SIGHTSEEING, MEDICINE, AND PANDAS—A SUMMER IN CHINA

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GLOBAL HEALTH PATHWAY
WEST CHINA MEDICAL SCHOOL OF SICHUAN UNIVERSITY
SUMMER CAMP 2013
CHINA

- **Location:** Chengdu
- **Population:** 10 million
- **Language:** Mandarin/Sichuanese
- **Long History of over 4000 Years

**Objectives:**
- **Learn about China’s Health Care System**
- **Apply Clinical Knowledge and Practice Skills**
- **Establish Lifelong Personal and Professional Friendships Through the Summer Exchange**
OVERVIEW

- **Week 1**: Emergency Department
- **Week 2**: Pathology, General Medicine, and Telemedicine Departments
- **Week 3**: Traditional Chinese Medicine Department
INTERNATIONAL STUDENT SUMMER CAMP
WEST CHINA SCHOOL OF MEDICINE
WEST CHINA HOSPITAL EMERGENCY DEPARTMENT
WEST CHINA HOSPITAL ED STATISTICS

- **Size of 7000 square ft. and divided into four main areas:** Consultation area, observation room, rescue room, and emergency intensive care unit (EICU).

- **In total, the ER offers 131 beds with 20 chairs for intravenous therapy.**

- **Total patient volume:** 150,000 visits per year
  - 40,000 of which are severe cases that require invasive procedures.

- **Medical staff has an average age of 27 and consists of:**
  - 77 physicians and 216 nurses
WEST CHINA HOSPITAL ER REPUTATION

- **enjoys a national and international reputation for excellence in emergency medicine care delivery, training, and education.**

- **Consistently ranked by the medical community as a top 3 medical school program year after year.**
RESEARCH AND FOCUS AREAS WITHIN THE ED

• THE DEPARTMENT IS EQUIPPED WITH MODERN EQUIPMENT AND TECHNOLOGY AND STRIVES TO CONDUCT BOTH BASIC AND CLINICAL RESEARCH, WITH THE VISION OF TRANSLATING ITS RESEARCH ACHIEVEMENTS TO THE BEDSIDE.

• THE SEVEN FOCUS AREAS OF THE ED ARE CARDIOVASCULAR, NEUROVASCULAR, TRAUMA, TOXICITY, SEVERE INFECTION, HEMODYNAMICS AND DISASTER MEDICINE.
COMMON CONDITIONS SEEN IN THE ED

Conditions Seen

- Fevers, including extensive numbers of FUOs
- Poisoning, particularly involving Paraquat, a common herbicide
- Trauma
- Severe infection and inflammatory conditions, such as pancreatitis.
- Lung, liver, and blood conditions.

Conditions Rarely Seen

- Gunshot and stab wounds
  - Apparently only see a few of these cases per year.
PARAQUAT

- **Trade name for one of the most commonly used herbicides around the world.**
- **In China, commonly abused by individuals who are attempting suicide because of availability.**
- **Lethal dose of ingestion in humans: 35 mg/kg**
OUR WEEK LONG EXPERIENCE IN THE ED

• Every day started at 8 A.M., beginning with a morning meeting/recap of the previous day’s activity and interesting cases (in English and Mandarin).

• Students then rounded in the ER, interviewing pts. and doing physical exams.

• Daily afternoon meeting for discussion of clinical cases, led by the Chinese interns and Dr. Wayne Bond Lau of Jefferson Medical College.

The team discussing outside the EICU.
TEAM PICTURE DURING THE AFTERNOON MEETING
MAKING NEW FRIENDS IN THE ED
DEPARTMENT OF PATHOLOGY

- Major Pathology Consultation Center in SW China
  - Receives 5000 cases for consultation per year
- 50,000 surgical pathological reports per year
- 30,000 cyto logical reports per year
- Largest resident and fellow training center
  - 20 – 30 residents in training
HISTOLOGICAL TECHNIQUES AND FACILITIES

- Frozen section
- Immunohistochemistry
- Image analysis
- Electron microscopy
- Cell culture
- Molecular biology
- Protein chemistry
PATHOLOGY MUSEUM TOUR
WEST CHINA TELEMEDICINE CENTER

- **Established in 2001**
- **Goals**
  - **Provide continuing medical education and training of medical staff in city-level or county-level hospitals via Internet**
  - **Train medical staff to further develop medical services in Western China**
  - **Provide consultation to network hospitals**
TELEMEDICINE SINCE 2001

- Network area includes 434 hospitals
- Distance teaching totaling over 2100 hours
- Trained 880,000 medical staff
- Consultation services for 5600 difficult severe cases in remote and earthquake-stricken areas
DEPARTMENT OF GENERAL MEDICINE

- Conditions similar to inpatient in USA
- VIP patients
  - Pay 50,000 yuan/year ($8,164 USD) for membership
  - First priority for inpatient bed with 50% discount
  - Annual physical exam
  - Consultation with physician for any condition
  - Full body PET scan
VIP PRIVILEGES

- **Single Room** includes a living room for patient families to relax
  - Cost: 1360 yuan/day ($222 USD)
DEPARTMENT OF INTEGRATED TRADITIONAL CHINESE AND WESTERN MEDICINE

• **Founded in 1956**
• **34 physicians**
• **170 beds**
• **Outpatient and inpatient wards**
ADMISSION TO INTEGRATIVE MEDICINE DEPARTMENT
STUDENTS AT INTEGRATIVE MEDICINE DEPARTMENT

- 5 years at Traditional Chinese Medicine school
- Residents round with attending physician
- Prescribe Western and herbal medicine
- Administer acupuncture
CONDITIONS TREATED

7 SPECIALIZED DISEASE CLINIC

- HEPATOPANCREATOBILIARY DISEASE
- PULMONARY DISEASE
- HEMORRHOID AND FISTULA
- TUMOR
- ACUPUNCTURE
- MOXIBUSTION
TRADITIONAL CHINESE MEDICINE

- Herbal Medicine
  (Individualized formula based on patient’s constitution)
TRADITIONAL CHINESE MEDICINE

- ACUPUNCTURE
  (TRADITIONAL, ELECTRICAL, AND INJECTION OF WESTERN MEDICINE INTO ACUPUNCTURES)
TRADITIONAL CHINESE MEDICINE

- Cupping
  (Manual or Electronic)
ACUTE PANCREATITIS AND TCM

• Largest single disease treatment for acute pancreatitis patients in China
• More than 1000 cases treated annually
  • Mortality decreased by 4%
  • Operation rate decreased to 8%
  • Shorter hospital stay and less cost
TCM TREATMENT FOR ACUTE PANCREATITIS

- Herbal drink 3x/day
- Liu He Dan herbal paste
- Electrical acupuncture
PLAY PERFORMANCE

- Play performance in English
- 2 foreign students, 8 Chinese students
- 1 week of rehearsal
SIGHTSEEING IN BEIJING
We would like to thank our school, UMMS, for allowing us to learn about the fascinating field of medicine through the lens of different cultures and societies. Specifically, we would like to thank Dr. Mick Godkin, Dr. Guangping Gao, and Dr. Hui Zou for assisting us throughout our trip.

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Thank you!