Community Based Diabetic Retinopathy Prevention and Control Program in Shanghai

Shanghai Eye Disease Prevention and Treatment Center

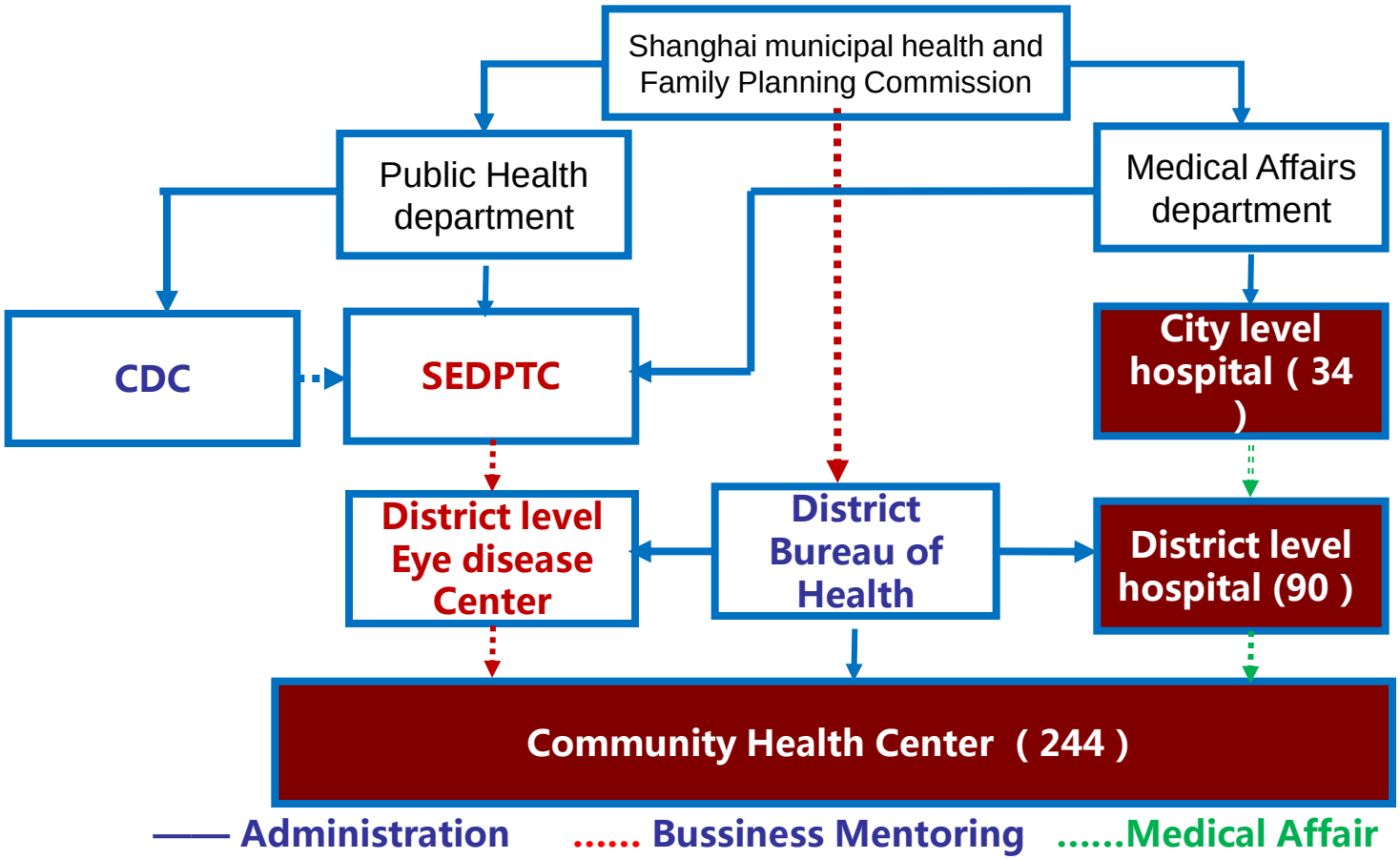
Oct. 13 ,2015 Beijing

www.shsyf.com

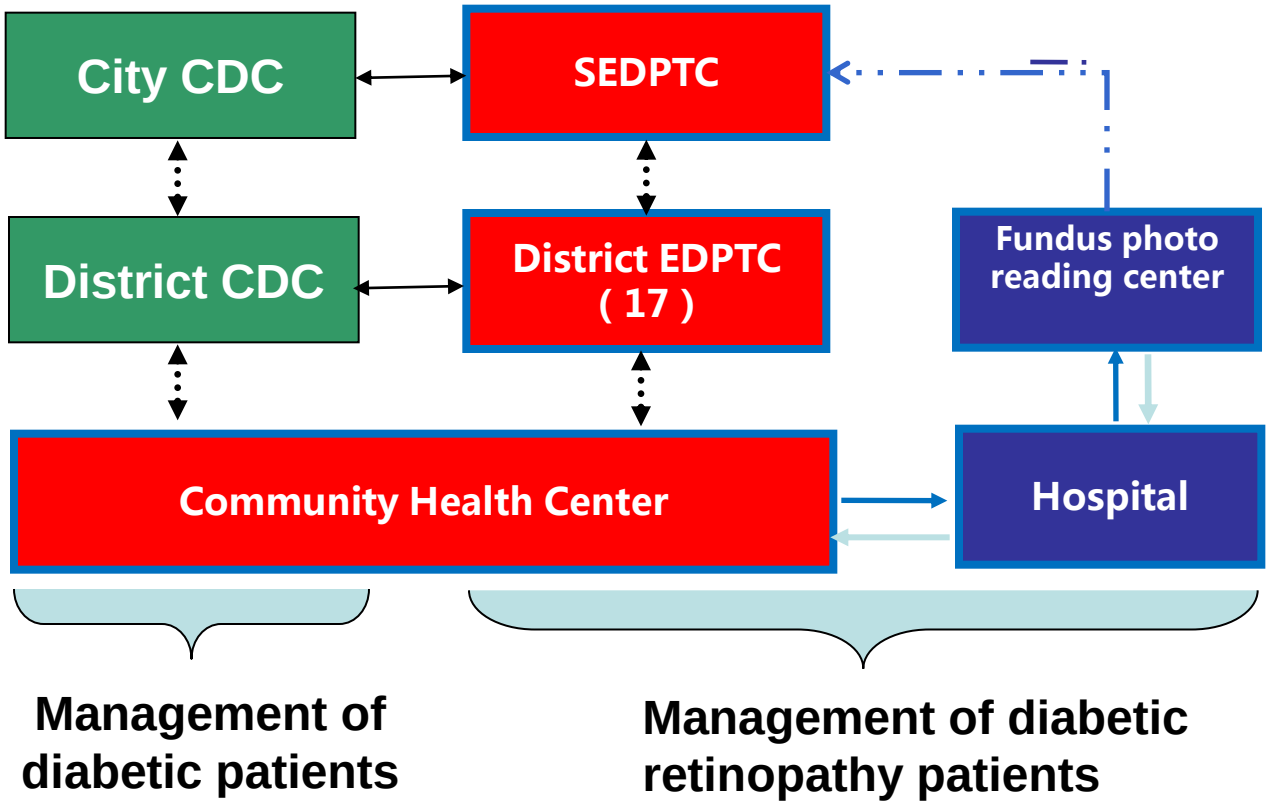
Shanghai Eye Disease Prevention and Treatment Center (SEDPTC)

- Founded in 1942
- Municipal eye disease prevention and treatment institute
- Under the direct leadership of Shanghai municipal health and Family Planning Commission, the disease control department and Medical Affairs department
- Responsible for the planning and organization of the city's eye disease prevention and control program

1 System of eye disease control and prevention in Shanghai



Management of diabetic patients with chronic disease management and eye disease management



2 The construction of comprehensive service system for the prevention and treatment of eye diseases -From the diabetic retinopathy prevention program

Start from Feb.2014

Community	Hospital	Mode
Changzheng, Putuo	Liqun Hospital	Screening camp
Jiangchuan, Minhang	5th People's Hospital	Intergrated into physical examination

Service Flow：

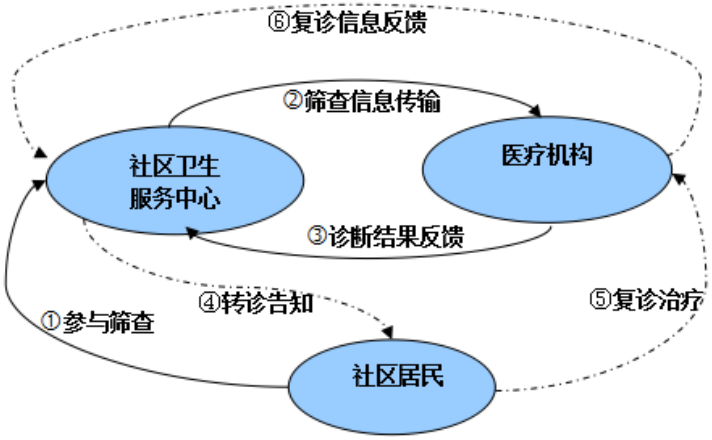


图　远程筛查技术与信息传输示意图

- **Community Health Center**

（1）Organizing diabetic patients screening for DR , establishing the eye health archive ;

（2）Referring the patients with DR to the cooprative hospital , according to the remote diagnosing from the ophthalmologists ;

（3）Following up the patients and promoting eye health education

Cooperative Hospital

（1）Remote fudus photo reading center, making diagnosis and providing advice ;

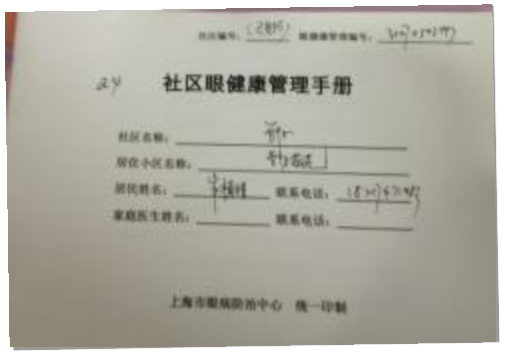
（2）Receiving the patients from the community , treating the DR patients with laser or surgery, if PDR or with other difficulty complication , referring them to the upper level hospital

2 Remote screening and IT technology

Commynity base screening

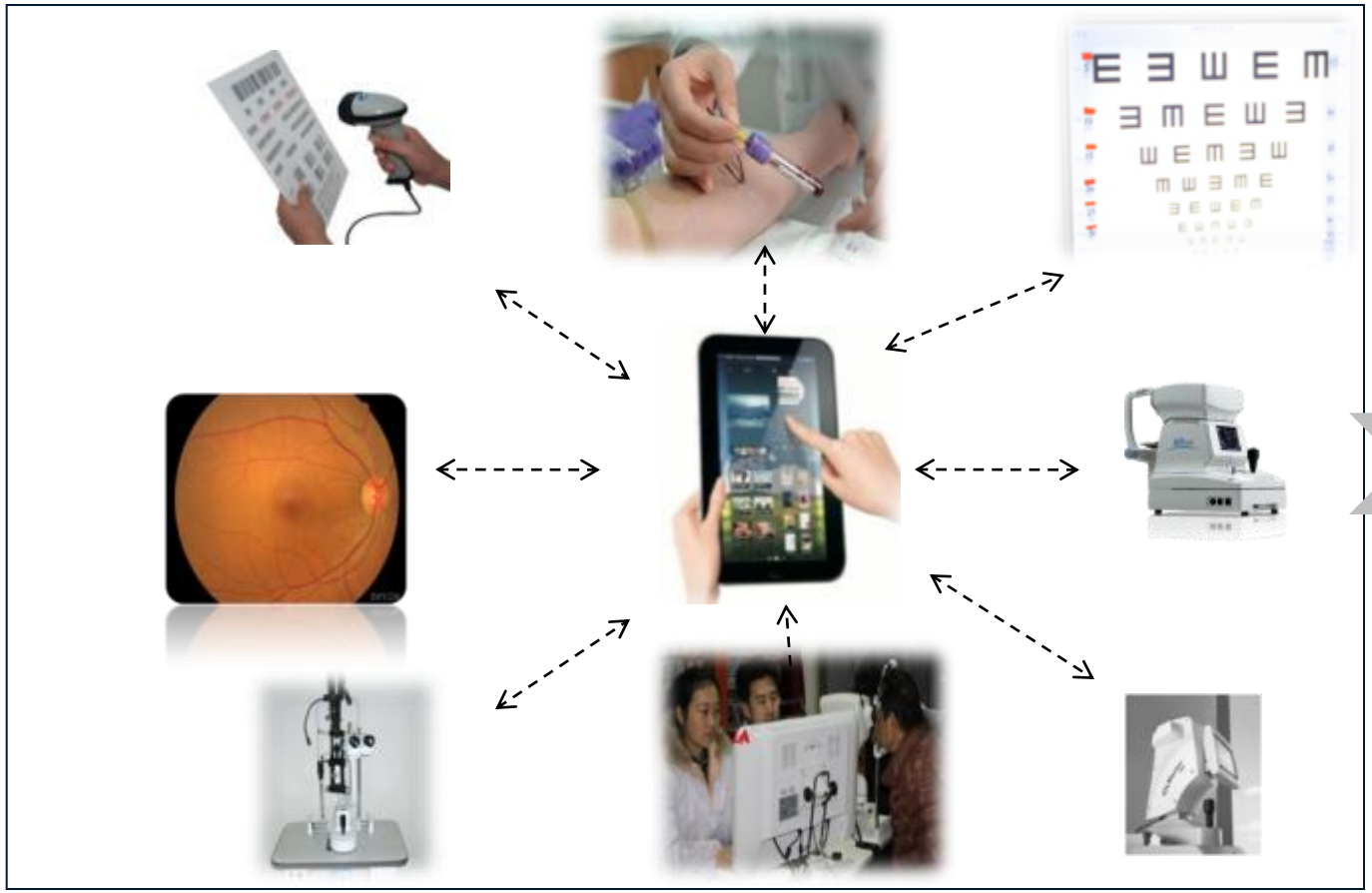
Remote diagnosis

Archive for DM patients



Feed back with diagnosis from ophthalmolgists

IT technology improving the screening flow

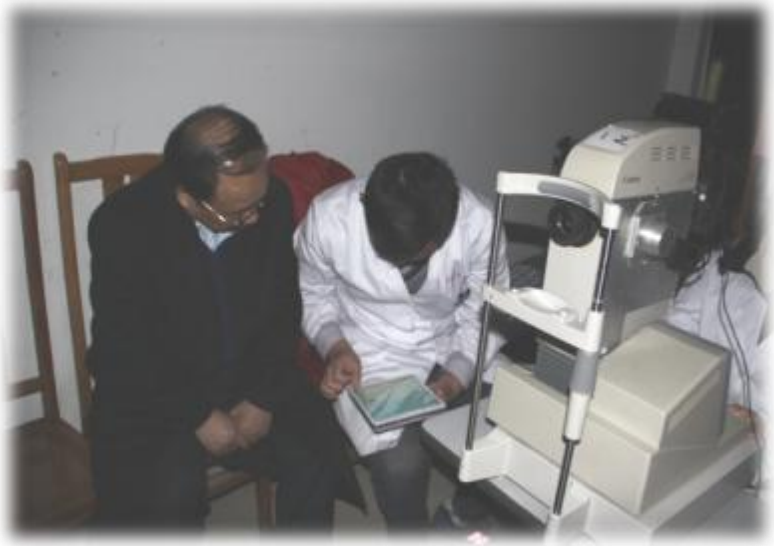


DM patients information g

Cloud

社区民众

Pro. Jialiang Zhao



2 Results

3700 DM patients

Rate of need referring
29.4%

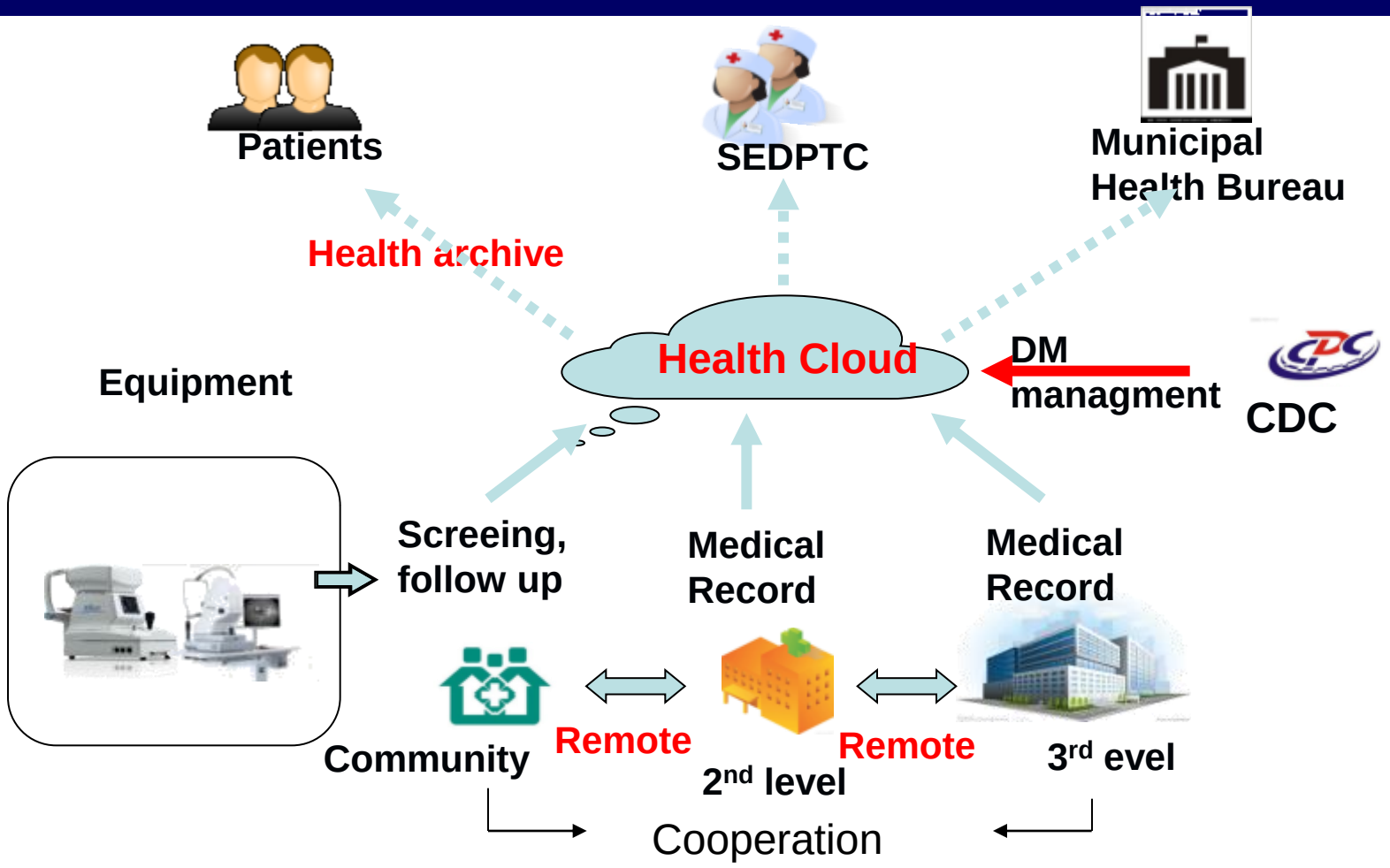
Rate of referring
68.57%

Rate need treatment
15.28%

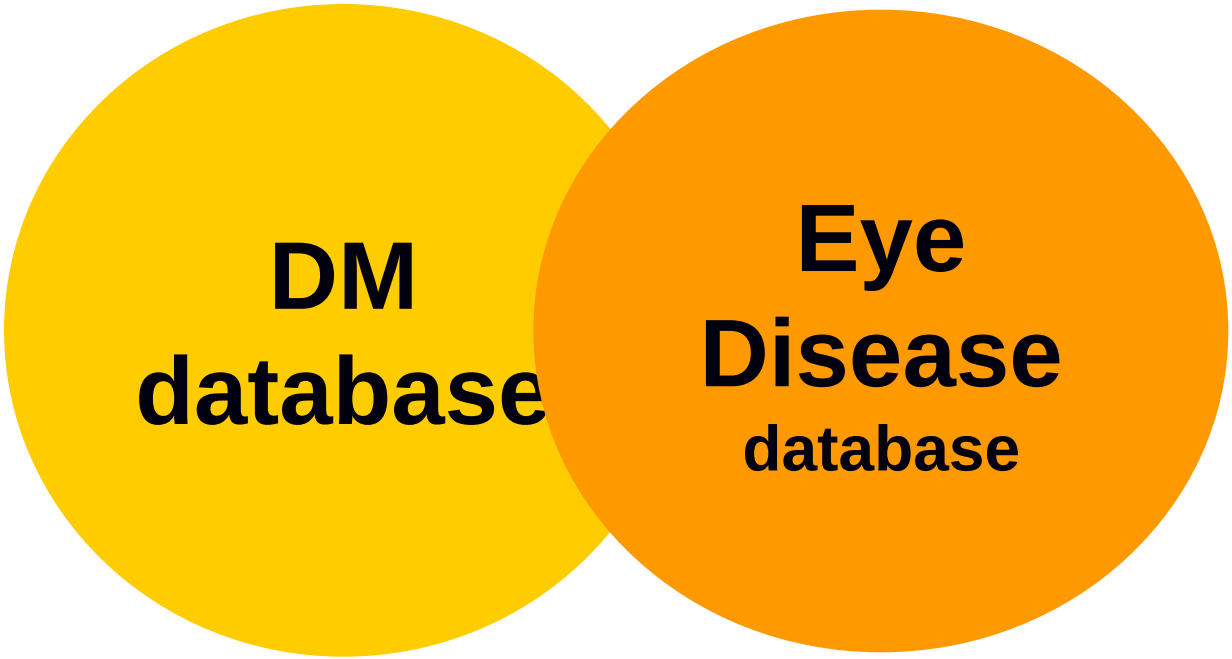
Platform for DM patients data in Shanghai

上海市健康信息网

DM patient management using huge data



Database：



- DM database

History
Clinical symtom
BG：FBG, OGTT, 2hPBG
HbA1c
Blood lipid：　Total cholesterol （mmol/L）
HDL（mmol/L）
LDL（mmol/L）
Triglyceride（mmol/L）
Renal Function：　Urinary albumin / urine creatinine(mg/mmol)
24 hour urine protein （mg/24h）
General situation :Weight (kg), Height(cm), waistlin(cm), Hipline(cm), BMI
Medication:
Sports：
Diet：

- **Eye disease database：**

Eye disease history：

Eye surgery history：

VA：UCVA, PVA, BCVA

Refraction：

Fundus：DR grade、DME others

Advice: follow up

Treatment：medication / surgery

Problems

- Training：

  community , GPs, lay screeners

  ophthalmologist (fundus photo reading and diagnosis)

- Instrument and equipment:

  community　fudus camera/ autorefraction

- Technology and software：

  with International recognition

谢谢大家！