

The Global Language of Business

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Full Traceability of External Supply Chain and Logistics within the Hospital by UDI Supports

Shuguang Hospital

Affiliated to Shanghai University of Traditional Chinese Medicine



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Outlines

- Introduction of Shuguang Hospital
- Current situation of full traceable management
- The core link of UDI application in Shuguang
- Current situation of precision management of traditional Chinese medicine
- Conclusion





About Shuguang (1)

Cover area 126000m² West 19333 m², East 106666 m² Construction area 136000 m² West 52000 m², East 84000 m²

No. of Beds 1320 West 600 beds, east 720 beds

Total Staff over 2000

National Key TCM Hospital Top 100 hospitals of National Health and Family Planning Commission Model TCM Hospital of State Administration of Traditional Chinese





About Shuguang (2)

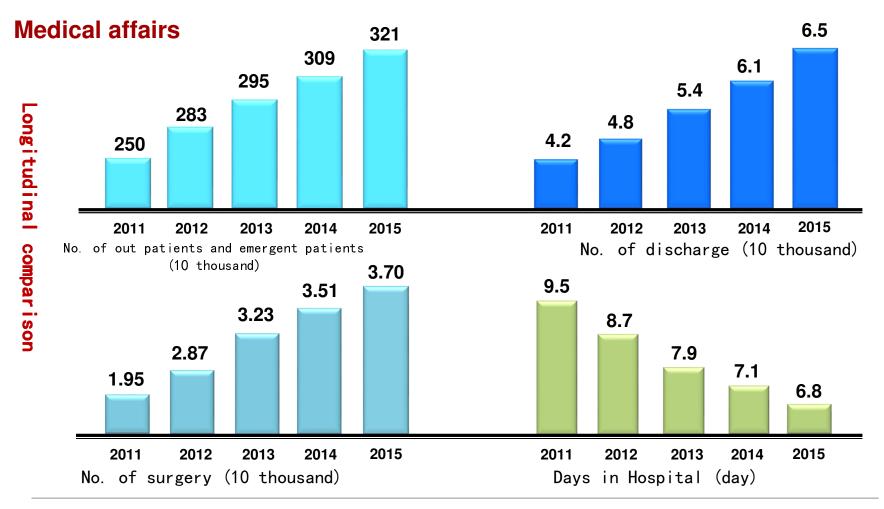


- First TCM hospital pass the ISO 9001 management system certification
- Passed ISO 15189 laboratory verification in Mar 2010
- Passed ISO 17025 laboratory verification in Apr 2010
- Passed FERCAP ethical clearance in Nov 2010
- Involved in the development of international standards such as ISO-TC249 and ICD 11
- National TCM Hospital Medical Quality Monitoring Center (since 1996)
- Shanghai Traditional Chinese Medicine Quality Control Center





About Shuguang (3)







About Shuguang (4)

Differences between Chinese and Western Medical Management

	Medical Difference	Drug Difference	Advantage	Ac
Western Medicine	 Local view Inspection, palpation, percussion, and auscultation Medical device diagnostics Professional techniques and standardized treatment remedy 	 Chemical preparation (pills, capsules, granules) Modern equipments 	Emergent and server patients	
ТСМ	 Concept of holism, the unity between human and nature Observation, questioning, smelling&listening, pulse taking Syndrome differentiation and treatment Typical formula/empirical formula 	 Herbal remedy Food remedy Acupuncture and Tui Na Plaster therapy Psychotherapy 	Patients with incurable and chronic diseases	





Understanding of the application of UDI/GS1 standards in hospital



- Medical precision is the core element of hospital management
- Precise management requires the support of data environment
- Logistics informatization is the basis of precise management
- UDI is conducive to achieving precise management



Application of global UDI traceable system in china





总局关于推动食品药品生产经营者完善追溯体系的意见

食药监科(2016)122号

三、药品、医疗器械生产企业应当按照其生产质量管理规范(GMP)要求对各项活动进行记录。记录应当真实、准确、完整和可追溯。鼓励药品、医疗器械生产企业对产品最小销售单位赋以唯一性标识,以便经营者、消费者识别。植入性医疗器械应当标记生产企业名称或商标、批代码(批号)或系列号,以保证可追溯。

药品、医疗器械经营企业应当按照其经营质量管理规范(GSP)要求对各项活动进行记录。记录应当真实、准确、完整和可追溯,以保证药品、医疗器械购进、养护、出库、运输等环节可追溯,并按规定使用计算机信息管理系统进行有效管理。

药品、医疗器械使用单位应当按照《医疗机构药品监督管理办法(试行)》和《医疗器械使用质量监督管理办法》 要求对药品和医疗器械的购进、验收、储存、使用等情况进行记录。

五、地方各级食品药品监管部门要按照《中华人民共和国食品安全法》《中华人民共和国药品管理法》《医疗器械 监督管理条例》《化妆品卫生监督条例》等有关法律法规的规定,督促行政区域内相关生产经营者认真落实产品追溯主 体责任,并对原料来源记录、生产过程记录、购销记录等追溯体系建设要求的落实情况进行督促检查和总结。对不履行 追溯责任者依法及时查处。

六、鼓励生产经营者运用信息技术建立食品药品追溯体系。鼓励信息技术企业作为第三方,为生产经营者提供产品 追溯专业服务。各级食品药品监管部门不得强制要求食品药品生产经营者接受指定的专业信息技术企业的追溯服务。

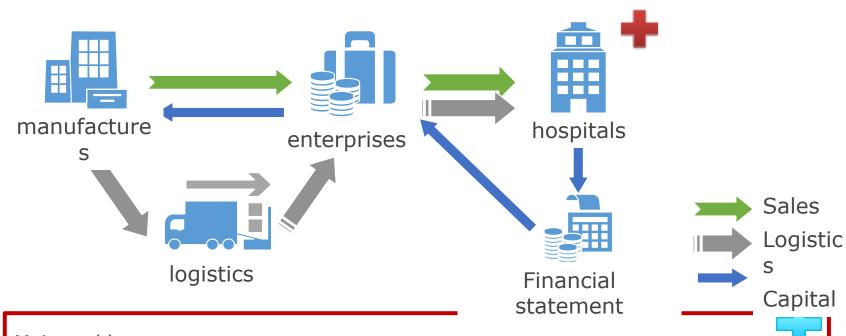
七、鼓励行业协会组织企业搭建追溯信息查询平台,为监管部门提供数据支持,为生产经营者提供数据共享,为公 众提供信息查询。 Encourage pharmaceuticals and medical device manufacturers to give the smallest product sales unit UDI, so that operators and consumers could identify the products. Implantable medical devices should be marked with the manufacturer's name or trademark, batch code or serial number to ensure traceability.

Encourage industry associations to organize enterprises to build a traceable information query platform to provide data support for the monitoring secretors, information sharing for producers and information query for the publicities.





Current situation of full traceability management (1)



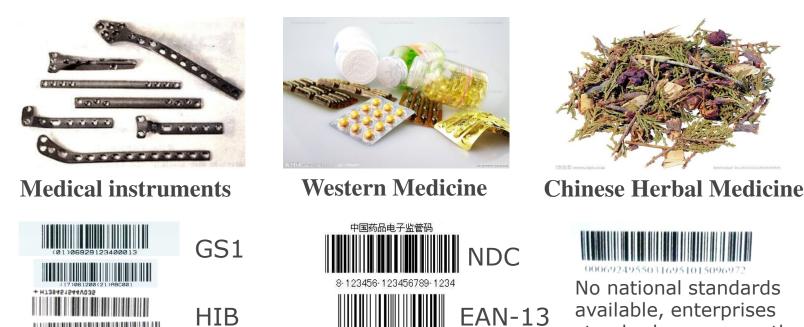
Main problems:

- UDI=DI+PI; procurement DI, delivery DI, the hospitals requires DI+PI, the hospital may collecting PI upon recipient;
- Chinese drug electronic monitoring code haven't solve the problem of hospital PI collection for 10 years, the hospital is still unable to trace the source precisely.



Current situation of full traceability management (2)





available, enterprises standards are currently adopted.

Main problems:

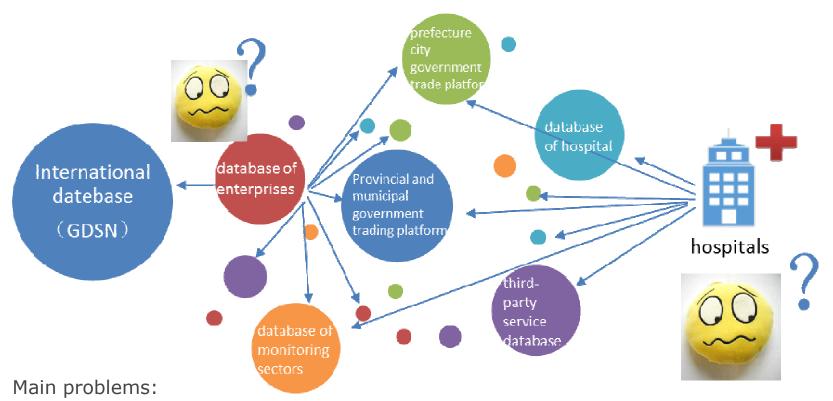
C

- The instrument UDI is not fully covered, China only covers category III implants and part of the category I and category II
- Western medicine and Chinese medicine coding standard is not uniformed, no • automatic identification of the batch number information





Current situation of full traceability management (3)



- Repeated construction of the database is astonishingly costly. The enterprises and hospitals are struggling to cope.
- The database can not be interconnected, the information island phenomenon is serious.



Current situation of full traceability management (4)





Main achievements:

- implantable medical devices used in Shuguang are able to meet the UDI management requirements.
- Part of the category I and category II products are still without UDI, we suggest the enterprises to use the same GS1 standards.



Core link of UDI application in hospital (1)



Introduction of core link: Purchase and storage security management

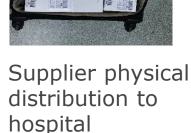
福建协和医院被罚千万的幕后故事 2016-09-14 福建消费网





Due to poor acceptance of the use of undocumented products, the hospital was impose high penalties by the regulatory authorities

Main achievements



医疗器械生产企业许可证 中华人位尤和时 国府器械经济全量许可证 -----医疗器械UDI 中心数据库 生产 灭菌 经营 许可 产品 工商 有效 ìÆ 许可 注册 执照 期 证 证

> Acceptance and scanning by Dept. of Medical Device

The hospital scan the UDI code on the package to collect the time information of PI and domestic approval information of DI by using the UDI database provided by third-party.



Shanghai database was established in 2006. Now it owns 570,000 products DI data from 5000 medical device enterprises. The Global Language of Business

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Core link of UDI application in hospital (2)

Introduction of core link: Postoperative UDI – Associated with patients



Main achievements:

- Synchronizing the medical devices and patients' records by scanning the UDI in operation room
- UDI scanning has been used in the departments of orthopedics, ophthalmology, general surgery, brain surgery, cardiology, endoscopy, interventional medicine and cardiothoracic surgery

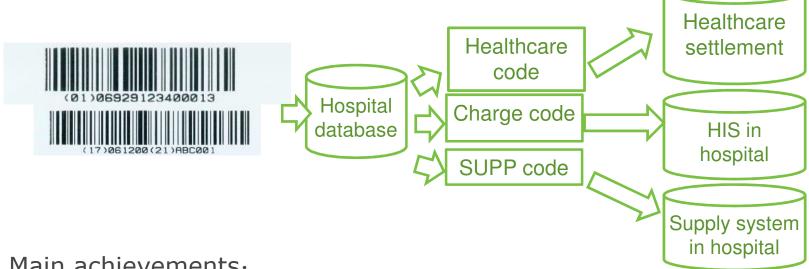


The application of UDI will be expanded with the wider coverage of its products The Global Language of Business © GS1 2016

Core link of UDI application in hospital (3)



Introduction of core link: the application of UDI realized information sharing throughout the hospital



Main achievements.

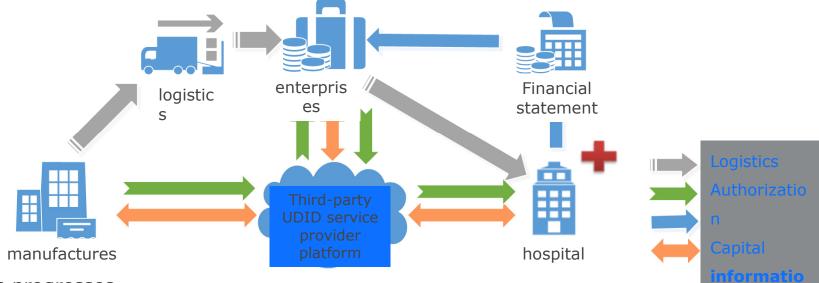
Connecting the information between the usage of medical devices and other records with the application of UDI in operation



Core link of UDI application in hospital (4)



Introduction of core line: single node entry enables all parties to share the information traceability pattern



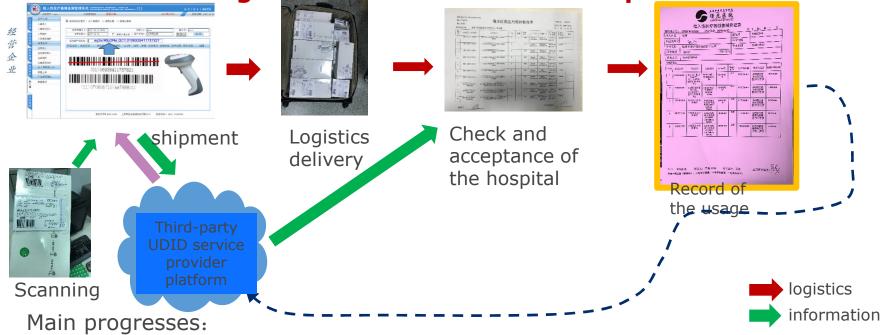
Main progresses:

- Dramatically reduce data interaction with influential third-party platform (t contains more than 200 hospitals, over 4000 suppliers, 570000 products and 1200 manufactures)
- The interaction between hospitals and service providers in the supply chain greatly simplifies the construction of information system in the hospital, and facilitates safety
 - management, patients tracing management and settlement management by
 - information sharing.

Core link of UDI application in hospital (5)



Introduction of core link: realize the consistency of information tracing inside and outside the hospital



- Through the third-party platform service providers, suppliers and hospitals realize the closed-loop management
- Realize the two-way check goods, data sharing reduces the data entry



Current situation of precise management of TCM (1)





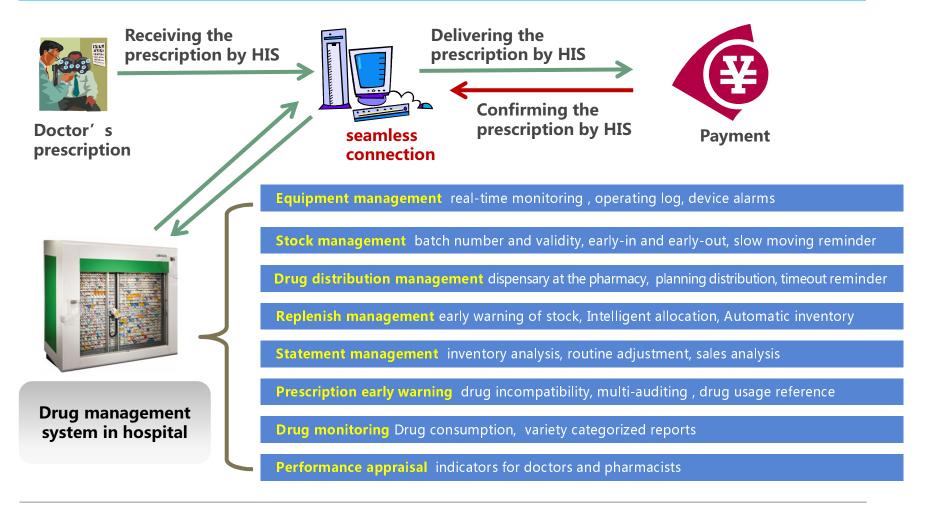
Main progress:

- automatic machines are used to deliver the TCM products with standardized package
- automatic identification tools are used for the TCM products without standardized package to avoid mistakes





Current situation of precise management of TCM (2)







Current situation of precise management of TCM (3)

	Goal	Current situation	Compariso n
Capability of prescription	500/hour, 4000/day (in 8hours)	Maximum 2000/day	2 times
No. of drug delivery	4800 boxes/hour, 38400boxes/day(in 8hours)	Maximum 294 prescriptions/hour, delivering 1526 boxes of drugs	3 times
No. of drug kinds	2 Consis-D3 Automatic dispensing machine with the capacity of 1536 kinds	347 kinds	4.3 times
No. of drug stock	2 Consis-D3 Automatic dispensing machine with the capacity of 23040 boxes	9575 boxes	2.4 times
Processing speed	30-45s/prescription	8-10s/prescription	4 times
Time for taking drugs	5-10 mins	30 s	5 times

Main progress:

 Automated precision services greatly improving the service capability, increasing processing speed, and reducing mistakes while working





Current situation of precise management of TCM (4)



- Automatic precision services dramatically increase service speed, but non-standard barcodes and untraceable information may fail the tracing of patients' usage.
- The empty of standard bar code in TCM making the traceability can only be carried out between hospitals and enterprises, can not form a full traceability chain.



Perception: NOT everyone can get coding!



Hospital precision management can not work alone without the standardization of logistics information. Information standardization should be proceed from a global perspective. Thanks to GS1's efforts and contributions in this area, thanks to the experts in this field to contribute to the long-term unremitting efforts!





Thank you!



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