



Accessible HealthCare: A Mobile Healthcare Diagnostic System Powered by 5G Network

Tsinghua University
Certificate Program



Course Title:

Innovation & Entrepreneurship
for Digital Economy

Group Members

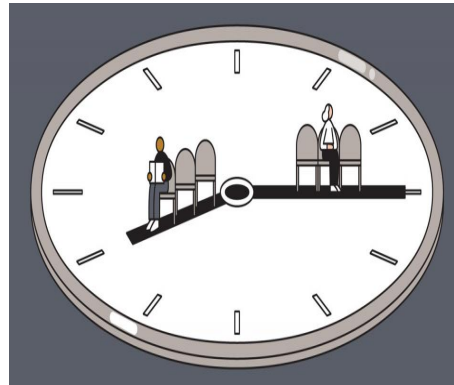
Name	University	Major
Fatoumata Attaherou Toure	北京中医药大学	Traditional Chinese Medicine (TCM)
Lariça Neidy Zacarias Lumaca	Tianjin University	Environmental Science and Engineering
Qin Ruoshi	Tsinghua University	Chemical Engineering
Rui Shen	Tsinghua University	Biomedical Engineering
Pewee Datto Kolubah	Tianjin University	Chemical Engineering and Technology

Presentation Outline

- ❑ Background and Overview of Project
- ❑ Project design
- ❑ Medical diagnostic system for mobile healthcare
- ❑ Medical prescription
- ❑ Project Prospect and Conclusion

Background and Overview of Project

People's health and life quality



Types of Telemedicine



Store-and-forward or asynchronous video



Live video-conferencing



Remote patient monitoring (RPM)

Background and Overview of Project

Types of Telemedicine Contd....



Mobile health or mHealth

Application of Telemedicine

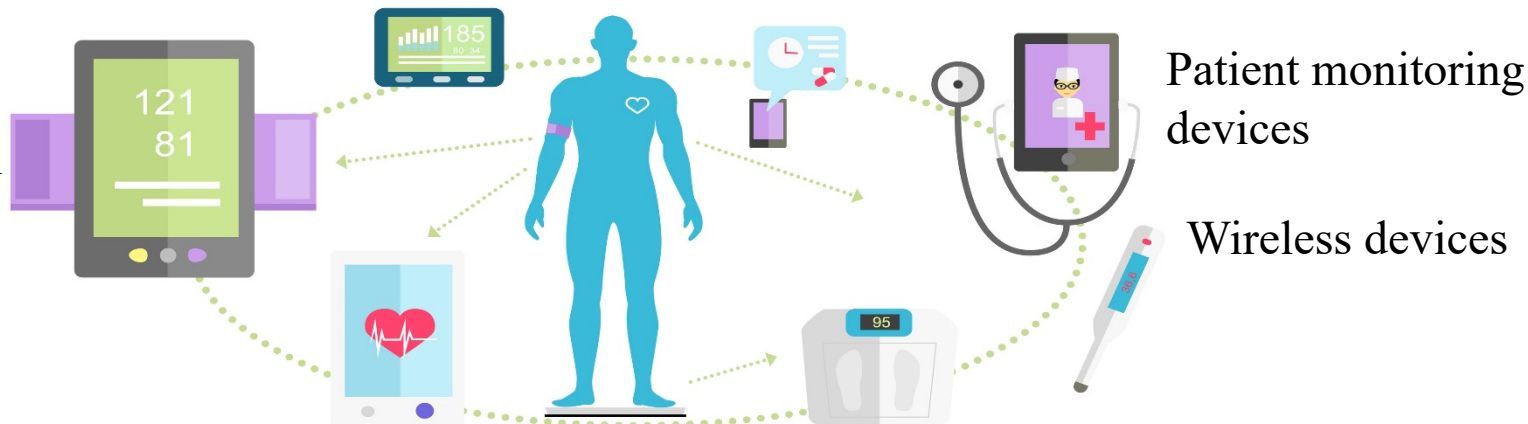
Telemedicine applications can be classified into four basic types;

- According to the mode of communication,
- Timing of the information transmitted,
- The purpose of the consultation
- The interaction between the individuals involved—be it RMP-to-patient / caregiver, or RMP to RMP.

Technologies used in the provision of mobile healthcare services

Mobile phones

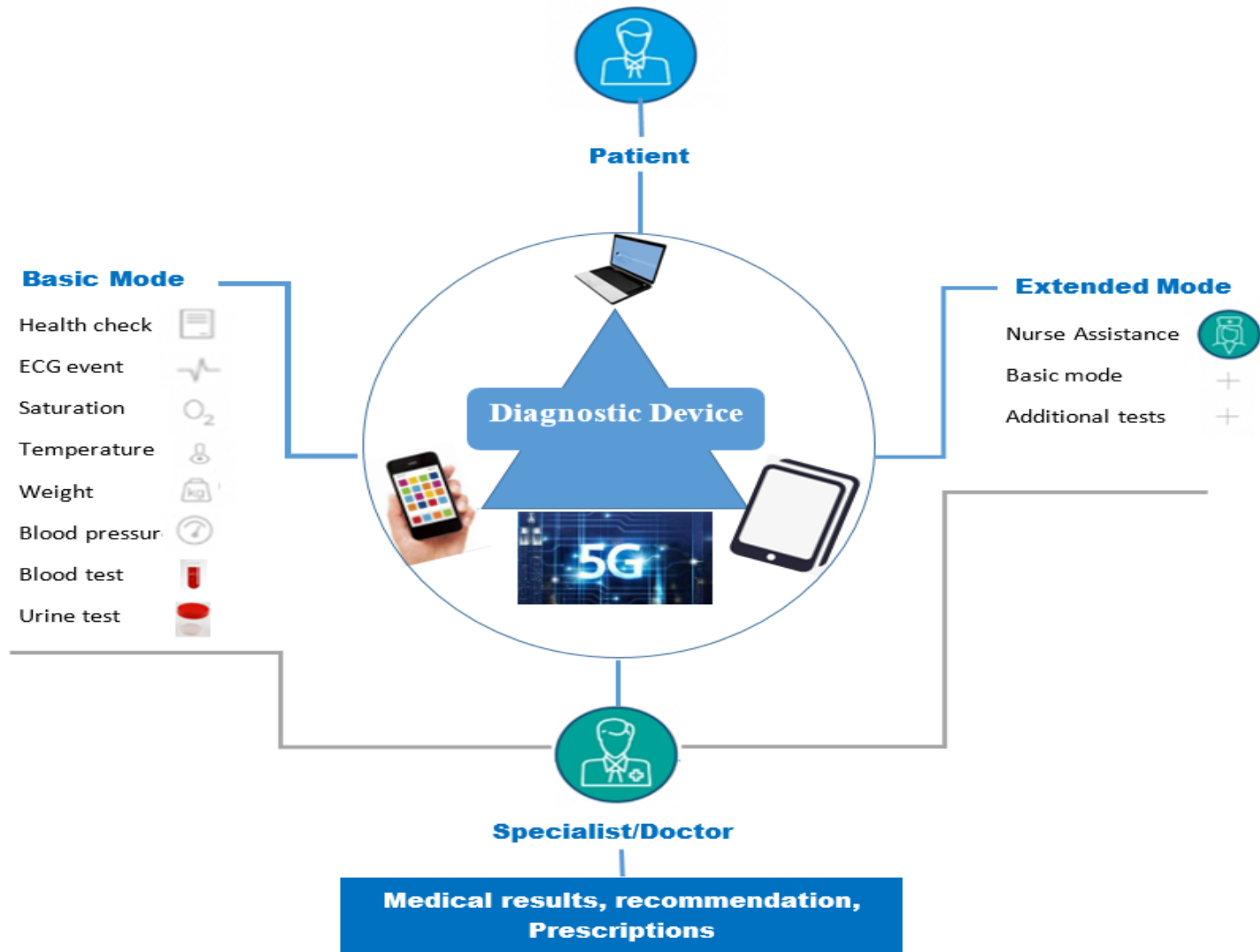
Personal digital assistants



Patient monitoring devices

Wireless devices

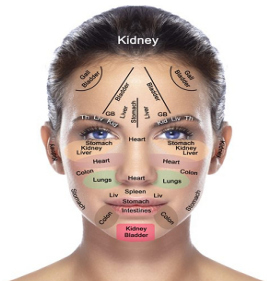
Project Design



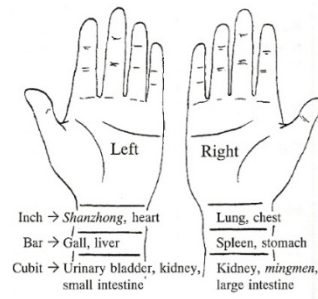
Medical diagnostic system for mobile healthcare

Our system hopes to combine the concept from Traditional Chinese Medicine system of diagnosis and the Western system of diagnosis.

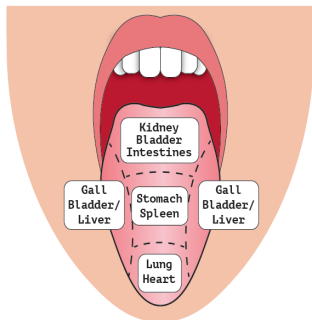
Traditional Chinese Medicine System of Diagnosis Mode:



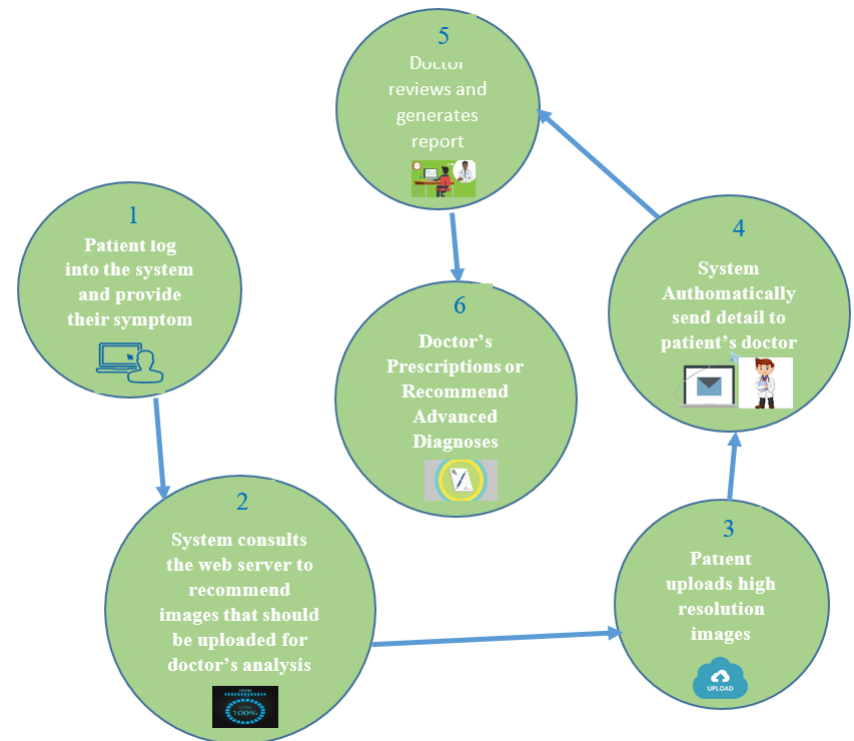
Observation



Palpation

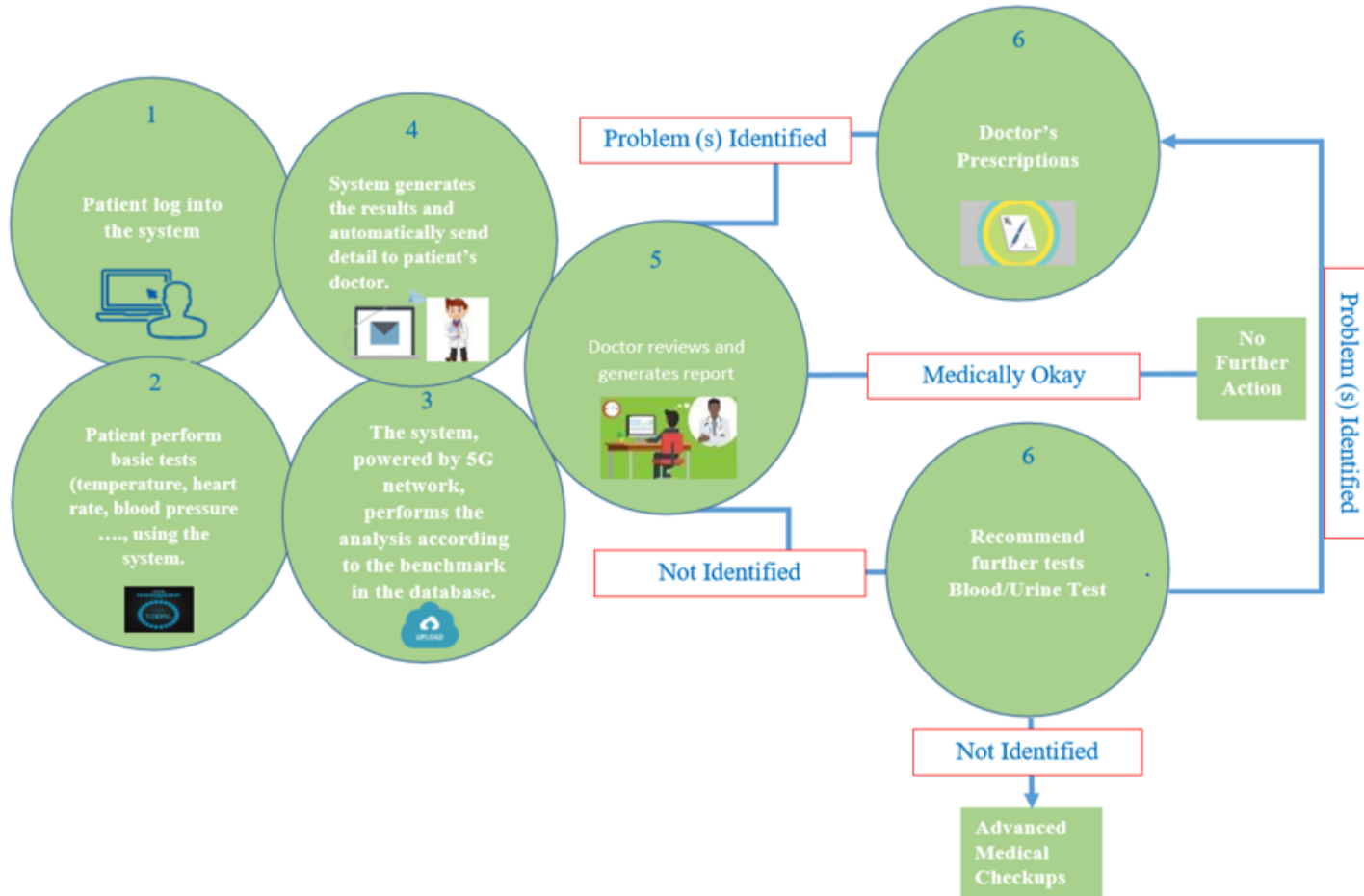


Tongue Diagnosis



Medical diagnostic system for mobile healthcare

Western System of Diagnosis Mode:



Medical Prescription

Traditional Chinese Medicine Prescription



Western Medical Prescription



- Acupuncture
- Moxibustion (the burning of herbal leaves on or near the body)
- Cupping (the use of warmed glass jars to create suction on certain points of the body)
- Massage
- Herbal remedies
- Movement and concentration exercises (such as tai chi)

- Pharmaceutical therapies

Project Prospect and Conclusion

As the global population increases there will be a demand for basic health services which will create more challenges for healthcare service provider to make available different ways that their patients can use to access quality and affordable healthcare services.

Healthcare service provider provides medical services for their patients

GAP

Easy access, convenient, and affordable healthcare services for patients

