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**Basic functions specification of telemedicine information
system**

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Drafting organizations of this standard. Statistical Information Center of National Health and Family Planning Commission, First Affiliated Hospital of Zhejiang University, Zhejiang Health Information Center, Union Hospital of Tongji Medical College of Huazhong University of Science and Technology, First Affiliated Hospital of Zhengzhou University, Xinjiang Uygur Autonomous Region People's Hospital, Guizhou Province Information Center of the Health and Family Planning Commission, Zhejiang Digital Medical and Health Technology Research Institute.

1 Scope

This standard specifies the functional composition, functional requirements and overall system requirements of the telemedicine information system.

This standard is applicable to the planning, design, development, deployment and application of telemedicine information systems in various medical institutions at all levels.

In accordance with this specification, the developer is required to make construction.

2 Terms and definitions

The following terms and definitions apply to this document.

Telemedicine information system Adopt modern communication, electronic and multimedia computer technology, relying on regional information platforms or information networks between multiple medical institutions, Realize the remote collection, transmission, processing, storage and query of medical information, and implement consultation,, monitoring, ward rounds and assistance for patients in different places Information systems for diagnosis, inspection, treatment, surgery, teaching, information services and other special medical One-to-one, one-to-many, and many-to-one telemedicine services.

Remote consultation

Medical institutions use communication technology, computer and network technology, and use offline or online interactive methods to carry out remote guidance inspections, Assist in diagnosis, guide treatment and other medical activities.

Remote electrocardiograph diagnose the inviter submits an application to the invited party and provides the patient's clinical data and electrocardiogram data, and the invited party issues diagnostic opinions and reports. package Remote diagnosis with Holter monitoring data.

Remote medical image diagnose the inviter submits an application to the invited party and provides patient clinical data and imaging data, including radiological imaging data, B-ultrasound imaging data and and video data, the invited party will issue diagnostic opinions and reports.

Remote intense care

The inviter submits an application to the invited party and provides clinical data of critically ill patients, including real-time online monitoring information, radiological image data, B-ultrasound imaging data and video data, etc., the invited party will issue diagnostic opinions and treatment guidance.

Remote pathology diagnose the inviter submits an application to the invited party and provides the patient's clinical and pathological data, and the invited party issues diagnostic opinions and reports.

Remote surgery demonstration Through the application of remote consultation technology and video technology, the whole process of clinical diagnosis or operation demonstration screen images at the operation site is carried out in real time Recording and remote transmission, so that it can be used for remote surgery teaching.

Distance medical education Through the telemedicine information system, teaching experts

provide basic-level doctors with business training and teaching through real-time audio, video and courseware.

And technical support.

Remote two-way referral Medical staff realize the process of transfer between medical institutions at all levels according to the needs of patients for treatment. The inviting party does not have the patient's medical condition when the technology and equipment needed for treatment are required, the invited party can submit an application for transfer to the invited party through the telemedicine information system;

As the treatment progresses, it is believed that there is no need to continue treatment on the invited party, and the patient can be transferred to the primary medical institution for continued treatment.

4 System function composition

The telemedicine information system functions include basic business functions, extended business functions and system management functions. The basic business functions include 6 types of remote consultation, remote appointment, remote two-way referral, remote image diagnosis, remote ECG diagnosis, and remote medical education; expand business the functions include remote intensive care, remote surgery teaching, remote pathological diagnosis, etc. 3 categories, hospitals with conditions can choose some or all of them Functions; system management functions include authority management, medical and health institution data management, department data management, expert data management, and medical record data 9 categories including collection and storage, follow-up management, financial management, statistical analysis, functional collaboration and data interaction.

5.1.1.1 Overview

Applicable to the invitation to apply for remote consultation with the invited party, and the invited party accepts the application, conducts remote consultation and issues diagnosis opinions and reports Cheng.

5.1.1.2 Basic functions

Basic functions include.

--Consultation appointment. filling in the consultation application form, submission and modification of consultation application, query of expert database information, organization and transmission of electronic data, Inquiries about consultation applications, etc.;

--Consultation management. consultation process management, medical record management, consultation report browsing, follow-up management, consultation service

evaluation, etc.;

--Consultation service. medical record browsing, audio and video interactive medical condition discussion, whiteboard writing and interactive medical record information, consultation report compilation and release and modification, consultation report template management, etc.

5.1.2.1 Overview

It is applicable to the process in which the inviting party completes appointment registration, appointment inspection and other operations, and the invite party completes the relevant application acceptance and information feedback process.

5.1.2.2 Basic functions

Basic functions include.

- Appointment arrangement. fill in appointment application form, schedule query and number source selection, appointment application submission and modification, patient medical record information Submission, viewing and printing of appointment forms, etc.;
- Appointment management. appointment process management, appointment process reminder, appointment record query, medical record management, etc.

5.1.3.1 Overview

It is applicable to the management process of transfer-in and transfer-out patients by medical and health service institutions at all levels.

5.1.3.2 Basic functions

Basic functions include.

- Referral application. In response to referral requests for general medical treatment, other service components or system modules, submit a referral application to the designated referral institution please. It has the functions of filling in referral application form, submission and modification of referral application, inquiry of receiving institution, and inquiry of referral application;
- Referral management. Divided into forwarding management and receiving management, it supports the inviting party to cancel forwarding, print the referral form, and re-transfer out. Support the invited party to accept or refuse the operation. With referral process management, medical record management, referral process reminder, transfer Diagnosis record query and other functions;
- Patient information feedback. the patient's discharge information can be automatically