Beijing, China
Peking University Health Science Center (PUHSC)
Brief History

1912: National Medical School of Beijing
1946: Peking University Medical School
1952: Beijing Medical College
1985: Beijing Medical University
2000: Peking University Health Science Centre
Current Structure

Peking University

- Faculty of Natural Sciences
- Faculty of Humanities
- Health Science Center
- Faculty of Social Sciences
- Faculty of Information & Engineering Sciences
Location

Peking University Health Science Center

New Research Complex Location

3rd Hospital

Mental Health Hospital
## Fast Facts - 2012

<table>
<thead>
<tr>
<th>Category</th>
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<td>Total Staff</td>
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<td>Professor and Associate Professor</td>
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<td>Affiliated Hospitals</td>
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<td>Teaching Hospitals</td>
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PUHSC Structure

- Over 600 students recruited each year, 170 students major in clinical medicine.
Medical education in China

155 medical schools in China, mainland
  * 151 public, 4 private

Category of medicine

<table>
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<td>Tibetan Medicine</td>
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<td>Mongolian Medicine</td>
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<td><strong>Total</strong></td>
<td><strong>155</strong></td>
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Medical education in China

- The main track of undergraduate medical education in China is 5-year program.

- The 13 top medical schools approved to have 8-year program.
Medical Education System in China

- High School
- Bachelor Degree
- Medical School (5 years)

Postgraduate Education
- Resident Training Programs

Top Medical Schools
- (8 Years Program, MD)

Continuing Medical Education
Postgraduate Education System in China

- **Postgraduate Education**
  - Academic Degree
    - Ms.S (3 year)
    - Ph.D (5-6 year)
  - Professional Degree
    - M.M (3 year)
    - M.D (2-3 year)

- First Stage Assessment: Certificate
- Second Stage Assessment: Specialists Training
Disciplines at PUHSC

- Basic Medicine
- Clinical Medicine
- Stomatology
- Pharmaceutical Science
- Public Health
- Nursing

- Psychology
- Biology
- Chemistry
- Chinese and Western Integrative Medicine
- History of Science and Technology
- Public Administration
Graduates program at PUHSC

<table>
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<th>Program Type</th>
<th>Count</th>
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<td>Academic doctoral programs</td>
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<tr>
<td>Professional Master’s programs</td>
<td>43</td>
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</tbody>
</table>
Graduates program at PUHSC

**Basic Medicine**
- Human Anatomy
- Histology and Embryology
- Immunology
- Pathogenic Organisms
- Pathology
- Radiation Medicine
- Pathophysiology

**Public Health**
- Epidemiology and Health Statistics
- Occupational and Environmental Health
- Nutrition and Food
- Hygiene
- Maternal, Child and Adolescent Health
- Hygiene Toxicology
### Number of recruited students in 2009-2013 (Full-time)

<table>
<thead>
<tr>
<th>Year</th>
<th>PhD&amp;MD</th>
<th>Master</th>
<th>Total</th>
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<td>2013</td>
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![Graph showing the number of recruited students from 2009 to 2013](image)
Number of current students in 2009-2013 (Full-time)

<table>
<thead>
<tr>
<th>Year</th>
<th>PhD&amp;MD</th>
<th>Master</th>
<th>Total</th>
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<td>1220</td>
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2009-2013年度在校生情况

- Number of current students in 2009-2013 (Full-time)

- Yearly distribution of students by degree type (PhD & MD vs. Master degrees).
The ratio of academic and professional degree of current students

Master's
- Academic: 53%
- Professional: 47%

Doctoral's
- Academic: 87%
- Professional: 13%
International Collaboration on Training of Postgraduate Research Students

- Degree program
- Non-degree program
Year 1: Liberal Arts
Year 2-3: Pre-Clinical Courses
Year 4-5: Clinical Courses

3-4 years in an oversea uni. for PhD Degree (the interlayer of the hamburger)
5%

Continue to have 3 years’ clinical training and get a MD degree

Back to PUHSC to finish the last 3 years’ clinical training for MD degree (the other side of the hamburger)

The MD-PhD Hamburger
Year 1: Liberal Arts
Year 2-3: Pre-Clinical Courses
Year 4-5: Stomatology Courses

Continue to have 3 years’ clinical training and get a DDS degree

Study 3-4 years at PUHSC For PhD Degree
Bachelor Level
- Students majoring in
  - Clinical Medicine,
  - Basic Medical Sciences,
  - Pharmacy,
  - Public Health,
  - Nursing,
  - Biomedical English
  - etc.

Master Level
- Students majoring in
  - 60 Academic Master's Programs

Doctoral Level
- MD and DDS Graduates

PhD Program in an Oversea University
PUHSC Partner Universities for PhD Program

**Australia**
- The University of Adelaide
- The University of Queensland
- Queensland University of Technology
- The University of Melbourne
- The University of Sydney
- 7 Students

**Canada**
- The University of British Columbia
- 2 Students

**Hong Kong**
- The Hong Kong University of Science & Technology
- The University of Hong Kong
- 41 Students

**Japan**
- Nagoya University
- 0 Students

**Netherlands**
- Erasmus University
- 2 Students

**Sweden**
- Karolinska Institutet
- 4 Students

**UK**
- The University of Edinburgh
- University of Birmingham
- King’s College
- 22 Students

**United States**
- The University of Pittsburgh
- University of Texas MD Anderson Cancer Center
- 2 Students
Collaboration with China Medical Board (CMB) in graduate training

+ Master programs （CMB partner university）

- CMB Next Generation Fellowship
  - 12-24 months’ study in health policy and system studies in acknowledged overseas institutions
  - From 2010, 2-3 students get the fellowship every year

- London School of Hygiene & Tropical Medicine-CMB Scholarship Program in Health Policy and Systems Science
  - For Academic Year 2013-2014 and 2014-2015
  - 5 students/young faculty admitted

- University of Washington Master Program in Global Health
  - Start from 2013
Collaboration with China Medical Board (CMB) in graduate training

Ph.D. programs

- University of Washington Ph.D. Program in Global Health
  - Start from 2013
  - Exclusive to 7 CMB partner medical institutions (including PUHSC)
  - 1 student was admitted from PUHSC
Non-degree program

- Joint-PhD students
- Short-term visiting students
- Mutual recognition of credits between cross-border universities (e.g: Collaboration with Australia Catholic University in Professional Master of Nursing)
### Joint PhD Students to countries /region in 2007-2013

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Strategic Partnership with Major Medical Universities
University of Sydney: Clinical Electives
The University of Adelaide: English and Medical School Program
Queensland University of Technology:

International Professional Experience Program for Health & Medical Students
Mismatch between Health Need and Health Professional Education in China

HPE has focused on elite education

Few GP education at HPE institutions

Serious shortage of qualified health professionals in grass-root health entities
Important policies

- A series of important policies by the State Council, MOE, MOH, and NDRC, MOF

- Main topics
  - GP education
  - Grass-root level health professional
  - Targeted enrollment for rural areas
## Development Plan for Health Professional: 2011-2020

**Targets and Timeline**

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<tr>
<th>Health Professional Type</th>
<th>2015</th>
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<tr>
<td>Grass-root health professional (million)</td>
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<td>GP (million)</td>
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<td>Public health professional (million)</td>
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<td>RN (million)</td>
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<td>Pharmacist (million)</td>
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<tr>
<td>HRH talent (thousand)</td>
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GP education

- Extremely important policy: Suggestions on Establishing the GP System by the State Council in 2011
- 300,000 GPs by 2020
- GPs will become the backbone of grass-root level health professional.
- “3+2” model: 3-year diploma medical education + 2-year postgraduate GP training
Targeted enrollment for rural areas

- The central government provides subsidies (6000 Yuan/student/year) for targeted enrollment in rural areas in middle and western China.
- In 2010, 5000 medical undergraduates for THC's, 5-year program.
- No tuition fees, subsidies to cover living costs
- Major in general practice.
- After graduation, six years of employment in grass-root level health entities.
PUHSC measures

- Establishment of Department of General Practice in 2011
- Integrating general practice topics into core medical curricula and 4 weeks clinical practice at community hospitals
- Faculty training through collaborating with Birmingham University
- Developing standards for general practitioner training
- Increasing the number of community practice base
- Master degree program in General Practice
Thank You!