



Curriculum Vitae

Ko-Han Lin

Attending physician, Department of Nuclear Medicine, Taipei Veterans General Hospital

I am a nuclear medicine physician receiving my resident and fellowship training at Taipei Veterans General Hospital. Since resident training, I started to involve in the Yttrium-90 SIRT multi-discipline team of VGHTPE from the very first patient in 2008 until now. Besides the Yttrium-90 SIRT, I also devote myself to boron neutron capture therapy (BNCT). I also specialize in PET/CT and PET/MRI imaging in thoracic oncology and hepatology.

- **Education:**

M.D. National Defense Medical Center, Taipei, Taiwan

- **Professional Training:**

Resident in Department of Nuclear Medicine, Taipei Veterans General Hospital

Fellowship in Department of Nuclear Medicine, Taipei Veterans General Hospital

Attending physician, Division of Family Medicine, Taipei Veterans General Hospital Taoyuan Branch

- **Research and Personal Interests**

- PET/MRI hybrid imaging in oncology
- Yttrium-90 microsphere radioembolization: pre-treatment evaluation, post-treatment imaging and dosimetry
- PET/CT and PET/MRI imaging in Boron Neutron Capture Therapy (BNCT)



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- PET imaging in thoracic oncology (lung and esophagus)
- PET imaging in hepatology and gastrointestinal tract
- **Recent Research Programs**
 - Post Yttrium-90 SIRT imaging and dosimetry
 - FBPA-PET before BNCT treatment
 - The role of F-18 PSMA-1007 in hepatocellular carcinoma
 - Hybrid PET/MRI imaging in oncology
- **Publications**
 - Chen YL, Yang BH, Shih IL, **Lin KH** (*corresponding author*). Evaluation of PET List Data-Driven Gated Motion Correction Technique Applied in Lung Tumors. J. Med. Biol. Eng. 2022;42:382–387
 - Yeh JC, Yu WH, Yang CK, Chien LI, **Lin KH**, Huang WS, Hsu PK. Predicting aggressive histopathological features in esophageal cancer with positron emission tomography using a deep convolutional neural network. Ann Transl Med. 2021 Jan;9(1):37.
 - Lo YW, Lee JC, Hu YS, Li CY, Chen YL, Lin CS, Huang WS, **Lin KH** (*corresponding author*), Chen YW. The importance of optimal ROIs delineation for FBPA-PET before BNCT. Appl Radiat Isot. 2020 Sep;163:109219.
 - Lan TL, Chou FI, **Lin KH**, Pan PS, Lee JC, Huang WS, Liu YM, Chao Y, Chen YW. Using salvage Boron Neutron Capture Therapy (BNCT) for recurrent malignant brain tumors in Taiwan. Appl Radiat Isot. 2020 Jun;160:109105.
 - Li T, Zhu L, Lu Z, Song N, **Lin KH**, Mok GSP. BIGDOSE: software for 3D personalized targeted radionuclide therapy



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- dosimetry. Quant Imaging Med Surg. 2020 Jan;10(1):160-170.
- Ting CH, **Lin KH** (co-first author), Chiu CH, Lee RC, Huang WS. Simultaneous Time-of-Flight PET/MR Identifies the Hepatic 90Y-Resin Distribution After Radioembolization. 2020 Feb;45(2):e92-e93.
 - Yang CK, Yeh JC, Yu WH, Chien LI, **Lin KH**, Huang WS, Hsu PK. Deep Convolutional Neural Network-Based Positron Emission Tomography Analysis Predicts Esophageal Cancer Outcome. J Clin Med. 2019 Jun 13;8(6). pii: E844.
 - **Lin KH**, Chen YW, Lee RC, Wang LW, Chou FI, Chang CW, Yen SH, Huang WS. Nuclear Theranostics in Taiwan. Nucl Med Mol Imaging. 2019 Apr;53(2):86-91.
 - Hu LH, Wu LC, Lee CY, **Lin KH**, Chu LS, Liu RS, Huang WS, Chang CP. A practical background correction method for an immediately repeated first-pass radionuclide angiography. J Chin Med Assoc. 2018 Apr;81(4):331-339.
 - Wang TH, Huang PI, Hu YW, **Lin KH**, Liu CS, Lin YY, Liu CA, Tseng HS, Liu YM, Lee RC. Combined Yttrium-90 microsphere selective internal radiation therapy and external beam radiotherapy in patients with hepatocellular carcinoma: From clinical aspects to dosimetry. PLoS One. 2018 Jan 2;13(1):e0190098.
 - Yang CK, Yeh JC, Yu WH, Chien LI, **Lin KH**, Huang WS, Hsu PK. Deep Convolutional Neural Network-Based Positron Emission Tomography Analysis Predicts Esophageal Cancer Outcome. J Clin Med. 2019 Jun 13;8(6). pii: E844.
 - **Lin KH**, Chen YW, Lee RC, Wang LW, Chou FI, Chang CW, Yen SH, Huang WS. Nuclear Theranostics in Taiwan. Nucl Med



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- Mol Imaging. 2019 Apr;53(2):86-91.
- Hu LH, Wu LC, Lee CY, **Lin KH**, Chu LS, Liu RS, Huang WS, Chang CP. A practical background correction method for an immediately repeated first-pass radionuclide angiography. J Chin Med Assoc. 2018 Apr;81(4):331-339.
 - Wang TH, Huang PI, Hu YW, **Lin KH**, Liu CS, Lin YY, Liu CA, Tseng HS, Liu YM, Lee RC. Combined Yttrium-90 microsphere selective internal radiation therapy and external beam radiotherapy in patients with hepatocellular carcinoma: From clinical aspects to dosimetry. PLoS One. 2018 Jan 2;13(1):e0190098.
 - Wang LW, Chen YW, Ho CY, Hsueh Liu YW, Chou FI, Liu YH, Liu HM, Peir JJ, Jiang SH, Chang CW, Liu CS, **Lin KH**, Wang SJ, Chu PY, Lo WL, Kao SY, Yen SH. Fractionated Boron Neutron Capture Therapy in Locally Recurrent Head and Neck Cancer: A Prospective Phase I/II Trial. Int J Radiat Oncol Biol Phys. 2016 May 1;95(1):396-403.
 - **Lin KH**, Lee RC, Liu, RS, Chang CY. The prognostic value of tumor shadow disappearance rate on integrated PET/CT evaluation of solitary pulmonary nodules with low glucose metabolism. Nucl Med Commun. 2016 Apr;37(4):356-62.
 - Chang CY, Yang BH, **Lin KH**, Liu RS, Wang SJ, Shih WJ. Feasibility and incremental benefit of puffed-cheek 18F-FDG PET/CT on oral cancer patients. Clin Nucl Med. 2013 Oct;38(10):e374-8.
 - Lin WY, Hsu WH, **Lin KH**, Wang SJ. Role of preoperative PET-CT in assessing mediastinal and hilar lymph node status in early stage lung cancer. J Chin Med Assoc. 2012 May;75(5):203-8.
 - Bhatia K, Mok G, **Lin K**, Choi F. A diffuse branching pattern of



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biliary FDG activity: infective or neoplastic? Rev Esp Med Nucl Imagen Mol. 2012 May-Jun;31(3):165-6

- Chang CY, **Lin KH**, Chu YK, Chang CP, Liu RS, Wang SJ. Incidental finding of autosomal dominant polycystic kidney disease with liver involvement on Tc-99m sestamibi scintigraphy. Clin Nucl Med. 2011 Jul;36(7):e69-70.
- **Lin KH**, Chang CP, Liu RS, Wang SJ. F-18 FDG PET/CT in evaluation of pulmonary sclerosing hemangioma. Clin Nucl Med. 2011 May;36(5):341-3.
- Liu CS, **Lin KH**, Lee RC, Tseng HS, Wang LW, Huang PI, Chao LS, Chang CY, Yen SH, Tung CJ, Wang SJ, Wong CY, Liu RS, Model-based Radiation Dose Correction for Yttrium-90 Microsphere Treatment of Liver Tumors with Central Necrosis. Internation Journal of Radiation Oncology, Biology, Physics. 2011;81(3):660-8.
- Chiu CH, Yeh YC, **Lin KH**, Wu YC, Lee YC, Chou TY, Tsai CM. Histological subtypes of lung adenocarcinoma have differential 18F-fluorodeoxyglucose uptakes on the positron emission tomography/computed tomography scan. J Thorac Oncol. 2011 Oct;6(10):1697-703.

● International Conference Abstract & Lecture

- Plenary Speech, “Initial Experience of Using a Hybrid PET/MRI scanner for FBPA-PET”, 18th International Congress on Neutron Capture Therapy, October 28~November 2, 2018, Taipei, Taiwan.
- Plenary Speech, “Y90 SIRT Dosimetry”, 3rd Asia Pacific Symposium on Liver-Directed Cancer Therapy using ⁹⁰Y-resin Microspheres
- Lin KH, Lee RC, Liu CS et al. “The Tc-99m MAA Imaging Predicts the Response of Yttrium-90 Radioembolization for Hepatocellular Carcinoma with Portal Vein Thrombosis”, 11th



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Congress of the World Federation of Nuclear Medicine and Biology, August 27~31, 2014, Cancun, Mexico.

- Lin KH, Wang SJ, Wang LW et al. “Reduction of Tumor Uptake on Interim 18F-FBPA-PET Predicts the Therapeutic Response of Boron Neutron Capture Therapy”, 16th International Congress on Neutron Capture Therapy, June 14~19, 2014, Helsinki, Finland.
- Lin KH, Lee RC, Liu CS et al. “The Value of Whole-body FDG-PET/CT in Detection of Extrahepatic Metastases in Hepatocellular Carcinoma Patients Treated with Yttrium-90 Radioembolization”, Annual Congress of the European Association of Nuclear Medicine, October 27~31, 2012, Milan, Italy.
- Lin KH, Liu RS, Wang SJ et al. “Pros and Cons of Evaluation of Mediastinal Lymph Nodes Metastases Of Esophageal Cancer By PET/CT In The Endemic Area Of Granulomatous Disease”, 2012 Society of Nuclear Medicine Annual Meeting, June 9~13, 2012, Miami, U.S.A.
- Lin KH, Liu RS, et al. “The Value of Tumor Shadow Disappearance Rate on Integrated PET/CT in Evaluation of Solitary Pulmonary Nodules with Low Glucose Metabolism”, 2011 Society of Nuclear Medicine Annual Meeting, June 4~8, 2011, San Antonio, U.S.A.
- Lin KH, Lee RC et al. “Evaluating Response to Yttrium-90 Radioembolization in Hepatocellular Carcinoma with FDG-PET/CT: Based on PERCIST Criteria”, Annual Congress of the European Association of Nuclear Medicine, Oct. 9~13 2010, Vienna, Austria.
- Lin KH, Lee RC et al. “Impact of Early PET Response in



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Predicting the Outcome of Liver Malignancies After Yttrium-90 Radioembolization”, Imaging 2010, June 8~11 2010, Stockholm, Sweden.

- Lin KH, Liu RS et al. “Evaluating Yttrium-90 Microsphere Treatment Response of Liver Metastases: PERCIST Versus RECIST”, 13th Asian Oceanian Congress of Radiology, March 20~23 2010, Taipei, TAIWAN
- Lin KH, Liu RS et al. “Evaluation of Response to Yttrium-90 SIRT in Hepatocellular Carcinoma with Dual-Tracer PET/CT Imaging: Initial Experience”, 2009 Radiologic Society of North America Annual Meeting, Nov 29~Dec 4 2009, Chicago, U.S.A.