Curriculum Vitae

Personal Information

- **Name**: He AN
- **Nationality**: Hong Kong
- **Contact Information**:

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  Email: u3004524@connect.hku.hk; anhe@sysucc.org.cn
- **Professional Website**: https://www.researchgate.net/profile/He-An
- **Languages**: English (Proficient), Mandarin (Native), Cantonese (Basic), Japanese (Basic)

Professional Profile

I am a dedicated Clinical Imaging Physician with extensive hands-on experience in clinical imaging diagnosis, specializing in Oncologic Imaging with a research focus on abdominal-pelvic malignancies. My work centres on advancing multi-modality imaging methodologies for cancer diagnosis, prognosis prediction, and treatment response evaluation. I aim to develop translatable imaging biomarkers and optimize precision oncology workflows for cancer patients, aligning with academic research and clinical translation goals.

Education

2016.09 - 2020.10

- **Degree**: Doctor of Philosophy (PhD)
- **Institution**: University of Hong Kong, Hong Kong
- **Thesis Title**: The Quantitative and Qualitative Evaluation of Ovarian Carcinoma using Multi-modality Imaging Approach
- **Major Coursework**: Advanced Statistical Methods, Laboratory Animal Handling and Surgical Techniques

2013.09 - 2016.07

- **Degree**: Master of Medicine (MMed) with Distinction
- **Institution**: China Medical University, Shenyang, China
- **Thesis Title**: Using Magnetic Resonance Elastography to Differentiate Benign and Malignant Pancreatic Masses

- **Major Coursework**: Medical Statistics, Clinical Medical Science Research (Design & Measurement & Evaluation), Modern Epidemiology Principles & Methods, Medical Documentation, Cytobiology, Medical Processing & SPSS Application, SAS Software in Medical Statistics

2008.09 - 2013.07

- **Degree**: Bachelor of Medicine & Bachelor of Surgery (MBBS) with Distinction
- **Institution**: China Medical University, Shenyang, China
- **Major Coursework**: Anatomy, Physiology, Pathology, Biochemistry, Pathophysiology, Physics, Diagnosis, Internal Medicine, Surgery, Gynaecology, Pediatrics, Radiology, Ultrasound, Nuclear Medicine, Clinical Research

Professional Experience

2023.07 - Present

- **Position**: Resident Physician & Junior Research Fellow
- **Institution**: Sun Yat-Sen University Cancer Centre, Guangzhou, China
- **Key Responsibilities**:
    1. Interpret medical images for accurate diagnosis and treatment planning
    2. Design and implement imaging protocols for oncology patients
    3. Conduct clinical research on multi-modality imaging in cancer diagnosis/prognosis
    4. Collaborate with interdisciplinary teams to optimize patient care
    5. Mentor junior researchers and medical students

2021.03 - 2023.06

- **Position**: Resident Physician & Clinical Postdoctoral Fellow
- **Institution**: Sun Yat-Sen University Cancer Centre, Guangzhou, China
- **Key Responsibilities**:
    1. Performed image interpretation (CT, MRI, DWI) for cancer patients
    2. Administered image-guided minimally invasive procedures
    3. Developed and validated imaging-based predictive models for treatment response
    4. Published research findings in peer-reviewed journals
    5. Coordinated with clinicians to align imaging findings with clinical outcomes

Publications

First Author

1. An H, Bhatia I, Cao F, Huang Z, Xie C. CT texture analysis in predicting treatment response and survival in patients with hepatocellular carcinoma treated with transarterial chemoembolization using random forest models. *BMC Cancer*, 2023, 23(1):201.
2. An H, Perucho JAU, Chiu KWH, Hui ES, Chu MMY, Ngu SF, Ngan HYS, Lee EYP. Association between high diffusion-weighted imaging-derived functional tumor burden of peritoneal carcinomatosis and overall survival in patients with advanced ovarian carcinoma. *Korean J Radiol*, 2022, 23(5):539-547.
3. An H, Wang Y, Wong EMF, Lyu S, Han L, Perucho JAU, Cao P, Lee EYP. CT texture analysis in histological classification of epithelial ovarian carcinoma. *Eur Radiol*, 2021, 31(7):5050-5058.
4. An H, Chiu KWH, Tse KY, Ngan HYS, Khong PL, Lee EYP. The value of contrast-enhanced CT in the detection of residual disease after neo-adjuvant chemotherapy in ovarian cancer. *Acad Radiol*, 2020, 27(7):951-957.
5. An H, Ma X, Pan Z, Guo H, Lee EYP. Qualitative and quantitative comparison of image quality between single-shot echo-planar and interleaved multi-shot echo-planar diffusion-weighted imaging in female pelvis. *Eur Radiol*, 2020, 30(4):1876-1884.
6. An H, Lee EYP, Chiu K, Chang C. The emerging roles of functional imaging in ovarian cancer with peritoneal carcinomatosis. *Clin Radiol*, 2018, 73(7):597-609.
7. An H, Shi Y, Guo Q, Liu Y. Test-retest reliability of 3D EPI MR elastography of the pancreas. *Clin Radiol*, 2016, 71(10):1068.e7-1068.e12.
8. An H, Shi Y, Guo Q. Feasibility of 3D Magnetic Resonance Elastography in evaluating pancreatic elasticity in healthy volunteers. *Journal of Clinical Medical Imaging*, 2015, 26(9):646-649. (In Chinese)
9. An H, Shi Y, Guo Q. Current status of pancreatic Magnetic Resonance Elastography. *Journal of Clinical Medical Imaging*, 2016, 27(9):666-669. (In Chinese)

Co-Author

1. Lee EYP, An H, Tse KY, Khong PL. Molecular imaging of peritoneal carcinomatosis in ovarian carcinoma. *AJR Am J Roentgenol*, 2020, 215(2):305-312.
2. Lee EYP, An H, Perucho JAU, Chiu K, Hui E, Chu M, Ngan HYS. Functional tumour burden of peritoneal carcinomatosis derived from DWI could predict incomplete tumour debulking in advanced ovarian carcinoma. *Eur Radiol*, 2020, 30(10):5551-5559.
3. Chiu K, Lam KO, An H, Cheung GTC, LAU JKS, Choy T, LEE VHF. Long-term outcomes and recurrence pattern of 18F-FDG PET-CT complete metabolic response

in the first-line treatment of metastatic colorectal cancer: a lesion-based and patient-based analysis. *BMC Cancer*, 2018, 18(1):776.

4. Shi Y, Xia F, Li Q, Li J, Yu B, An H, Glaser KJ, Tao S, Ehman RL, Guo Q. Magnetic Resonance Elastography for the Evaluation of Liver Fibrosis in Chronic Hepatitis B and C by Using Both Gradient-Recalled Echo and Spin-Echo Echo Planar Imaging: A Prospective Study. *Am J Gastroenterol*, 2016, 111(6):823-833.
5. Shi Y, Liu Y, Li Q, Li J, An H, Yu B, Guo Q. SE-EPI Magnetic Resonance Elastography in evaluating esophagogastric varices in cirrhosis. *Chinese Journal of Medical Imaging Technology*, 2016, 32(2):266-269. (In Chinese)
6. Guo Q, Liu G, An H. Clinical study on the feasibility of laparoscopic tubal anastomosis. *Progress in Obstetrics and Gynecology*, 2014, 23(10):817-820. (In Chinese)

Conference Presentations

1. An H, Lee EYP, Ma X, Pan Z, Guo H. Qualitative and quantitative comparison of image quality between interleaved multi-shot echo-planar and single-shot echo-planar diffusion-weighted imaging in patients with endometrial cancer. *75th Korean Congress of Radiology (KCR)*, Seoul, Korea, Sep 18-21, 2019 (Oral Presentation)
2. An H, Lee EYP, Perucho JAU, Chiu K, Chu M, Tse KY. DWI predicts surgical outcome in advanced ovarian cancer. *Annual Meeting of European Society of Radiology (ESR)*, Vienna, Austria, Feb 27-Mar 3, 2019 (Oral Presentation)
3. An H, Perucho JAU, Chiu K, Chu M, Tse KY, Lee EYP. The impact of tumour burden derived from diffusion-weighted imaging on surgical complexity in primary advanced ovarian cancer. *27th Annual Scientific Meeting of Hong Kong College of Radiologists (HKCR)*, Aberdeen, Hong Kong, Nov 17-18, 2019 (Oral Presentation)
4. An H, Lee EYP, Chan Q, Perucho JAU. Relationship of apparent diffusion coefficient on diffusion-weighted imaging and tumour burden in ovarian cancer. *27th Annual Meeting of International Society for Magnetic Resonance in Medicine (ISMRM)*, Paris, France, Jun 16-21, 2018 (Scientific Poster)
5. An H, Lee EYP, Perucho JAU, Chiu K, Chu M, Tse KY. Association between changes in tumour burden and tumour cellularity after neoadjuvant chemotherapy, and the technical success of interval debulking surgery in stage III-IV ovarian cancer. *26th Annual Scientific Meeting of Hong Kong College of Radiologists (HKCR)*, Aberdeen, Hong Kong, Nov 17-18, 2018 (Oral Presentation)
6. An H, Chiu K, Lam K, Vardhanabhuti V. Clinical Outcomes and Progression Pattern of Patients with Complete Metabolic Response by 18F-FDG PET-CT in Patients with Metastatic Colorectal Carcinoma. *Scientific Assembly and Annual Meeting of Radiological Society of North America (RSNA)*, Chicago, USA, Nov 26-Dec 1, 2017 (Scientific Poster)
7. An H, Lee EYP, Perucho JAU, Tse KY, Chu M, Hui E. Feasibility of DWI in predicting residual disease following surgery in ovarian cancer. *25th Annual Scientific Meeting*

of Hong Kong College of Radiologists (HKCR), Aberdeen, Hong Kong, Nov 18-19, 2017 (Oral Presentation)

8. An H, Shi Y, Guo Q. Test-retest reliability of 3D-EPI MR elastography in pancreas. *Scientific Assembly and Annual Meeting of Radiological Society of North America (RSNA)*, Chicago, USA, Nov 29-Dec 4, 2015 (Oral Presentation)
9. An H, Shi Y, Guo Q. Feasibility of using 3D MR Elastography to differentiate benign and malignant masses in pancreas. *Scientific Assembly and Annual Meeting of Radiological Society of North America (RSNA)*, Chicago, USA, Nov 30-Dec 5, 2014 (Scientific Poster)

Awards & Certifications

- 2017: Runners-up, Ladies' Doubles Tournament, The Hong Kong Jockey Club III Student Residence Hall Badminton Tournament
- 2016: Postgraduate Scholarship, University of Hong Kong
- 2016: Outstanding Graduate, Liaoning Province, China
- 2014: China National Scholarship, China
- 2003: Grade Nine Qualification in Piano Playing, China