

Bohao Jiang

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EDUCATION

China Medical University – Shenyang, China 08/2022-present

Supervisor: Prof. Jianbin Bi

Master of Clinical Medicine (Surgery)

Expected to graduate in **June 2025**

China Medical University – Shenyang, China 09/2017-06/2022

Bachelor of Clinical Medicine

Score: 92/100 (GPA is not applicable due to our recording system. Written form of proof of no GPA can be provided if necessary.)

Rank 4th in my major (4/153, **top 3%**)

PUBLICATIONS (First author)

[Frontiers in Oncology] **Retroperitoneal Bronchogenic Cyst: A Case Report and Literature review**
PMID: 35944288 DOI: 10.3389/fonc.2024.1406270

PREPRINTS AND MANUSCRIPTS UNDER REVIEW

[eClinical Medicine] **Comparative Therapeutic Effects and Safety of Different Treatments for Metastatic Castration-resistant Prostate Cancer: A Systemic Review and Network Meta-Analysis on Antiandrogen, PARP Inhibitor and Immunotherapy**
First author
Manuscript ID: eclinm-D-24-04075 Current Status: Independent review

[Frontiers in Oncology] **Two Rare Cases of Primary Clear Cell Adenocarcinoma of the Urethra: Clinical experience, Case report and Literature Review**
First author
Manuscript ID: 1539312 Current Status: Independent review

[Frontiers in Oncology] **Case Report: Two Cases of Chemotherapy Refractory Aggressive Variant Prostate Cancer with Extreme Durable Response to PARP inhibitor**
First author
Manuscript ID: 1533627 Current Status: Reviewers assignment

[Translational Medicine] **Early Predictive Accuracy of Machine Learning for Hemorrhagic Transformation in Acute Ischemic Stroke: A Systemic review and Meta-Analysis**
Author: Benqiao Wang[#], **Bohao Jiang[#]**, Dan Liu, Ruixia Zhu^{*}
Co-first author: # Contribution: Data analysis and statistical method support
Manuscript ID: JTRM-D-24-16267 Current Status: Submitted

[Frontiers in Endocrinology] **4 cases of Juxtaglomerular cell tumor: Clinical experience and literature review**
Author: Mingyue Jin[#], **Bohao Jiang[#]**, Jiyuan Hu[#], Xianhao Xiao, Xiaolong Hou, Xiaoxiao Xu, Xiaojun Man^{*}, Hao Zhang^{*}
Co-first author: # Contribution: Clinical data collection and Literature review
Manuscript ID: 1536206 Current Status: Reviewers assignment

RESEARCH EXPERIENCE AND PROJECTS

1) Establishing a prostate cancer diagnostic model using prostate health index (PHI), multi-parameter MRI (mpMRI), and clinical biochemical indicators under machine learning methods (Graduation thesis)

Location: Department of urology, the First Affiliated Hospital of China Medical University

Role: The independent designers and main implementers of the research

Date:08/2023-present

- Aiming to train a new **non-invasive** prostate cancer diagnostic model which includes PHI, radiological manifestations, and routine biochemical through machine learning.
 - Preparation in advance (08/2023-10/2023): Literature reviews and bioinformatic analyses (LDSC/HDL) were conducted for the screening of suitable biochemical indicators for inclusion. Get a written approval by the ethics committee.
 - Collection of the training set data for machine learning (11/2023-08/2024): The data was retrospectively obtained from the internal system of the First Affiliated Hospital of China Medical University, which included 810 patients who undergone both PHI test and needle biopsy.
 - Preliminary analysis and Interim discussion (04/2024)
 - Collection of the validation set data (09/2024-11/2024): Cooperated with Shandong University Affiliated Qilu Hospital (Shandong Province, China). The inclusion/exclusion criteria remained constant with the training set. (212 patients included)
 - Construction of diagnostic model and formation of manuscript (12/2024-present): Through collaboration with bioinformatics professionals, a new diagnostic model has been established with good performance. The results will be transformed into my graduation thesis.
- 2) **Established a long term clinical follow-up database for malignant urological tumors for the First affiliated hospital of China Medical university (07/2023-10/2024)**

Location: Department of urology, the First Affiliated Hospital of China Medical University

Role: One of the 5 initiators (07/2023)

- In response to the request of the department head, a malignant tumor database for urology was jointly established by cooperation with four other master's students of the same class under the guidance of senior doctors.
- The database content includes patient IDs, medical history overview, preoperative laboratory tests, radiological manifestations, surgical procedures, pathological results and follow-up section. Created datasheets for data collection and follow-up in software EpiData 3.1.
- The database is divided into 4 major fields: prostate cancer, renal cell carcinoma and urothelial malignant tumor, and follow-up section. Due to the different focuses required, the questions on the datasheet for each field were different.

Role: Participant in Data Collection for Prostate Cancer (08/2023-10/2023)

- Preoperative evaluation and recording of intraoperative and postoperative data, with 20-30 patients per month.
- Adjustment and redesign of prostate cancer datasheets.

Role: Leader of the section: Renal Cell Carcinoma (11/2023-10/2024)

- Preoperative evaluation and recording of intraoperative and postoperative data, with 15-25 patients per week.
- Delivered the summarized data to the leader of the follow-up section for further routine follow-ups.
- Provided training for junior master's students to join our team. (2 new members have joined us)

The database we have established is planned for **long-term operation**, continuously collecting new cases and providing information for clinical treatment of urological malignant tumors, **even after all of us initiators graduate**.

3) **Follow-up program of patients underwent Robot-assisted Radical Prostatectomy**

Location: Department of urology, the First Affiliated Hospital of China Medical University

Role: One of the main participants in 2022-2023 (07/2022-12/2023)

- Investigated the postoperative recovery status of patients, changes in blood PSA levels, and the presence of recurrence through regular telephone follow-up. (40-50 patients per year)
- Submitted the follow-up data to the senior for further analysis.

4) **A Cross-trait Genome-Wide Analysis between lung cancer and a group of diseases (ongoing, secrets until article published)**

This research is currently underway. Plans, progress, and preliminary results are selectively displayed on my personal pages without revealing secrets.

CHINESE PATENTS

[Utility Model Patent: First Inventor]

A new type of tissue retractor with vacuum aspiration

Application Status: The internal review of the hospital and the third-party organization commissioned by the hospital has been passed. Waiting for approval from relevant government departments

PROFESSIONAL EXPERIENCES

The first hospital of China Medical University, Shenyang

09/2023-present

Surgical Resident

--Manage hospitalized patients (an average of **30 patients** per month), make preliminary diagnosis and assist supervising physicians with pre-surgical examinations and post-surgical management.

--An average monthly surgical volume of over **20 cases** as FA (first assistant) or SA (Second assistant) in surgery. Proficiency in basic surgical procedures and instrumentations.

--Supervise medical interns in basic clinical practice. Participate in the discussion of surgical protocols and in-house lectures.

--Develop **a comprehensive understanding** of clinical symptoms and treatments for tumors in various system.

The first hospital of China Medical University, Shenyang

08/2022-08/2023

Surgical Intern

--Assisted resident surgeons and professors in management of inpatients, attending surgeries as an assistant, and learning basic clinical skills. (an average of 30 patients per month)

--Participated in the in-house lectures.

-- Successfully passed the the Examinations of the National Certified Physicians and obtained ***the Certificate of Physician Credentials*** and ***the Certificate of Medical Licensure***

The Shengjing Hospital of China Medical University, Shenyang

09/2021-06/2022

Student Intern

--Assisted physicians in clinical work and participated in basic clinical operations.

--Develop a preliminary understanding of common diseases in various organs and systems.

HONORS AND AWARDS

Third-class Academic Scholarship awarded by China Medical University

2022-2023

Outstanding individual students of the school awarded by China Medical University

2020-2021

First-class Academic Scholarship awarded by China Medical University

2020-2021

2019-2020

2018-2019

Second-class Academic Scholarship awarded by China Medical University

2017-2018