daily

1. SAP summarizing manufacture/vendor data daily, send to HIS.
2. Use vendor unique identity number in SAP in all interface.

请求方：SAP

服务方：HIS

频率：每天定时

1. SAP每天定时发起请求将厂商/供应商信息同步到HIS。
2. 传输中使用SAP的厂商/供应商代码作为厂商/供应商唯一标识。
3. 需使用类型字段区分生产厂商还是供应商或二者兼有。
4. 需使用类型字段区分服务范围，药品/物资/资产。
5. 此接口为批量接口，可同时传输多条厂商/供应商数据。
6. HIS接收到数据后，根据唯一代码查询数据库，进行新增或修改操作。
7. 改造HIS功能，SAP同步过来的供应商字段不允许修改，其它字段可提供修改。

### Data Flow Diagram



### Fields Description

#### Request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| <Items> | | | | Array start |
| VendorNo | String(50) | Y |  | Unique identification of vendor in SAP |
| VendorType | String(2) | Y |  | 1. Manufacture生产厂家 2. Supplier供货商   Sample:  1 for Manufacture, 2 for Supplier, 12 for Manufacture and Supplier |
| ServiceScope | String(3) | Y |  | 1. Drug药品 2. Material物资 3. Assets资产   Sample:  1 for Drug, 2 for Material, 3 for Asset, 12 for Drug & Material, 123 for Drug & Material & Asset |
| VendorName | String(200) | Y |  | Vendor name |
| TaxNo | String(50) | Y |  | Tax code  税号 |
| LicenseNo | String(50) |  |  | License number |
| LicenseName | String(200) |  |  | License name  Sample：  中华人民共和国医疗器械注册证 |
| LicenseEffDate | String(10) |  |  | License Effective Date |
| LicenseExpDate | String(10) |  |  | License Expire Date |
| GSPCerNo | String(50) |  |  | GSP certification number |
| GSPCerEffDate | String(10) |  |  | GSP certification Effective Date |
| GSPCerExpDate | String(10) |  |  | GSP certification Expire Date |
| StopFlag | String(1) | Y |  | 1. out of service 停用 2. normal 正常   Default 1 |
| </Items> | | | | Array end |

#### Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) |  |  | Error code |
| ErrMsg | String(100) |  |  | Error message |

## Material Master (H-S-002)

### Functional Description

Request: SAP

Response: HIS

Frequency: Daily

1. SAP summarize material master data daily send to HIS.
2. Use material unique identity number in SAP in all interface.
3. The batch master in P11 will be replicated to clinical system via the SAP PI system. This interface will send only changed data and will also provide a function to execute a initial replication of all relevant existing batches.
4. This interface will be triggered (Push) by SAP P11 system. The frequency will be set at once a day but can be changed afterwards.

请求方：SAP

服务方：HIS

频率：每天定时

1. SAP每日定时发起请求将物料主数据同步到HIS系统。
2. 传输中使用SAP的物料代码作为物料唯一标识。
3. 物料主数据包含耗材和药品，用类型字段进行区分。
4. 此接口为批量接口，可同时传输多条物料数据。
5. HIS接收到数据后，根据唯一代码查询数据库，进行新增或修改操作。
6. 改造HIS功能，SAP同步过来的字段不允许在系统中修改，其它需要增补的信息提供修改。
7. 蓝色字体标识的字段可能SAP中不能提供，可在HIS中维护。

### Data Flow Diagram



### Fields Description

#### Request

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **Scope** | **SAP Field** | **Description** |
| <Items> | | | | | Array start |
| MaterialNo | String(50) | Y | D&M |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y | D&M |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y | D&M |  | Common Name  通用名 |
| ProductName | String(200) |  | D&M |  | Product Name  商品名 |
| Barcode | String(100) | Y | D&M |  | Barcode  条码 |
| MfrNo | String(50) | Y | D&M |  | Manufacturer number  Vendor number from vendor master  生产厂商ID，来自于供应商主数据 |
| MfrName | String(200) | Y | D&M |  | Manufacturer Name  生产厂商名称 |
| PkgUnit | String(30) | Y | D&M |  | Packing Unit 包装单位  See $5.1 & $5.2 Common Unit Mapping  Sample:  Box |
| PkgQty | Integer | Y | D&M |  | Packing Quantity 包装数量  Sample:  7 |
| MinUnit | String(30) | Y | D&M |  | Min Unit 最小单位  See $5.1 & $5.2 Common Unit Mapping  Sample:  Pieces |
| DosageUnit | String(30) | Y | D |  | Dosage Unit 剂量单位  See $5.1 & $5.2 Common Unit Mapping  Sample:  Mg |
| BasicDosage | Integer | Y | D |  | Basic Dosage  Sample:  20 |
| Spec | String(50) | Y | D&M |  | Specifications  Sample:  20mg\*7 tablets/box |
| LicenseNo | String(50) |  | M |  | License number from vendor master |
| StopFlag | String(1) | Y | D&M |  | 1. out of service 停用 2. normal 正常   Default 1 |
|  | | | | | |
| DrugProp | String(30) | Y | D |  | Drug Properties  See $5.3  药品性质 |
| DosageForm | String(30) |  | D |  | dosage form  See $5.4  剂型编码 |
| Usage | String(30) |  | D |  | Usage  See $5.5  用法编码 |
| Freq | String(100) |  | D |  | Default Frequency  See $5.6  默认使用频次 |
| NSCode | String(100) |  | D |  | National standard code  国标准字 |
| PriceCode | String(100) |  | D |  | Price code  物价编码 |
| AntiCode | String(100) |  | D |  | Antimicrobial Coding  抗菌药编码 |
| PstDrug | Boolean | Y | D |  | Prescription Drug  是否处方药 |
| SkinTestReq | Boolean | Y | D |  | Skin Test Required  是否需要皮试 |
|  | | | | | |
| MaterialCat | String(50) | Y | M |  | Material category  See $5.7  物资类型 |
| DispMatrial | Boolean | Y | M |  | Disposable Material  是否一次性物料 |
| Implant | Boolean | Y | M |  | Implant  是否植入物 |
| <Items> | | | | | Array end |

#### Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) |  |  | Error code |
| ErrMsg | String(100) |  |  | Error message |

## Purchase Requisition (H-S-003)

### Functional Description

Request: HIS

Response: SAP

Frequency: Daily

1. HIS summarize approved PR daily, send to SAP.
2. SAP generate PR and send back PR data to HIS. With item row number in SAP.

请求方：HIS

服务方：SAP

频率：每天定时

1. HIS系统每日定时将当天发生的所有审批过的采购申请汇总发送到SAP。
2. 采购申请为批量接口，一次采购申请包含多种物料。
3. SAP系统创建完采购申请后，返回给HIS采购申请的ID，以及每种采购物料在SAP系统采购申请中的行号。

### Data Flow Diagram



### Fields Description

#### Request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| <Hospitals> | | | | Array start |
| HosNo | String(50) | Y |  | Company code in SAP |
| PRDate | String(19) | Y |  | Purchase Requisition create date |
| GRDate | String(19) | Y |  | Latest goods receive date |
| HISPRNo | String(32) | Y |  | Purchase Requisition code in HIS |
| <Items> | | | | Array start |
| MaterialNo | String(50) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| MfrNo | String(50) | Y |  | Manufacturer number  Vendor number from vendor master |
| MfrName | String(200) | Y |  | Manufacturer Name |
| PkgUnit | String(30) | Y |  |  |
| Qty | Integer | Y |  | Purchase quantity |
| </Items> | | | | Array end |
| </Hospitals> | | | | Array end |

#### Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) |  |  | Error code |
| ErrMsg | String(100) |  |  | Error message |
| <Hospitals> | | | | Array start |
| HosNo | String(50) | Y |  | Company code in SAP |
| PRNo | String(50) | Y |  | Purchase Requisition code in SAP |
| <Items> | | | | Array start |
| MaterialNo | String(50) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| ItemNo | String(10) | Y |  | Row number in SAP |
| PkgUnit | String(30) | Y |  |  |
| Qty | Integer | Y |  | Purchase quantity |
| </Items> | | | | Array end |
| </Hospitals> | | | | Array end |

## Purchase Order (H-S-004)

### Functional Description

Request: SAP

Response: HIS

Frequency: Daily

1. SAP summarize all PO daily, send to HIS.
2. PO data must with PR number in SAP.

请求方：SAP

服务方：HIS

频率：每天定时

1. SAP中根据采购申请生成采购订单后，每日定时将所有当天发生的采购单信息同步到HIS。
2. 采购订单中需对应采购申请的ID，为兼容多个采购申请对应一个采购订单的情况，采购申请号跟随明细传输。

### Data Flow Diagram



### Fields Description

#### Request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| <Hospitals> | | | | Array start |
| HosNo | String(50) | Y |  | Company code in SAP |
| PONo | String(50) | Y |  | Purchase order number in SAP |
| PODate | String(19) | Y |  | Purchase order create date |
| VendorNo | String(50) | Y |  | Vendor number in vendor mater |
| VendorName | String(200) | Y |  | Vendor name in vendor mater |
| GRDate | String(10) | Y |  | Goods receive date of contract |
| <Items> | | | | Array start |
| PRNo | String(50) | Y |  | Purchase Requisition code in SAP |
| ItemNo | String(10) | Y |  | Row number in SAP |
| MaterialNo | String(50) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| MfrNo | String(50) | Y |  | Manufacturer number  Vendor number from vendor master |
| MfrName | String(200) | Y |  | Manufacturer Name |
| PkgUnit | String(30) | Y |  |  |
| Qty | Integer | Y |  | Purchase quantity |
| Price | Number(17,4) | Y |  | Purchase price |
| TotalAmt | Number(17,2) | Y |  | Purchase item total amount |
| </Items> | | | | Array end |
| </Hospitals> | | | | Array end |

#### Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) |  |  | Error code |
| ErrMsg | String(100) |  |  | Error message |

## Goods Receive (H-S-005)

### Functional Description

Request: HIS

Response: SAP

Frequency: Daily

1. HIS summarize all GR data daily, send to SAP.
2. HIS supports split delivery.

请求方：HIS

服务方：SAP

频率：每天定时

1. 中心线下收到货物后，根据PO完成收货操作，HIS每日定时汇总所有到货信息同步到SAP。
2. 支持多批收货，部分收货的PO仍处于待收货状态，直到收到全部货物为止。

### Data Flow Diagram



### Fields Description

#### Request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| <Hospitals> | | | | Array start |
| HosNo | String(50) | Y |  | Company code in SAP |
| PONo | String(50) | Y |  | Purchase order number in SAP |
| GRDate | String(19) | Y |  | Goods receive date |
| <Items> | | | | Array start |
| ItemNo | String(10) | Y |  | Row number in SAP |
| MaterialNo | String(50) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| MfrNo | String(50) | Y |  | Manufacturer number  Vendor number from vendor master |
| MfrName | String(200) | Y |  | Manufacturer Name |
| PkgBatchNo | String(30) |  |  | Batch number on package  批号 |
| BatchNo | Integer |  |  | Batch number in HIS  批次 |
| PkgUnit | String(30) | Y |  |  |
| Qty | Integer | Y |  | Purchase quantity |
| ProDate | String(10) | Y |  | Production date |
| ExpDate | String(10) | Y |  | Expiry Date |
| </Items> | | | | Array end |
| </Hospitals> | | | | Array end |

#### Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) |  |  | Error code |
| ErrMsg | String(100) |  |  | Error message |

## Goods Return (H-S-006)

### Functional Description

Request: HIS

Response: SAP

Frequency: Daily

1. HIS summarize goods return data daily, send to HIS.

请求方：HIS

服务方：SAP

频率：每天定时

1. 中心需要退货时，根据PO填写退货数量，并填写退货原因进行退货。
2. HIS每日定时统计所有当天发生得退货信息发送到SAP。

### Data Flow Diagram



### Fields Description

#### Request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| <Hospitals> | | | | Array start |
| HosNo | String(50) | Y |  | Company code in SAP |
| PONo | String(50) | Y |  | Purchase order number in SAP |
| ReturnDate | String(19) | Y |  | Goods return date |
| Comment | String(200) | Y |  | Comment for goods return |
| <Items> | | | | Array start |
| ItemNo | String(10) | Y |  | Row number in SAP |
| MaterialNo | String(50) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| MfrNo | String(50) | Y |  | Manufacturer number  Vendor number from vendor master |
| MfrName | String(200) | Y |  | Manufacturer Name |
| PkgBatchNo | String(30) |  |  | Batch number on package  批号 |
| BatchNo | Integer |  |  | Batch number in HIS  批次 |
| PkgUnit | String(30) | Y |  |  |
| RtnQty | Integer | Y |  | Goods return quantity |
| </Items> | | | | Array end |
| </Hospitals> | | | | Array end |

#### Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) |  |  | Error code |
| ErrMsg | String(100) |  |  | Error message |

## Inventory Movement (H-S-007)

### Functional Description

Request: HIS

Response: SAP

Frequency: Daily

1. HIS summarize inventory movement data daily, send to HIS.

请求方：HIS

服务方：SAP

频率：每天定时

1. HIS系统每日定时统计当天所有的物料消耗、报损、盘盈、盘亏等信息同步到SAP。

### Data Flow Diagram



### Fields Description

#### Request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| <Hospitals> | | | | Array start |
| HosNo | String(50) | Y |  | Company code in SAP |
| TransDate | String(19) | Y |  | Date of goods movement |
| <Items> | | | | Array start |
| MaterialNo | String(50) | Y |  | Unique identification of material in SAP |
| MaterialType | String(1) | Y |  | 1. Drug药品 2. Material物资 |
| CommonName | String(200) | Y |  | Common Name  通用名 |
| MfrNo | String(50) | Y |  | Manufacturer number  Vendor number from vendor master |
| MfrName | String(200) | Y |  | Manufacturer Name |
| MovType | String(1) | Y |  | 1. consume消耗 2. breakage报损 3. income on disposal 盘盈 4. loss on disposal 盘亏 |
| PkgBatchNo | String(30) |  |  | Batch number on package  批号 |
| BatchNo | Integer |  |  | Batch number in HIS  批次 |
| PkgUnit | String(30) | Y |  |  |
| Qty | Integer | Y |  | Goods movement quantity |
| </Items> | | | | Array end |
| </Hospitals> | | | | Array end |

#### Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) |  |  | Error code |
| ErrMsg | String(100) |  |  | Error message |

## Accounting (H-S-008)

### Functional Description

Request: HIS

Response: SAP

Frequency: Daily

1. HIS generate finance voucher daily, send to SAP.

请求方：HIS

服务方：SAP

频率：每天定时

1. HIS系统每日定时汇总财务账信息发送到SAP。
2. 根据费用类型汇总为多条数据批量发送。
3. HIS汇总收入时分现金和医保生成两笔汇总。

### Data Flow Diagram



### Fields Description

#### Request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| <Hospitals> | | | | Array start |
| HosNo | String(50) | Y |  | Company code in SAP |
| BookDate | String(19) | Y |  | Date of bookkeeping |
| <Vouchers> | | | | Array start |
| FiscalYear | String(4) |  | GJAHR | Fiscal Year |
| VoucherType | String(2) |  | BLART | 1. cash 2. medical insurance |
| Bookkeeper | String(50) |  | USNAM | User name in HIS |
| TypeTxt | String(50) |  | BKTXT | Text of type  Cash for 1  Medical Insurance for 2  费用分类名称 |
| VoucherNo | String(50) |  | AWREF | Reference document number  (external document number)  HIS凭证号码 |
| <Items> | | | | Array start |
| ItemType1 | String(2) |  | BSCHL | 医保Dr:01, Cr:11  医保预收19  退款/冲销医保预收09  银行存款DR 40，CR50  收入DR50，CR40 |
| ItemType2 |  |  | KOART | D – medical insurance 医保  S – revenue 银行和收入 |
| Flag |  |  | SHKZG | H - Credit  S - Debit |
| AmtLC | Number(17,4) |  | DMBTR | Amount in local currency |
| AmtDC | Number(17,4) |  | WRBTR | Amount in document currency |
| AmtGL | Number(17,4) |  | PSWBT | Amount for Updating in General Ledger |
| ItemTxt |  |  | SGTXT | Item Text  “X月X日现金/医保收入”，新农合还是城镇医保 |
| Subsidiary Ledger | | | | |
| AccountNo |  |  | SAKNR | G/L Account Number  费用项目和SAP会计科目的对应关系 |
| GLInd |  |  | UMSKZ | Special G/L Indicator |
| Tax data | | | | |
| CustNo |  |  | KUNNR | Customer Number |
| LineItemNo |  |  | BUZEI | Number of Line Item Within Accounting Document |
| Flag |  |  | SHKZG | Debit/Credit Indicator |
| </Items> | | | | Array end |
| </Vouchers> | | | | Array end |
| </Hospitals> | | | | Array end |

#### Response

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Required** | **SAP Field** | **Description** |
| Success | Boolean | Y |  | true or false |
| ErrCode | String(3) |  |  | Error code |
| ErrMsg | String(100) |  |  | Error message |

# Implementation Plan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Phase** | **Cost**  **（MD）** | **Price** | **Amount** | **Finished Date** | **Description** |
| **1. Requirement** |  |  |  | **2017-12-5** |  |
| 1.1 Business dept requirement discussion & confirm | 10 | 6000 | 60000 | 2017-11-18 |  |
| 1.2 Interface specification document | 3 | 6000 | 18000 | 2017-11-29 | Generate interface documents that can guide development |
| 1.3 Review Data Flow Diagram | 1 | 6000 | 6000 | 2017-12-3 | Business dept review data flow diagram |
| 1.4 Review Fields | 2 | 6000 | 12000 | 2017-12-5 | SAP developers review interface fields |
| **2. Design** | 3 | 6000 | 18000 | **2017-12-8** |  |
| **3. Development** |  |  |  | **2017-12-20** |  |
| 3.1 Vendor Master | 3 | 3500 | 10500 | 2017-12-8 |  |
| 3.2 Material Master | 3 | 3500 | 10500 | 2017-12-8 |  |
| 3.3 Purchase Requisition | 3 | 3500 | 10500 | 2017-12-11 |  |
| 3.4 Purchase Order & Goods Receive | 8 | 3500 | 28000 | 2017-12-14 |  |
| 3.5 Purchasing Goods Return | 4 | 3500 | 14000 | 2017-12-14 |  |
| 3.6 Inventory Movement | 4 | 3500 | 14000 | 2017-12-20 |  |
| 3.7 Daily Accounting | 3 | 3500 | 10500 | 2017-12-20 |  |
| 3.8 Refund | 3 | 3500 | 10500 | 2017-12-20 |  |
| **4. Testing** |  |  |  | **2018-1-15** |  |
| 4.1 Unit Test | 5 | 3500 | 17500 | 2017-12-25 |  |
| 4.2 Joint Test | 10 | 3500 | 35000 | 2018-1-15 |  |
| **5. Publish** |  |  |  | ？ |  |
| **Total:** | 65 |  | 275000 |  |  |

# Appendix

## Drug – Common Unit Mapping

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
| g | 1 | g |  |
| Kg | 2 | Kg |  |
| l | 3 | l |  |
| mCi | 4 | mCi |  |
| ml | 5 | ml |  |
|  | 6 | 板 |  |
| box | 7 | 包 |  |
|  | 8 | 袋 |  |
|  | 9 | 对 |  |
|  | 10 | 付 |  |
|  | 11 | 盒 |  |
|  | 12 | 件 |  |
|  | 13 | 枚 |  |
|  | 14 | 瓶 |  |
|  | 15 | 套 |  |
|  | 16 | 条 |  |
|  | 17 | 听 |  |
|  | 18 | 桶 |  |
|  | 19 | 筒 |  |
|  | 20 | 张 |  |
|  | 21 | 支 |  |

## Material - Common Unit Mapping

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
|  | 1 | 组 |  |
|  | 2 | 种 |  |
|  | 3 | 只 |  |
|  | 4 | 枝 |  |
|  | 6 | 张 |  |
|  | 7 | 盏 |  |
|  | 8 | 箱 |  |
|  | 9 | 无 |  |
|  | 10 | 位 |  |
|  | 11 | 团 |  |
|  | 12 | 筒 |  |
|  | 13 | 桶 |  |
|  | 14 | 听 |  |
|  | 15 | 条 |  |
|  | 16 | 套 |  |
|  | 17 | 台 |  |
|  | 18 | 双 |  |
|  | 19 | 束 |  |
|  | 20 | 升 |  |
|  | 21 | 扇 |  |
|  | 22 | 圈 |  |
|  | 23 | 千 |  |
|  | 24 | 瓶 |  |
|  | 25 | 平 |  |
|  | 26 | 片 |  |
|  | 27 | 批 |  |
|  | 28 | 盘 |  |
|  | 29 | 米 |  |
|  | 30 | 枚 |  |
|  | 31 | 令 |  |
|  | 32 | 领 |  |
|  | 33 | 辆 |  |
|  | 34 | 两 |  |
|  | 35 | 粒 |  |
|  | 36 | 捆 |  |
|  | 37 | 块 |  |
|  | 38 | 颗 |  |
|  | 39 | 卷 |  |
|  | 40 | 具 |  |
|  | 41 | 斤 |  |
|  | 42 | 节 |  |
|  | 43 | 件 |  |
|  | 44 | 架 |  |
|  | 45 | 盒 |  |
|  | 46 | 合 |  |
|  | 47 | 罐 |  |
|  | 48 | 鼓 |  |
|  | 49 | 根 |  |
|  | 50 | 个 |  |
|  | 51 | 副 |  |
|  | 52 | 付 |  |
|  | 53 | 伏 |  |
|  | 54 | 份 |  |
|  | 55 | 砘 |  |
|  | 56 | 吨 |  |
|  | 57 | 对 |  |
|  | 58 | 顶 |  |
|  | 59 | 刀 |  |
|  | 60 | 袋 |  |
|  | 61 | 打 |  |
|  | 62 | 串 |  |
|  | 63 | 尺 |  |
|  | 64 | 并 |  |
|  | 65 | 本 |  |
|  | 66 | 包 |  |
|  | 67 | 板 |  |
|  | 68 | 把 |  |
|  | 69 | 巴 |  |
|  | 70 | TS |  |
|  | 71 | mm |  |
|  | 72 | M3 |  |
|  | 73 | m2 |  |
|  | 74 | L |  |
|  | 75 | KW |  |
|  | 76 | KM |  |
|  | 77 | Kg |  |
|  | 78 | gd |  |

## Drug – Drug Properties Mapping

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
|  | 1 | 普药 |  |
|  | 2 | 大输液 |  |
|  | 3 | 毒药 |  |
|  | 4 | 麻药 |  |
|  | 5 | 精神Ⅰ类药品 |  |
|  | 6 | 精神Ⅱ类药品 |  |
|  | 7 | 化疗药 |  |
|  | 8 | 非限制级抗菌素 |  |
|  | 9 | 放射性药物 |  |
|  | 10 | 限制级抗菌素 |  |
|  | 11 | 特殊级抗菌素 |  |

## Drug – Dosage Form Mapping

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
|  | 1 | 巴布膏剂 |  |
|  | 2 | 薄膜衣片 |  |
|  | 3 | 鼻喷剂 |  |
|  | 4 | 鼻喷雾剂 |  |
|  | 5 | 搽剂 |  |
|  | 6 | 肠溶胶囊 |  |
|  | 7 | 肠溶胶囊(微丸) |  |
|  | 8 | 肠溶片 |  |
|  | 9 | 冲洗剂 |  |
|  | 10 | 大蜜丸 |  |
|  | 11 | 滴鼻剂 |  |
|  | 12 | 滴耳剂 |  |
|  | 13 | 滴剂 |  |
|  | 14 | 滴剂（胶囊型） |  |
|  | 15 | 滴丸剂 |  |
|  | 16 | 滴眼剂 |  |
|  | 17 | 滴眼剂(含玻璃酸钠) |  |
|  | 18 | 滴眼液 |  |
|  | 19 | 锭剂 |  |
|  | 20 | 动物类 |  |
|  | 21 | 冻干粉 |  |
|  | 22 | 分散片 |  |
|  | 23 | 粉剂 |  |
|  | 24 | 敷剂 |  |
|  | 25 | 干混悬剂 |  |
|  | 26 | 干混悬剂(无糖型) |  |
|  | 27 | 膏剂 |  |
|  | 28 | 膏药 |  |
|  | 29 | 膏滋剂 |  |
|  | 30 | 根茎类 |  |
|  | 31 | 宫内节育系统 |  |
|  | 32 | 灌肠剂 |  |
|  | 33 | 含漱剂 |  |
|  | 34 | 合剂 |  |
|  | 35 | 合剂(含口服液) |  |
|  | 36 | 合剂(含口服液)(党参方) |  |
|  | 37 | 合剂(含口服液)(无糖型) |  |
|  | 38 | 合剂（口服液） |  |
|  | 39 | 糊剂 |  |
|  | 40 | 花类 |  |
|  | 41 | 花叶类 |  |
|  | 42 | 缓释胶囊 |  |
|  | 43 | 缓释颗粒剂 |  |
|  | 44 | 缓释片 |  |
|  | 45 | 混悬滴剂 |  |
|  | 46 | 混悬滴眼液 |  |
|  | 47 | 混悬剂 |  |
|  | 48 | 混悬剂(缓释) |  |
|  | 49 | 煎膏剂 |  |
|  | 50 | 胶剂 |  |
|  | 51 | 胶浆剂 |  |
|  | 52 | 胶囊剂 |  |
|  | 53 | 胶囊剂(肠溶) |  |
|  | 54 | 胶囊剂(肠溶缓释) |  |
|  | 55 | 胶囊剂(肠溶冷藏) |  |
|  | 56 | 胶囊剂(肠溶微丸) |  |
|  | 57 | 胶囊剂(缓释) |  |
|  | 58 | 胶囊剂(控释) |  |
|  | 59 | 胶囊剂(阴道) |  |
|  | 60 | 胶囊剂(阴道泡腾) |  |
|  | 61 | 胶囊剂（微丸） |  |
|  | 62 | 茎木类 |  |
|  | 63 | 酒剂 |  |
|  | 64 | 菌藻类 |  |
|  | 65 | 颗粒剂 |  |
|  | 66 | 颗粒剂(低糖型) |  |
|  | 67 | 颗粒剂(泡腾） |  |
|  | 68 | 颗粒剂(无糖型) |  |
|  | 69 | 口服混悬剂 |  |
|  | 70 | 口服溶液剂 |  |
|  | 71 | 口服溶液剂(无糖型) |  |
|  | 72 | 口服乳剂 |  |
|  | 73 | 口腔贴片 |  |
|  | 74 | 矿物类 |  |
|  | 75 | 蜡棒 |  |
|  | 76 | 流浸膏剂 |  |
|  | 77 | 露剂 |  |
|  | 78 | 免煎剂 |  |
|  | 79 | 膜剂 |  |
|  | 80 | 凝胶剂 |  |
|  | 81 | 凝胶剂(口服) |  |
|  | 82 | 凝胶剂(阴道) |  |
|  | 83 | 喷鼻剂 |  |
|  | 84 | 喷雾剂 |  |
|  | 85 | 皮类 |  |
|  | 86 | 片剂 |  |
|  | 87 | 片剂(肠溶) |  |
|  | 88 | 片剂(肠溶缓释) |  |
|  | 89 | 片剂(分散) |  |
|  | 90 | 片剂(含片) |  |
|  | 91 | 片剂(含片)(无糖型) |  |
|  | 92 | 片剂(缓释) |  |
|  | 93 | 片剂(咀嚼) |  |
|  | 94 | 片剂(控释) |  |
|  | 95 | 片剂(口腔崩解) |  |
|  | 96 | 片剂(泡腾) |  |
|  | 97 | 片剂(糖衣) |  |
|  | 98 | 片剂(阴道) |  |
|  | 99 | 片剂(阴道泡腾) |  |
|  | 100 | 片剂(阴道片) |  |
|  | 101 | 片剂（薄膜衣） |  |
|  | 102 | 其他 |  |
|  | 103 | 其他类 |  |
|  | 104 | 气雾剂 |  |
|  | 105 | 气雾剂（溶液型） |  |
|  | 106 | 全草类 |  |
|  | 107 | 溶液剂 |  |
|  | 108 | 溶液剂（吸入） |  |
|  | 109 | 乳膏剂 |  |
|  | 110 | 乳剂 |  |
|  | 111 | 乳胶剂 |  |
|  | 112 | 软膏剂 |  |
|  | 113 | 软胶囊(胶丸) |  |
|  | 114 | 软胶囊(胶丸)(肠溶) |  |
|  | 115 | 软胶囊(胶丸)(天然型) |  |
|  | 116 | 软胶囊(胶丸)(阴道) |  |
|  | 117 | 软胶囊剂 |  |
|  | 118 | 散剂 |  |
|  | 119 | 散剂(口服) |  |
|  | 120 | 散剂(外用) |  |
|  | 121 | 湿巾 |  |
|  | 122 | 树脂类 |  |
|  | 123 | 栓剂 |  |
|  | 124 | 栓剂(阴道) |  |
|  | 125 | 霜剂 |  |
|  | 126 | 水蜜丸 |  |
|  | 127 | 水丸 |  |
|  | 128 | 糖浆剂 |  |
|  | 129 | 糖浆剂(无糖) |  |
|  | 130 | 藤木树脂 |  |
|  | 131 | 贴敷剂 |  |
|  | 132 | 贴膏剂 |  |
|  | 133 | 贴剂 |  |
|  | 134 | 贴剂(控释) |  |
|  | 135 | 透皮贴剂 |  |
|  | 136 | 透皮贴剂(缓释) |  |
|  | 137 | 透析液 |  |
|  | 138 | 涂膜剂 |  |
|  | 139 | 外用溶液剂 |  |
|  | 140 | 外用软膏剂 |  |
|  | 141 | 丸剂 |  |
|  | 142 | 丸剂(包衣浓缩水丸) |  |
|  | 143 | 丸剂(大蜜丸) |  |
|  | 144 | 丸剂(大蜜丸)(天然牛黄) |  |
|  | 145 | 丸剂(糊丸) |  |
|  | 146 | 丸剂(浓缩水丸) |  |
|  | 147 | 丸剂(浓缩丸) |  |
|  | 148 | 丸剂(水蜜丸) |  |
|  | 149 | 丸剂(水丸) |  |
|  | 150 | 丸剂(素丸) |  |
|  | 151 | 丸剂(微丸) |  |
|  | 152 | 丸剂(小蜜丸) |  |
|  | 153 | 丸剂（大蜜丸） |  |
|  | 154 | 丸剂（蜜丸） |  |
|  | 155 | 丸剂（浓缩蜜丸） |  |
|  | 156 | 丸剂（浓缩水蜜丸） |  |
|  | 157 | 丸剂（微丸） |  |
|  | 158 | 雾化混悬液 |  |
|  | 159 | 雾化溶液剂 |  |
|  | 160 | 吸入粉雾剂 |  |
|  | 161 | 吸入剂 |  |
|  | 162 | 吸入溶液剂 |  |
|  | 163 | 洗剂 |  |
|  | 164 | 橡胶膏剂 |  |
|  | 165 | 熏蒸剂 |  |
|  | 166 | 眼膏剂 |  |
|  | 167 | 眼用凝胶剂 |  |
|  | 168 | 叶类 |  |
|  | 169 | 阴道泡腾片 |  |
|  | 170 | 硬胶囊剂 |  |
|  | 171 | 油剂 |  |
|  | 172 | 原料 |  |
|  | 173 | 植入剂(缓释) |  |
|  | 174 | 炙烫类 |  |
|  | 175 | 种子果实 |  |
|  | 176 | 种子原 |  |
|  | 177 | 注射剂 |  |
|  | 178 | 注射剂(冻干) |  |
|  | 179 | 注射剂(溶媒结晶) |  |
|  | 180 | 注射液 |  |
|  | 181 | 注射液(笔芯) |  |
|  | 182 | 注射液(非PVC软袋双阀双层无菌) |  |
|  | 183 | 注射液(软袋) |  |
|  | 184 | 注射液(软袋双阀) |  |
|  | 185 | 注射液(软袋双阀双层无菌) |  |
|  | 186 | 注射液(双袋双联) |  |
|  | 187 | 注射液(塑料安瓿) |  |
|  | 188 | 注射液(塑瓶) |  |
|  | 189 | 注射液(特充) |  |
|  | 190 | 注射液(预充式) |  |
|  | 191 | 注射液(预灌封) |  |
|  | 192 | 注射液(直立式聚丙烯输液袋) |  |
|  | 193 | 酊剂 |  |
|  | 194 | 酏剂 |  |

## Drug – Usage Mapping

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
|  | 1 | TPN静脉点滴 |  |
|  | 2 | 膀胱冲洗 |  |
|  | 3 | 膀胱灌注 |  |
|  | 4 | 膀胱区封闭 |  |
|  | 5 | 膀胱注射 |  |
|  | 6 | 包煎 |  |
|  | 7 | 备药 |  |
|  | 8 | 鼻丘封闭 |  |
|  | 9 | 鼻饲 |  |
|  | 10 | 鼻饲管十二指肠灌注 |  |
|  | 11 | 持续膀胱冲冼 |  |
|  | 12 | 持续湿化气道 |  |
|  | 13 | 冲服 |  |
|  | 14 | 冲管用 |  |
|  | 15 | 冲洗 |  |
|  | 16 | 出院带药 |  |
|  | 17 | 袋泡 |  |
|  | 18 | 滴鼻 |  |
|  | 19 | 滴耳 |  |
|  | 20 | 滴双耳 |  |
|  | 21 | 滴双眼 |  |
|  | 22 | 滴眼 |  |
|  | 23 | 滴右耳 |  |
|  | 24 | 滴右眼 |  |
|  | 25 | 滴左耳 |  |
|  | 26 | 滴左眼 |  |
|  | 27 | 动脉注射 |  |
|  | 28 | 封管 |  |
|  | 29 | 腹膜内注射 |  |
|  | 30 | 腹腔灌注 |  |
|  | 31 | 腹腔内注射 |  |
|  | 32 | 宫肌注射 |  |
|  | 33 | 宫颈封闭 |  |
|  | 34 | 宫颈注射 |  |
|  | 35 | 宫腔注射 |  |
|  | 36 | 关节腔注射 |  |
|  | 37 | 灌肠 |  |
|  | 38 | 后下 |  |
|  | 39 | 后穹窿穿刺 |  |
|  | 40 | 后穹隆注射 |  |
|  | 41 | 化疗动脉注射 |  |
|  | 42 | 化疗腹腔注射 |  |
|  | 43 | 化疗关节腔注射 |  |
|  | 44 | 化疗肌注 |  |
|  | 45 | 化疗静滴 |  |
|  | 46 | 化疗静脉泵入 |  |
|  | 47 | 化疗静推 |  |
|  | 48 | 化疗皮下注射 |  |
|  | 49 | 化疗鞘内注射 |  |
|  | 50 | 化疗漱口 |  |
|  | 51 | 化疗胸腔注射 |  |
|  | 52 | 肌肉注射 |  |
|  | 53 | 煎服 |  |
|  | 54 | 结肠灌洗 |  |
|  | 55 | 结膜囊冲洗 |  |
|  | 56 | 静脉泵入 |  |
|  | 57 | 静脉点滴 |  |
|  | 58 | 静脉全麻 |  |
|  | 59 | 静脉输血 |  |
|  | 60 | 静脉吸入复合全麻 |  |
|  | 61 | 静脉注射 |  |
|  | 62 | 局部封闭 |  |
|  | 63 | 局部高压注射 |  |
|  | 64 | 局部麻醉 |  |
|  | 65 | 局部涂擦 |  |
|  | 66 | 抗凝用 |  |
|  | 67 | 口服 |  |
|  | 68 | 口含 |  |
|  | 69 | 口腔喷 |  |
|  | 70 | 扩宫 |  |
|  | 71 | 冷敷 |  |
|  | 72 | 冷疗 |  |
|  | 73 | 麻醉辅助 |  |
|  | 74 | 每次50ml-100ml |  |
|  | 75 | 每剂水煎至 |  |
|  | 76 | 每剂水煎至100ml |  |
|  | 77 | 每剂水煎至150ml |  |
|  | 78 | 每剂水煎至300ml |  |
|  | 79 | 每剂水煎至400ml |  |
|  | 80 | 每剂水煎至500ml |  |
|  | 81 | 每剂水煎至600ml |  |
|  | 82 | 莫非氏管滴入 |  |
|  | 83 | 脑室冲洗 |  |
|  | 84 | 内痣注射 |  |
|  | 85 | 喷鼻 |  |
|  | 86 | 喷喉 |  |
|  | 87 | 皮内注射 |  |
|  | 88 | 皮试 |  |
|  | 89 | 皮下注射 |  |
|  | 90 | 气管内注入 |  |
|  | 91 | 前列腺注射 |  |
|  | 92 | 鞘内封闭 |  |
|  | 93 | 鞘内注射 |  |
|  | 94 | 清洁灌肠 |  |
|  | 95 | 球后注射 |  |
|  | 96 | 球结膜下注射 |  |
|  | 97 | 球旁注射 |  |
|  | 98 | 球周半球后注射 |  |
|  | 99 | 热敷 |  |
|  | 100 | 入壶 |  |
|  | 101 | 塞肛 |  |
|  | 102 | 三叉神经注射 |  |
|  | 103 | 舌下含服 |  |
|  | 104 | 神经组织 |  |
|  | 105 | 湿敷 |  |
|  | 106 | 首剂加倍 |  |
|  | 107 | 术前0.5-2小时使用 |  |
|  | 108 | 术中备用 |  |
|  | 109 | 漱口用 |  |
|  | 110 | 双下甲注射 |  |
|  | 111 | 通水 |  |
|  | 112 | 涂臀 |  |
|  | 113 | 外敷 |  |
|  | 114 | 外用 |  |
|  | 115 | 胃管内注入 |  |
|  | 116 | 雾化吸入 |  |
|  | 117 | 吸入 |  |
|  | 118 | 吸入全麻 |  |
|  | 119 | 洗耳 |  |
|  | 120 | 洗眼 |  |
|  | 121 | 下鼻甲封闭 |  |
|  | 122 | 先煎 |  |
|  | 123 | 心包注射 |  |
|  | 124 | 心内注射 |  |
|  | 125 | 胸腔冲洗 |  |
|  | 126 | 胸腔注射 |  |
|  | 127 | 胸腔注药 |  |
|  | 128 | 穴位注射 |  |
|  | 129 | 血透用 |  |
|  | 130 | 熏洗 |  |
|  | 131 | 眼外注射 |  |
|  | 132 | 羊膜腔内注射 |  |
|  | 133 | 羊膜腔注药 |  |
|  | 134 | 胰岛素注射 |  |
|  | 135 | 阴道灌洗上药 |  |
|  | 136 | 阴道后穹窿给药 |  |
|  | 137 | 阴道填塞 |  |
|  | 138 | 阴道用 |  |
|  | 139 | 阴茎海绵体内注射 |  |
|  | 140 | 硬膜内注射 |  |
|  | 141 | 硬膜外腔注射 |  |
|  | 142 | 造影用 |  |
|  | 143 | 造瘘管滴入 |  |
|  | 144 | 直肠给药 |  |
|  | 145 | 止血用 |  |
|  | 146 | 蛛网膜下腔注射 |  |
|  | 147 | 椎管内注射 |  |
|  | 148 | 子宫输卵管注药 |  |
|  | 149 | 纵隔冲洗 |  |
|  | 150 | 坐浴 |  |
|  | 151 | 烊化 |  |
|  | 152 | 颞浅动脉旁注射双测 |  |
|  | 153 | 颞浅动脉旁注射右测 |  |
|  | 154 | 颞浅动脉旁注射左测 |  |
|  | 155 | 骶管注射 |  |

## Drug – Default Frequency Mapping

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
|  | bid | 2次/天 |  |
|  | q12h | 1次/12小时 |  |
|  | q2h | 1次/2小时 |  |
|  | q3h | 1次/3小时 |  |
|  | q4h | 1次/4小时 |  |
|  | q6h | 1次/6小时 |  |
|  | q8h | 1次/8小时 |  |
|  | qd | 1次/天 |  |
|  | qd\_16 | 1次/天\_16点 |  |
|  | qd\_18 | 1次/天\_18点 |  |
|  | qd\_20 | 1次/天\_20点 |  |
|  | bid\_2-14 | 2次/天\_2点-14点 |  |
|  | qd\_8 | 1次/天\_8点 |  |
|  | qh | 1次/小时 |  |
|  | qid | 4次/天 |  |
|  | qn | 每晚1次 |  |
|  | qod | 隔日1次 |  |
|  | sos | 临时备用 |  |
|  | st | 临时 |  |
|  | tid | 3次/天 |  |
|  | qw | 1次/周 |  |
|  | bid\_6-16 | 2次/天\_6点-16点 |  |
|  | bid\_8-12 | 2次/天\_8点-12点 |  |
|  | bid\_8-16 | 2次/天\_8点-16点 |  |
|  | bid\_8-20 | 2次/天\_8点-20点 |  |
|  | q1h | 1次/1小时 |  |
|  | prn | 需要时 |  |
|  | q0.5h | 1次/半小时 |  |
|  | bid | 2次/天 |  |
|  | q12h | 1次/12小时 |  |
|  | q2h | 1次/2小时 |  |
|  | q3h | 1次/3小时 |  |
|  | q4h | 1次/4小时 |  |
|  | q6h | 1次/6小时 |  |
|  | q8h | 1次/8小时 |  |
|  | qd | 1次/天 |  |
|  | qd\_16 | 1次/天\_16点 |  |
|  | qd\_18 | 1次/天\_18点 |  |
|  | qd\_20 | 1次/天\_20点 |  |
|  | bid\_2-14 | 2次/天\_2点-14点 |  |
|  | qd\_8 | 1次/天\_8点 |  |
|  | qh | 1次/小时 |  |
|  | qid | 4次/天 |  |
|  | qn | 每晚1次 |  |
|  | qod | 隔日1次 |  |
|  | sos | 临时备用 |  |
|  | st | 临时 |  |
|  | tid | 3次/天 |  |
|  | qw | 1次/周 |  |
|  | bid\_6-16 | 2次/天\_6点-16点 |  |
|  | bid\_8-12 | 2次/天\_8点-12点 |  |
|  | bid\_8-16 | 2次/天\_8点-16点 |  |
|  | bid\_8-20 | 2次/天\_8点-20点 |  |
|  | q1h | 1次/1小时 |  |
|  | prn | 需要时 |  |
|  | q0.5h | 1次/半小时 |  |

## Material – Material Type Mapping

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
|  | 001 | 低值易耗品 |  |
|  | 002 | 一次性材料 |  |
|  | 003 | 骨科植入材料 |  |
|  | 004 | 普通骨科材料 |  |
|  | 005 | 化验材料 |  |
|  | 006 | 化妆品类 |  |
|  | 007 | 口腔材料 |  |
|  | 008 | 血透材料 |  |
|  | 009 | 放射材料 |  |
|  | 010 | 消毒材料 |  |
|  | 011 | 电脑耗材 |  |
|  | 012 | 其他卫生材料 |  |
|  | 013 | 其他植入性材料 |  |
|  | 014 | 维修材料 |  |

## Finance - Cost Classification Mapping

|  |  |  |  |
| --- | --- | --- | --- |
| **SAP** | **Code in HIS** | **Name in HIS** | **Description** |
| Product | 001 | 西药费  Western medicine |  |
| 002 | 中成药费  Proprietary Chinese Medicine |  |
| Dialysis | 027 | 透析费  Dialysis |  |
| Others | 004 | 挂号费  Register |  |
| 006 | 床位费  Ward bed fee |  |
| 007 | 诊查费  Diagnose |  |
| 008 | 检查费  Check |  |
| 009 | 治疗费  Therapy |  |

## Error Code