

互联网信息共享推动健康扶贫发展

Information Sharing on the Internet Promotes Healthy Poverty Alleviation

——以“互联网+健康扶贫”的汉中模式为例

——Take the Hanzhong model of "Internet + Health Alleviation" as an example

汉中市卫生健康委员会 庞文学

Healthy Committee of Hanzhong Pang Wenxue

我来自“丝路源点、汉人老家”陕西省汉中市。我将从四个方面来分享我市“互联网信息共享推动健康扶贫发展”的一些做法。

I come from Hanzhong, Shaanxi Province, the source point of the silk road and the hometown of the Han people. I will share some of our city's practices on “Information Sharing on the Internet Promotes Healthy Poverty Alleviation” from four aspects.





一、精准识别 找准因病致贫对象

1. Precise identification, find out the target population of poverty due to disease

创新推行 “四步筛查” （制定标准、体检甄别、比对核查、科学分类）工作法，找准因病致贫对象。

We innovated and implemented the “four-step screening” (formulation of standards, physical examination, comparison and verification, scientific classification) working method to identify the target of poverty caused by illness.

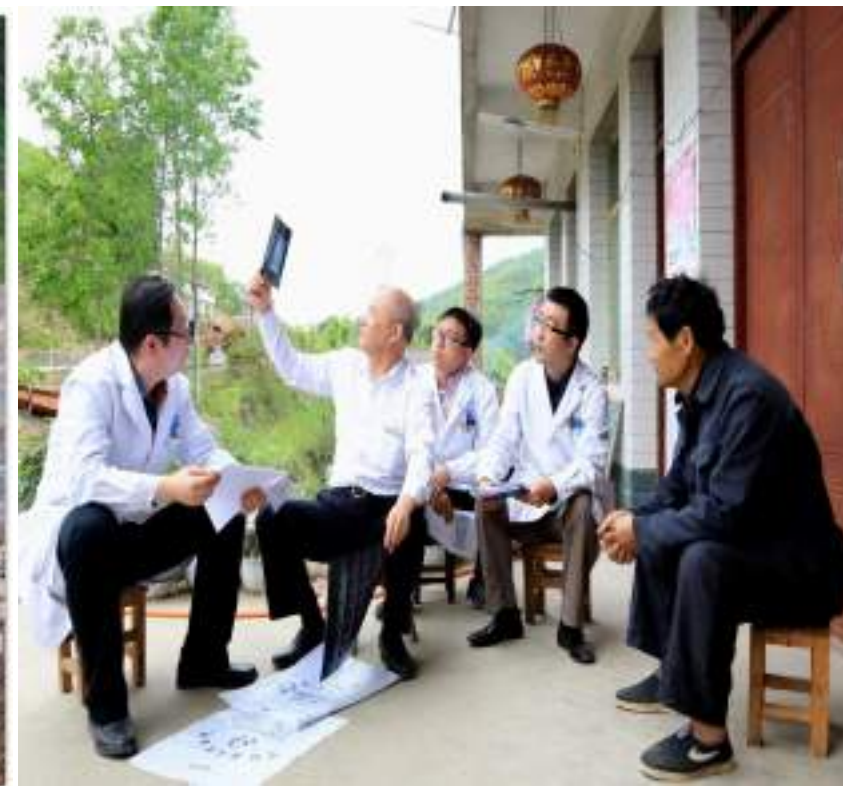
一、精准识别，找准因病致贫对象

Precise identification, find out the target population of poverty due to disease



“四步筛查” 找准因病致贫对象。

Adopt the “four-step screening” method to identify the target population of poverty caused by illness.

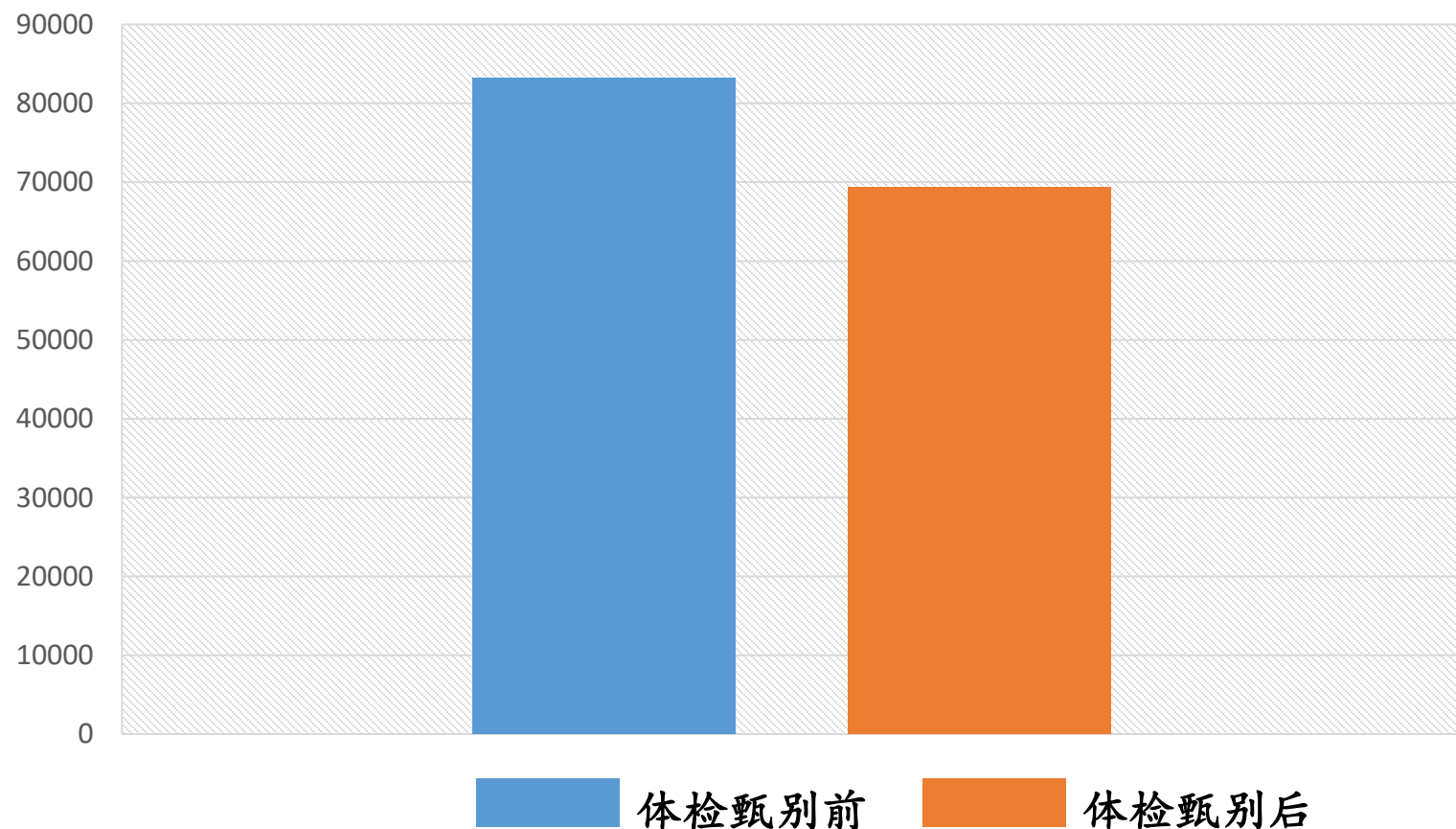


一、精准识别，找准因病致贫对象

Precise identification, find out the target population of poverty due to disease



“四步筛查”成效 Effect of “four-step screening”



2017年经过“四步筛查”，全市最终确定因病致贫69360人，比体检甄别前下降20.4%。

After the “four-step screening” in 2017, 69,360 people in the city were finally identified as poor due to illness, which was 20.4% lower than that before physical examination.



二、精准施治

突出救治大病管好慢病

2.Precise treatment, highlighting the treatment of serious illnesses and management of slow disease

在精准识别的基础上，对大病集中救治、慢病签约服务管理。

On the basis of accurate identification, centralized treatment of serious diseases and contracted service management of chronic diseases are carried out.

二、精准施治，突出救治大病管好慢病

Precise treatment, highlighting the treatment of serious illnesses and management of slow disease



(一) 大病救治 Treatment of serious diseases

集中救治大病5296人，救治率98%。

We focused on treating 5,296 seriously ill people, with a cure rate of 98%.



二、精准施治，突出救治大病管好慢病

Precise treatment, highlighting the treatment of serious illnesses and management of slow disease



(二) 慢病管理 家庭医生签约服务

Management of chronic diseases

Family doctor contract service



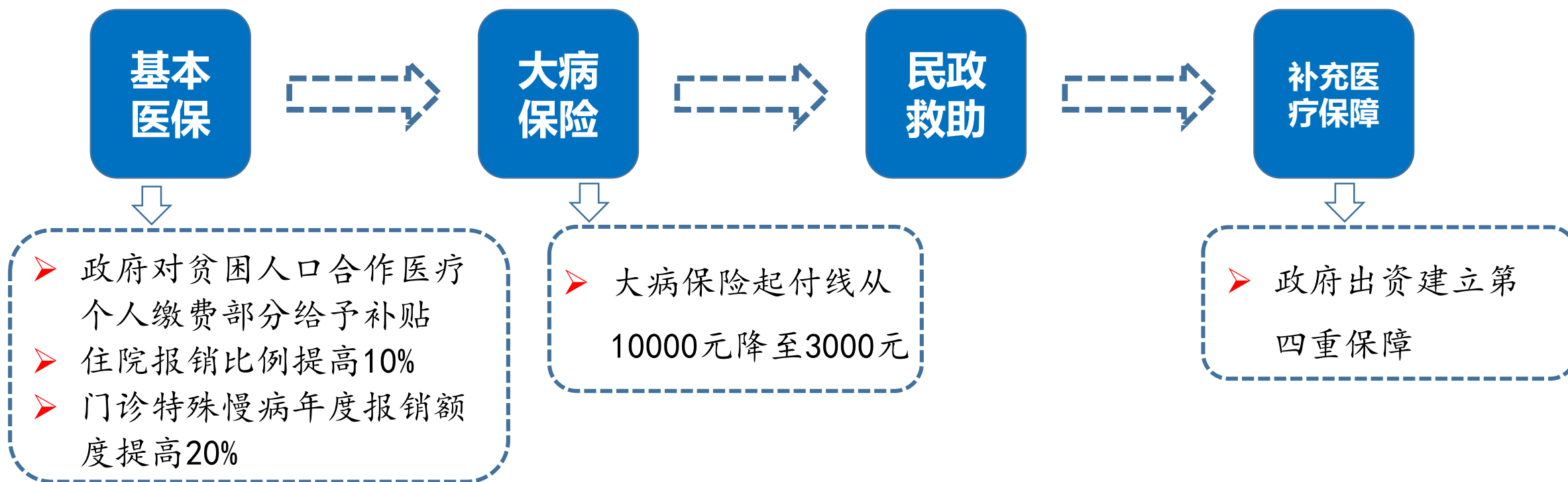
二、精准施治，突出救治大病管好慢病

Precise treatment, highlighting the treatment of serious illnesses and management of slow disease



(三) 建立贫困人口“四重保障”机制

Establishing the “Four Guarantees” Mechanism for the Poor Population



贫困人口住院一站式结算，一单式报销，稳定在80%至90%之间

To ensure that the reimbursement ratio for hospitalization compliance expenses of the poor is stable between 80% and 90%.

2012年，牟文贵摔伤致膝盖粉碎性骨折，因未及时治疗，导致膝关节异常膨大。2017年7月确诊为右股骨远端骨巨细胞瘤。8月在镇巴县人民医院成功实施右下肢截肢技术，住院费8105.15元，其中报销7432.61元，自费672.54元。

In 2012, Wengui Mou suffered knee comminuted fracture caused by his fall, which was not treated in time due to economic difficulties, resulting in abnormal enlargement of knee joint. He was diagnosed as a giant cell tumor of bone in the distal part of right femur in July 2017. In August, the right lower limb amputation was successfully performed in Zhenba County People's Hospital. The total hospitalization fee was 8105.15 Yuan, of which 7432.61 Yuan was reimbursed, and self-funded part is 672.54 Yuan.



签约医生经常上门对牟文贵进行健康指导和心理开导，并帮助联系县残联和省红十字会，为牟文贵量身定做假肢协助康复训练。

The contracted doctors often come to visit for health guidance and psychological counseling, he also helped to contact the County Disabled Persons' Federation and the Provincial Red Cross to tailor the prosthetic-assisted rehabilitation training.



2018年底，牟文贵在集中安置房内迎娶了新娘曹晓霞，签约医生帮他筹办婚礼。目前，牟文贵在小区开了商店，妻子兼职做淘宝客服，月收入2000元左右，并享受低保政策，日子幸福美满。

At the end of 2018, Wengui Mou married Xiaoxia Cao in the centralized resettlement room and the contracted doctor helped him preparing for his wedding. At present, Wengui Mou has opened a shop in the community and his wife finds a part-time job as Taobao customer service. Their monthly income is about 2,000 Yuan. Now he enjoys the policy of minimum living allowance and a happy life.





三、精准定位

补齐短板提升基层服务能力

3.Precise positioning, filling short parts and improving the ability of grassroots service

定位“市级医院能治疗疑难杂症、县级医院能治疗大病、镇卫生院能治疗常见病、村卫生室能看小病”的目标。

The target of “municipal hospitals can treat incurable diseases; county hospitals can treat major diseases, town hospitals can treat common diseases and village clinics can treat minor diseases” is defined.

三、精准定位，补齐短板提升基层服务能力

Precise positioning, filling short parts and improving the ability of grassroots service



(一) 推行全托型的医疗共同体，提升县级医院能力

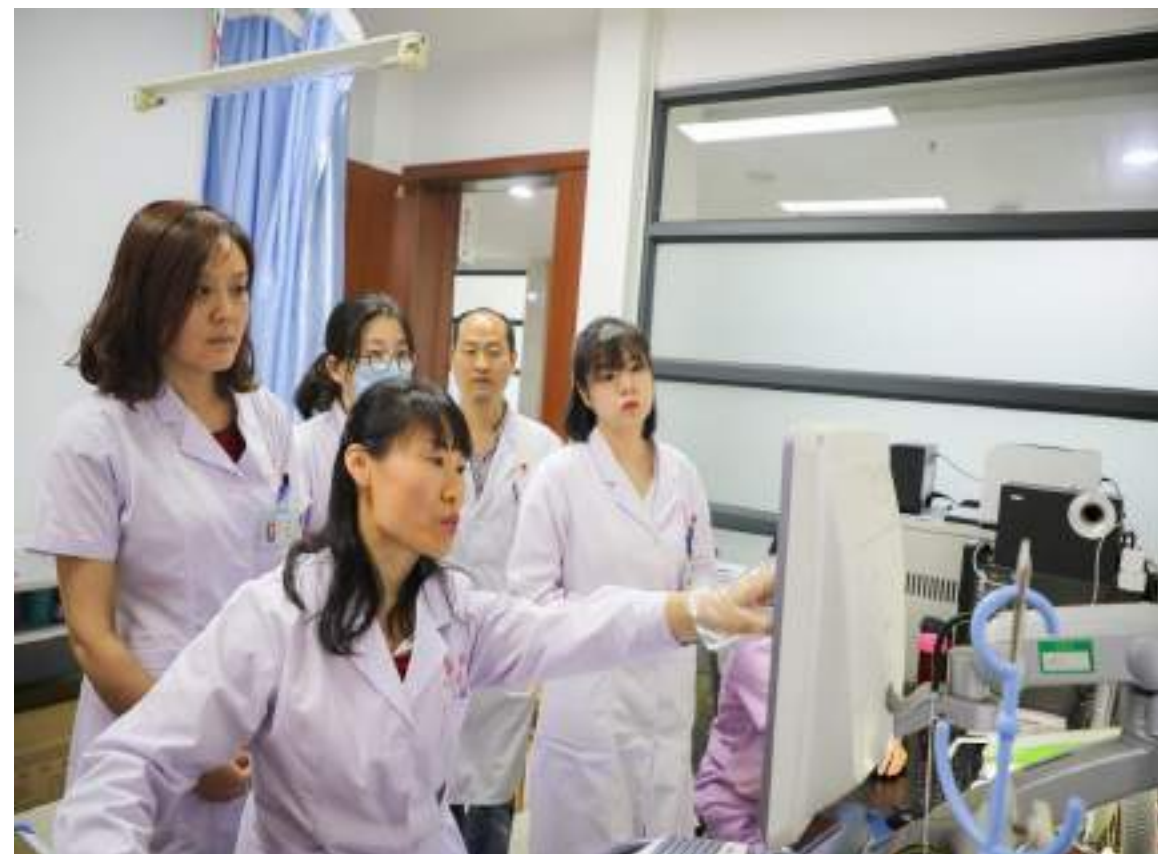
The implementation of a full-care medical community to enhance the capacity of county hospitals.

市内2所三级医院分别对两个能力较弱的山区县实行全面托管。

Two tertiary hospitals in the city have overall trusteeship of two mountain area county hospitals with weak abilities respectively.



三二〇一医院托管佛坪县医院



三、精准定位，补齐短板提升基层服务能力

Precise positioning, filling short parts and improving the ability of grassroots service



（二）推行利益捆绑型县域医共体，提升镇卫生院能力

Promote the benefit-binding county medical community and enhance the capacity of town hospitals.



三、精准定位，补齐短板提升基层服务能力

Precise positioning, filling short parts and improving the ability of grassroots service



（三）推进村卫生室标准化建设，提升村卫生室能力

Promote the standardization construction of village clinics and enhance the capacity of village clinics.

每个贫困村建有“60平方米、四室分设、有资质村医”的集体产权卫生室。

Each impoverished village has a clinic which owned collectively with “60 square meters, 4 separate rooms and qualified village doctors”.



三、精准定位，补齐短板提升基层服务能力

Precise positioning, filling short parts and improving the ability of grassroots service



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Promote the standardization construction of village clinics and enhance the capacity of village clinics.



针对贫困地区人难招、人难留，制定“地方粮票”招录本地籍医学专业大专生，解决村医不足的问题，陆续补充村医439人。

In view of the difficulty in recruiting and retaining people in poverty-stricken areas, “local food stamps” have been issued to recruit local medical college students, so as to solve the problem of insufficient village medical doctors, and to replenish 439 village medical doctors in succession.

三、精准定位，补齐短板提升基层服务能力

Precise positioning, filling short parts and improving the ability of grassroots service



（四）建立健康扶贫长效机制，提升全民健康素养

Establishing a long-term mechanism of health poverty alleviation and improving the health literacy of the whole people.

1、2018年3月成立健康管理联合体

围绕“健康中国”和“乡村振兴”
战略，推进健康汉中建设

Combine the strategy of “Healthy China” and “Villages Revitalization”, we are aiming to implement “Healthy Hanzhong” construction and health city construction to enhancing people's health literacy in an all-round way.



三、精准定位，补齐短板提升基层服务能力

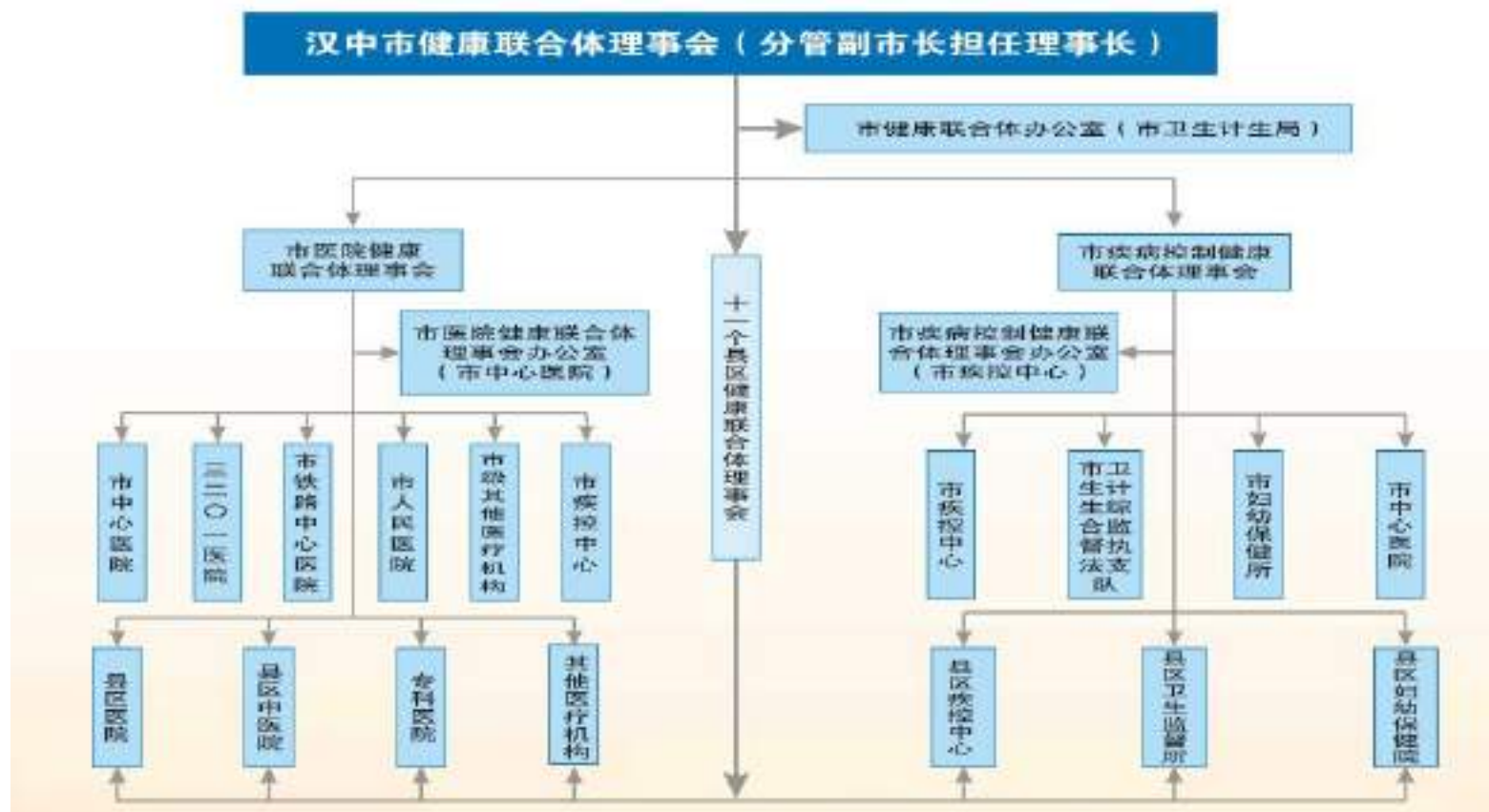
Precise positioning, filling short parts and improving the ability of grassroots service



（四）建立健康扶贫长效机制，提升全民健康素养

Establishing a long-term mechanism of health poverty alleviation and improving the health literacy of the whole people.

汉中市健康联合体组织架构图



三、精准定位，补齐短板提升基层服务能力

Precise positioning, filling short parts and improving the ability of grassroots service



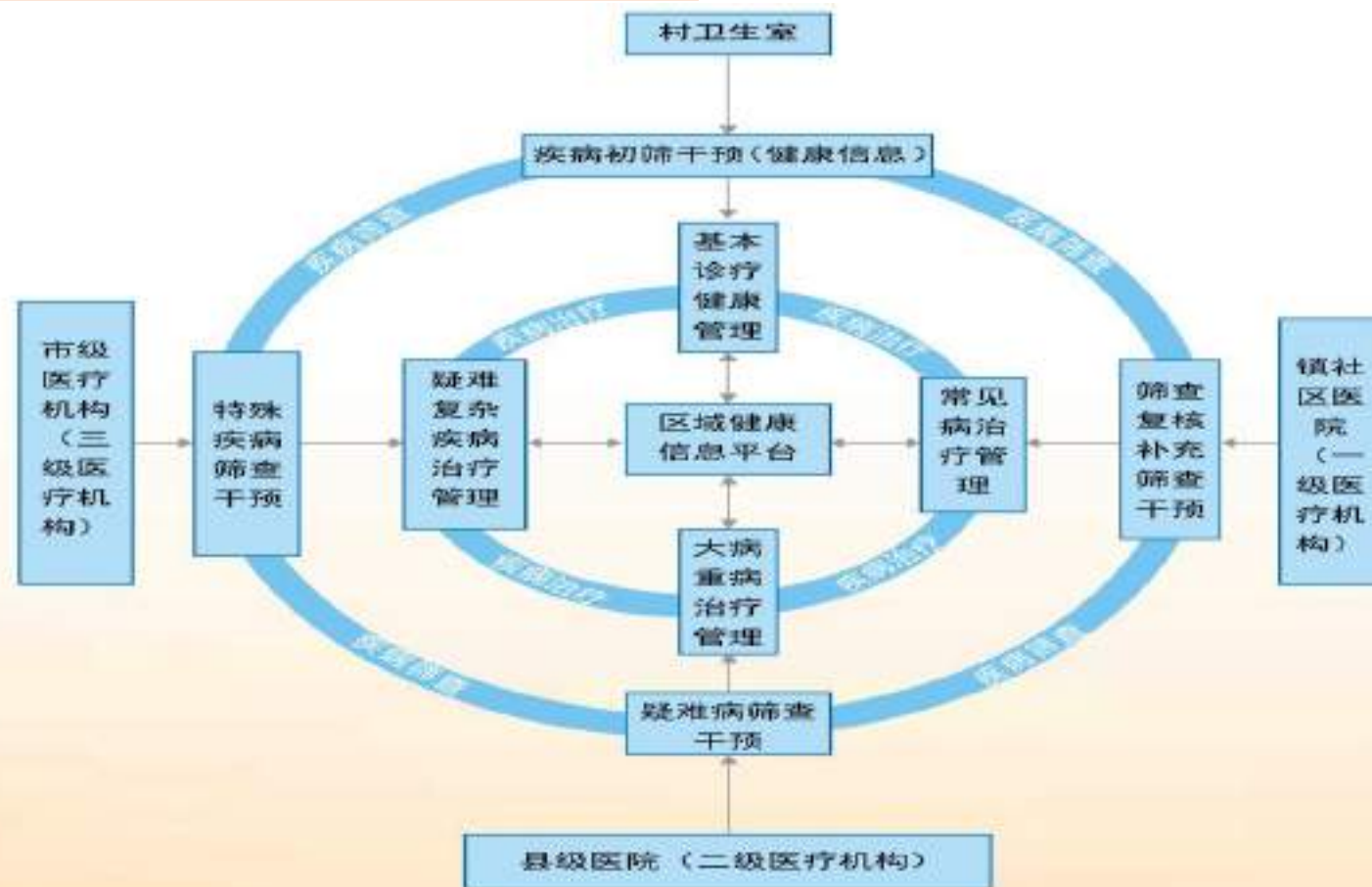
（四）建立健康扶贫长效机制，提升全民健康素养

Establishing a long-term mechanism of health poverty alleviation and improving the health literacy of the whole people.

开展健康信息采集、筛查、评估、分类、干预、诊治、管理，逐步建立“防大病、管慢病、促健康”为主的健康管理模式。

We will carry out health information collection, screening, assessment, classification, intervention, diagnosis and treatment, management, and gradually establish a health management model focusing on preventing serious diseases, managing slow diseases and promotion of health.

健康联合体运行架构图



三、精准定位，补齐短板提升基层服务能力

Precise positioning, filling short parts and improving the ability of grassroots service



（四）建立健康扶贫长效机制，提升全民健康素养

2、八大“健康细胞”示范建设

Demonstration Construction of Eight types of “Healthy Cells”

以“健康细胞”示范建设为抓手，营造健康环境，优化健康服务，培育健康人群，提升全民健康素养。

a.健康社区

b.健康村庄

c.健康学校

d.健康医院

e.健康企业

f.健康机关

g.健康家庭

h.健康军营



健康小屋



四、精准发力

互联网+助推健康扶贫

4.Precise force, Internet +
boost health poverty alleviation

四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

建设“一网、一轴、四纵”为主的“互联网+健康扶贫”应用系统。

We will build an Internet + health poverty alleviation application system dominated by “one network, one axis and four longitudes”.

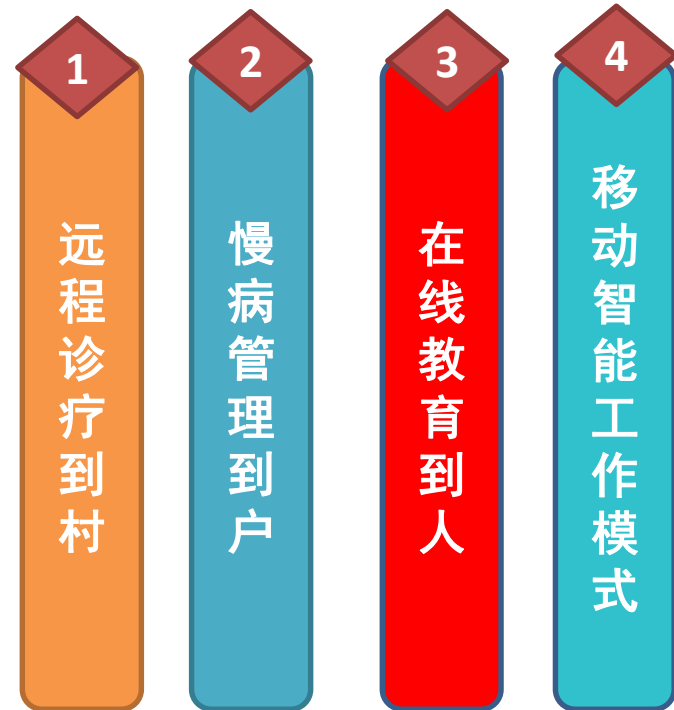
一网： 光纤网络到村卫生室
4G网络覆盖到户



一轴： 以全国健康扶贫
动态管理系统为轴心



四纵





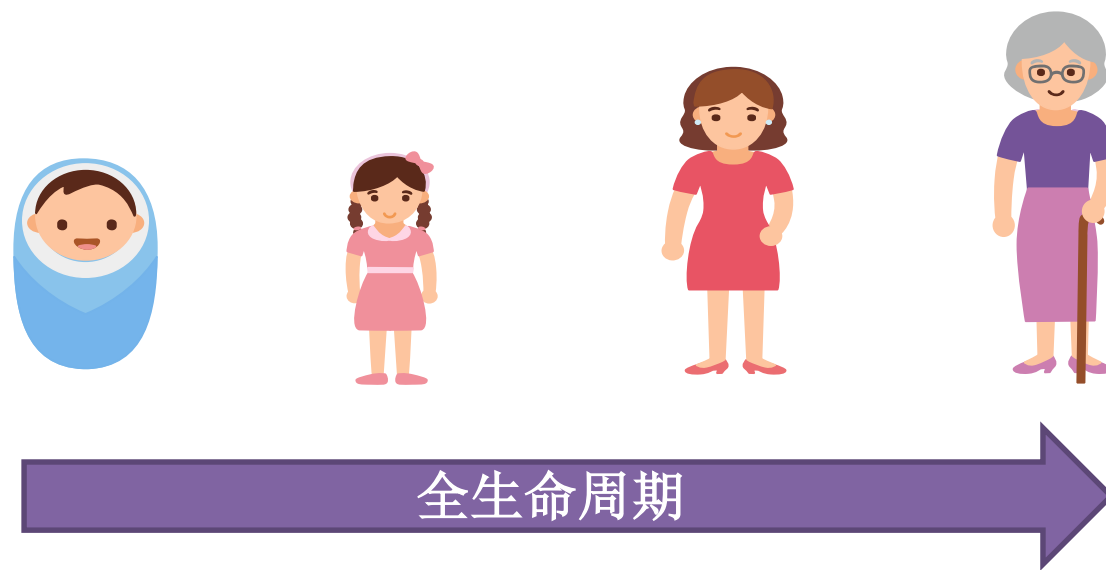
四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation



打破了医疗卫生机构之间“信息烟囱”

Break down the “information chimney”
between medical and health institutions.



构建全人群、全生命周期的健康管理体系。

Build a health management system for the whole
population and the whole life cycle.



四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation



为精准医疗、地方病防治、健康管理、返贫预警、养老养生、医保核算、健康产业发展、政府决策等提供科学支撑。

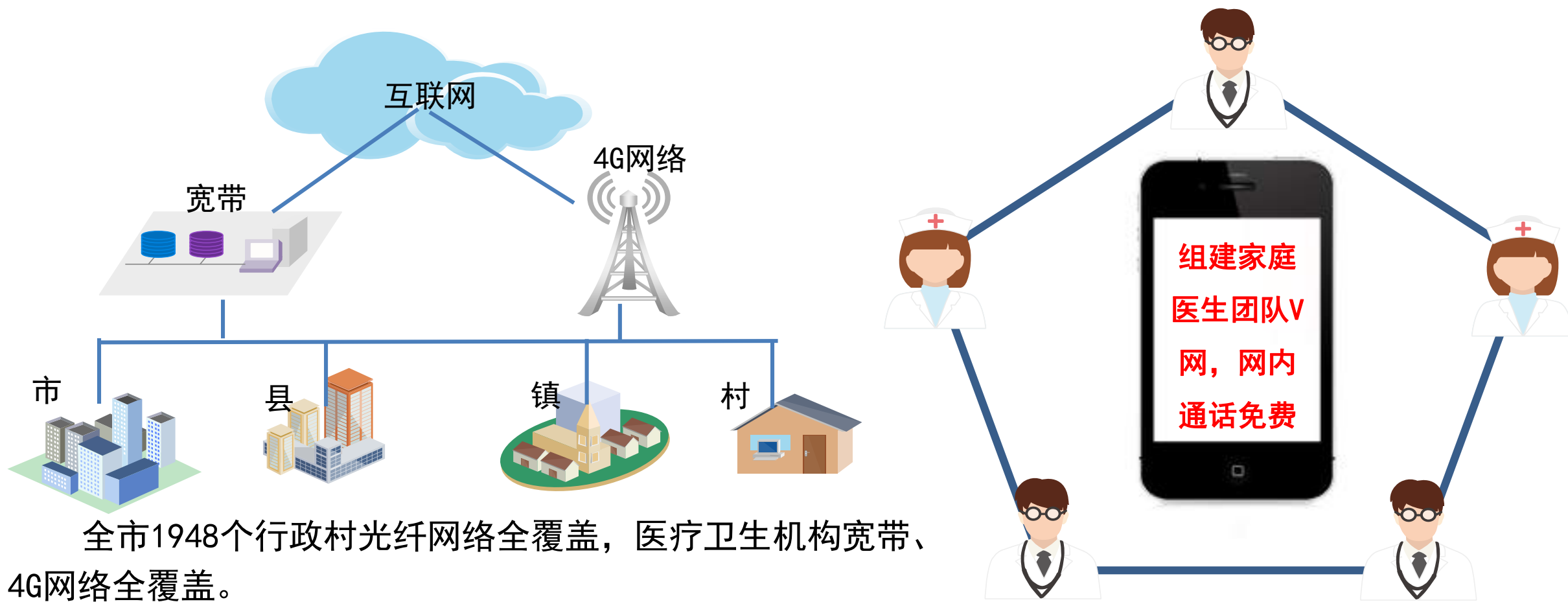
It provides scientific support for precise medical treatment, prevention and treatment of endemic diseases, health management, early warning of returning to poverty, elderly care and health care, medical insurance accounting, health industry development, government decision-making, etc.



四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

(一) 实现宽带网络全覆盖 Achieve full coverage of broadband network



全市1948个行政村光纤网络全覆盖，医疗卫生机构宽带、4G网络全覆盖。

The city's 1948 administrative villages have achieved full coverage of optical fiber networks, and all medical and health institutions have full coverage of optical fiber broadband and 4G network signals.

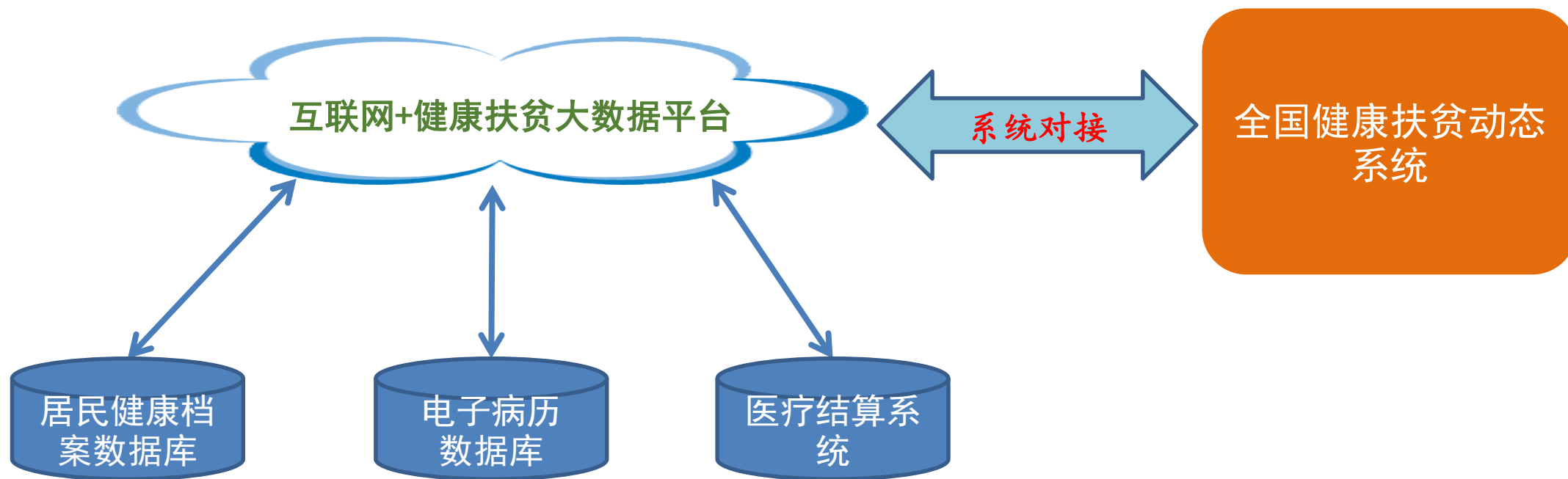


四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

(二) 建设互联网+健康扶贫大数据平台

Construction of big data platform for poverty alleviation through Internet +.



打通居民健康档案、电子病历、医疗结算系统，建立健康大数据交换平台，并与全国健康扶贫动态系统对接，实现数据互联互通和分析应用。

To connect residents' health records, electronic medical records and medical settlement system, establish data exchange platform, and connect with the national health poverty alleviation dynamic system to realize data interconnection and analysis and application.



四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

(二) 建设互联网+健康扶贫大数据平台



四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

(三) 开发移动应用终端 Develop mobile application terminal.



医生端:

- ☒ 慢病签约
- ☒ 健康指导
- ☒ 疾病上报
- ☒ 在线学习
- ☒ 在线指导
- ☒ 健康监管



居民端:

- ☒ 远程问诊
- ☒ 在线学习健康知识
- ☒ 预约挂号
- ☒ 查看家庭医生签约服务情况
- ☒ 查看家人健康状况

按照“平台+终端”的模式，研发了“互联网+医疗健康”服务APP。

According to the mode of “platform + terminal”, the “Internet + medical health service” app is developed.



四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

(三) 开发移动应用终端 Develop mobile application terminal.

医生端：

11:58 0.02% 92

< 高血压随访 >

基本信息

*随访日期

*此次随访方式 请选择 >

症状 >

体征

*血压收缩压 mmHg

*血压舒张压 mmHg

*本次体重 kg

*身高 cm

本次体质指数BMI kg/m²

下次目标体重 kg

下次目标体质指数BMI kg/m²

心率 次/分

19:05 16.5% 54

< 服务家庭 >

建档立卡人员	居民健康	城镇低保
公卫慢病	合疗慢病	地方病
多发慢病	非多发慢病	

19:07 16.1% 54

< 健康培训 +

气管插管术在急救中的应用	2018-11-15 18:57
气管插管术在急救中的应用	2018-11-15 18:30
健康生活指导	2018-11-15 16:20
高血压健康教育	2018-11-15 15:00
高血压健康教育	2018-11-15 15:00
平安镇县级家庭医生团队进校园健康讲座	2018-11-15 13:40
贫困户扶贫政策宣讲	2018-11-15 10:40
第四季度健康扶贫政策宣传	2018-11-15 10:25
预防乙肝	2018-11-14 09:00
高血压健康教育	2018-11-13 14:00
第四季度健康讲座	2018-11-13 10:00

四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

(三) 开发移动应用终端 Develop mobile application terminal.

居民端：



四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

(三) 开发移动应用终端 Develop mobile application terminal.



The screenshot shows a mobile application interface for high blood pressure follow-up. The title bar is green with a back arrow and the text '高血压随访'. Below the title bar, there is a section titled '基本信息' (Basic Information). The form includes fields for '随访日期' (Follow-up date), '此次随访方式' (This follow-up method) with a dropdown arrow, '症状' (Symptoms) with a dropdown arrow, and '体征' (Signs). Under '体征', there are fields for '血压收缩压' (Blood pressure systolic pressure) and '血压舒张压' (Blood pressure diastolic pressure), both in mmHg. There are also fields for '本次体重' (Current weight) and '身高' (Height), both in kg and cm. At the bottom, there are fields for '本次体质指数BMI' (Current BMI), '下次目标体重' (Next target weight), '下次目标体质指数BMI' (Next target BMI), and '心率' (Heart rate) in beats per minute.

成效
Effect

线上线下做实家庭医生签约服务

Online and offline contracting services for family doctors;

移动居民端实现群众自我参与健康管理

Mobile residents can realize self-participation in health management;

医疗机构从疾病治疗向治疗+健康管理并重转变

Medical institutions shift from disease treatment to treatment + health management;

大数据支撑健康扶贫长效机制

Big data supports a long-term mechanism for health and poverty alleviation.

四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

(四) 实现在线医学教育到人 Realize online medical education to individuals.



培训医务工作者
Training medical workers



向群众精准传播健康知识
Accurately disseminate health knowledge to the masses





四、精准发力，互联网+助推健康扶贫

Precise force, Internet + boost health poverty alleviation

(五) 实现远程诊疗到村 To achieve remote diagnosis and treatment to the village.



Get connection with high level hospitals outside the city, open remote diagnosis and treatment service system on city-county-village level, providing basic medical institutions and the masses with services such as appointments, remote training, and telemedicine.

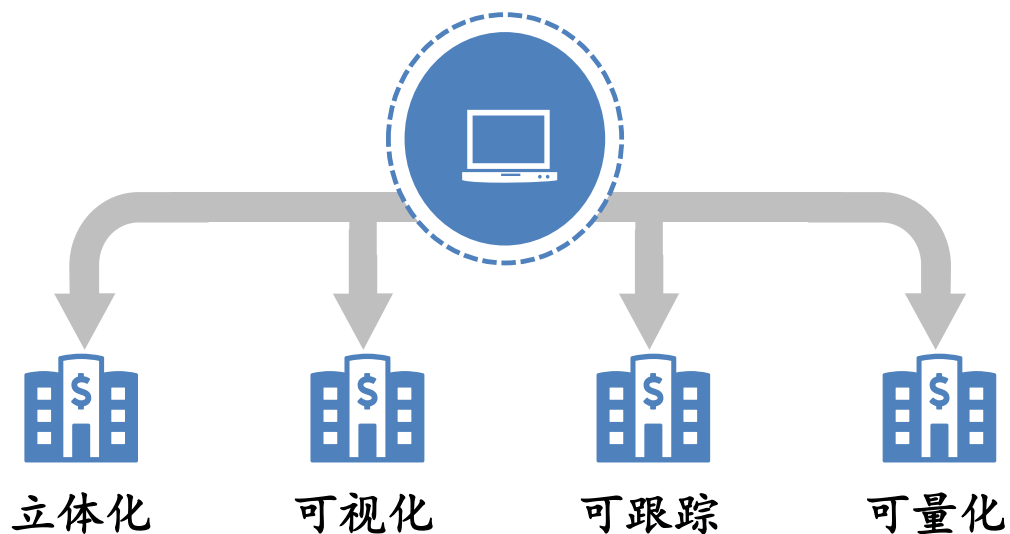


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(五) 实现远程诊疗到村 To achieve remote diagnosis and treatment to the village.

村卫生室设立远程诊疗服务点



使病人在村级即可接受市县专家的会诊，提高医务人员诊疗能力，降低群众医疗负担，实现了市县优质医疗资源的下沉，解决了分级诊疗上转容易、下转难问题。

To realize the sinking of high-quality medical resources in cities and counties so that patients can receive consultation from experts in cities and counties at the village; to improve the ability of medical personnel to diagnose and treat; to reduce the medical burden of the masses, and to solving the problems of easy to turn up and difficult to turn down in graded diagnosis and treatment.



四、精准发力，互联网+助推健康扶贫

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建设区域影像、区域检验、区域心电等远程诊断系统，检查检验同质同步、资源共享。

We will build remote diagnostic systems such as regional image, regional inspection and regional electrocardiogram to check and verify homogeneity, synchronization and resource sharing.

中国梦 健康梦

健康扶贫工作开展以来，我市认真贯彻落实习近平总书记**精准扶贫**理念，围绕基本医疗有保障，紧扣让贫困人口“看得起病、看得好病、方便看病、少生病”的目标，探索形成“四步筛查、三类分治；四重保障、一单结算；医联共体、健联管理”的健康扶贫“**汉中模式**”。

Since the launch of health poverty alleviation work, our city has earnestly implemented the important exposition of General Secretary Xi Jinping on precise poverty alleviation. Focusing on the guarantee of basic medical care, we have closely adhered to the goal of “affordable medical care, good medical care, convenient medical treatment and less illness” for the poor population, and explored the formation of “Hanzhong Model” whose connotation are “four-step screening, three types of treatment; four-level security, one-way settlement; health support of the medical association and the management of health care”.



成效 Work effectiveness

一是减贫成效明显。全市因病致贫人口由2017年的69360人下降到2019年4月底的17555人。

Poverty reduction has achieved remarkable results. By the end of April, the number of people living in poverty due to illness had dropped from 69360 in 2017 to 17555.

二是群众就医负担明显减轻。贫困人口住院报销7.85亿元。

The burden of medical treatment for the masses has been significantly reduced. The total hospitalization reimbursement of the poor is 785 million Yuan.

成效 Work effectiveness

三是优质医疗资源下沉加快了基层服务能力提升。累计为县及县以下医疗卫生机构招聘医学本科生1353人、医学大专生645人。为镇卫生院配备了DR（数字化拍片机）、全自动生化分析仪、心电图机、彩超、救护车等设备；规范化建设137所镇卫生院，99所中心卫生院建有职工公寓；贫困村已建成集体产权的标准化村卫生室，1030所村卫生室配备了数据同步上传的健康一体机。

The sinking of quality medical resources has accelerated the improvement of grassroots service capabilities. A total of 1353 medical undergraduates and 645 medical college students were recruited from counties and towns. 137 town health centers have been standardized; and 99 central health centers have built employee apartments. Poverty-stricken villages have built standardized village clinics with collective property rights; and 1,030 village clinics are equipped with all-in-one health machines for simultaneous data uploading.

成效 Work effectiveness

四是“互联网+健康扶贫”系统应用惠及更多基层群众。首批为6326名慢病贫困人口实行在线慢病管理，累计在线医学教育培训3600余人次，已有2700余人在基层享受到大医院专家的诊疗服务，精准发现并干预边缘人口2000余人因病致贫、返贫。

The application of “Internet + Health Poverty Alleviation” system benefits more grassroots people. The first batch of 6,326 chronic disease poor people implemented online chronic disease management, accumulated more than 3,600 person-times of online medical education and training, and more than 2,700 people have enjoyed the diagnosis and treatment services of experts in big hospitals at the grass-roots level, and accurately detected and intervened more than 2,000 people at the edge of the population to return to poverty due to illness.

