The Trend of Future Development of China Health Information

Ministry of Health of China

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March 2015

The overall goal of building a China's health information

- According to the national long-term development strategy and the action of modern service industry.
- **e-service → e-health**

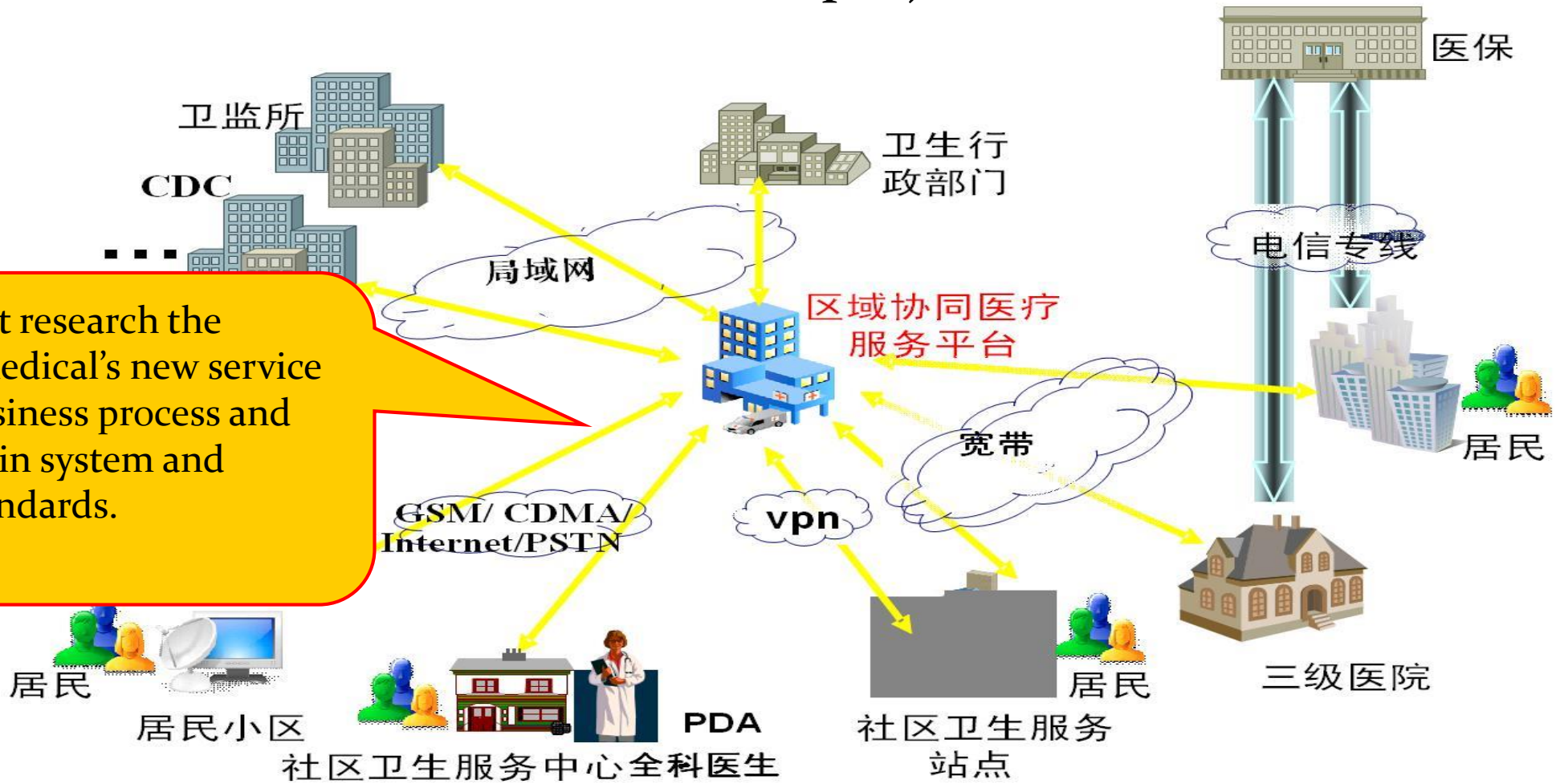
  - ✓ Gives full play to the advantages of information network.
  - ✓ Optimal allocation and sharing resources of high grade medical treatment.
  - ✓ To achieve the medical information system which combines the personal health records and the clinical information in the cities of China
  - ✓ Construct the management system of public health and the national health information

- Combined with the task of a new medical reform program, the ministry of health proposes the establishment of:

Regional cooperative medical treatment demonstration project

To achieve the regional cooperative medical treatment demonstration project

The project research the regional medical's new service model, business process and supply chain system and related standards.



The main task

The establishment of regional collaborative medical sharing service and the evaluation system of tracking and supervision.

- The medical cost
- The quality of medical treatment（prescription standardization, rationality, cure rate, improvement rate, rationality of medicine etc.
- Medical service satisfaction
- Evaluation of the above mentioned aspects. Enhance and improve the medical service level

The main task

Provide real-time dynamic medical service by using mobile technology and telemedicine.

- Realize online booking for patient, registered by mobile phone and online medical consultation.
- Give guidance and counseling of medical care to the object and rational triage patients.
- Extend the medical service supply chain, rational using and selecting medical service resources.

Optimization and re-allocation of medical resources

Drug safety supervision information engineering

The goal of the construction:

- Information sharing and business collaboration of the relevant government departments.
- Further strengthening development, production, distribution and use of drug and medical device during the whole process supervision.
- A transparent supervision during the process of drug circulation made to effectively improve the level of safety supervision in the total life cycle of the drug. Enhance the safety supervision of drugs (including medical equipment)

Food safety supervision Information engineering

The goal of the construction:

- A close collaboration and information sharing of food production, circulation, and consumption processes.

- Using network technology, tracing technology, anti-counterfeiting technology, cloud computing technology etc.:

- Build a supervised information system which support the evaluation on food producers, operators and catering service provider.

- Build an information sharing platform of food safety.

The Ministry of Health's "National health information development planning" Hospital informatization construction：

Grade three hospital：

Create conditions based on the comprehensive application of management information systems. Focus on strengthening the building and the application of clinical information system, such as digital medical image and the workstation for doctors and nurses.

Grade two hospital：

Implement the network management of hospital information. Establish clinical information system. Accelerate the construction of hospitals and health clinics in streets and townships.

Rural area：

Gradually extend the network to medical institutions in townships In some rural areas.

At or above the county level hospital：19000
The number of hospitals: 90000

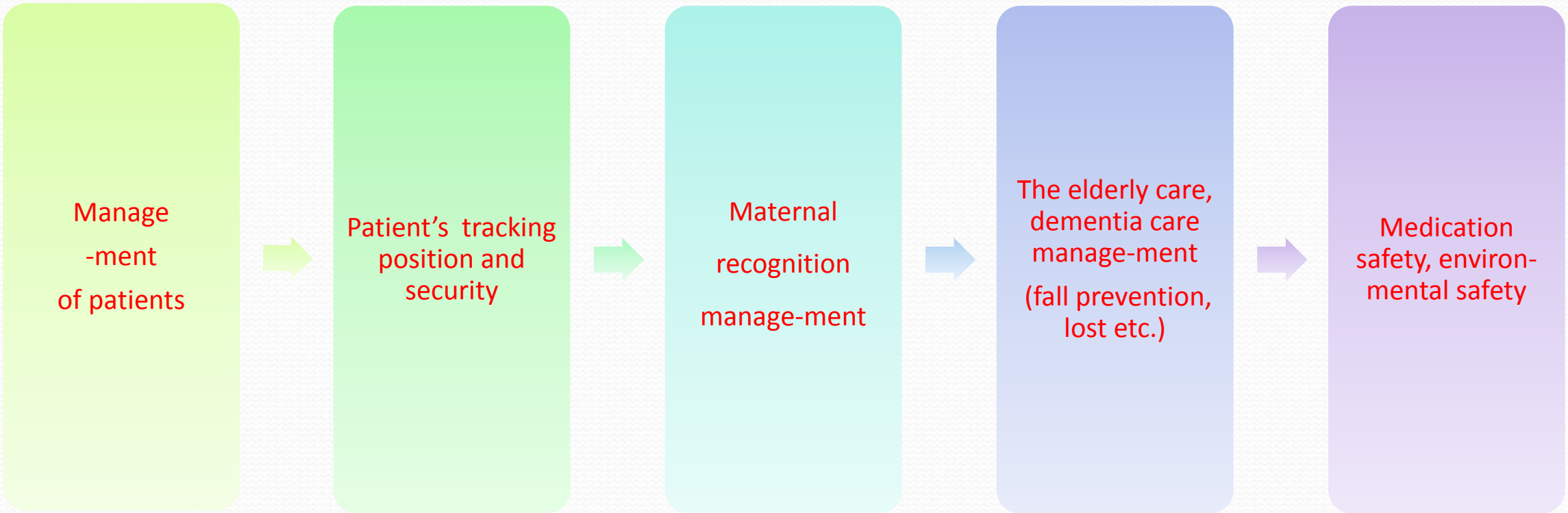
The test of digital demonstration hospitals of the ministry of health.

Medical information technology and modern information technology will overall innovate the future health concept and health care system.

- Mobile communication, mobile phone service (bank, electric, double 11, traffic, navigation)
  10 years of development

- Proposed the mobile medical and mobile health technology about 8 years ago.
  The rapid development: registration, querying for inspection and examination results, medication reminders, rehabilitation guidance.

The application of mobile medical in management field of patients



Application of mobile medical in the medical field

Mobile intelligent medical services - to improve medical security

- Using the internet of things and the RFID which patients wear, we can get real-time information query and medical safety control.
- Surgical instruments, consumable electronic tag tracking system supplies

real-time monitoring on patients before and after operation equipment,

and fully guarantee the operation safety.

- Through the wireless network access, we can see patient records, doctor's advice and all kinds of inspection, testing and nursing information and the realization of wireless intelligent rounds etc..
- The hospital information system becomes wireless and intelligent.

The mobile medical promotes the innovation of medical treatment mode

Patient self testing at home

- Guiding by community health center
- Remote diagnosis and consultation by doctor

The remote area

Networking, wireless network

- Portable equipment for patient monitoring
- Remote diagnosis by doctor
  (for example: mobile phone stethoscope, mobile ultrasound equipment can be connected on the mobile phone)

"The State Council opinions on promoting the development of health service industry"

Objective: by 2020

- The basic establishment of the health service system will cover the whole life cycle.
- Create a number of health service product groups which have well-known brands and the virtuous cycle.
- The total size of the health service industry reaches 8000000 million RMB. It will become important strength of promoting economic and social sustainable development.

China Mobile medical service

- Demand potential
- Good broad market
- Reduce the medical burden of the people
- Enhance the efficiency of medical service
- Promote the safety and efficiency of medical service

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Thanks ！