

CiC 2月創新線上課程

課程主題：New Radiation Treatment Modality for Solid Cancers—Carbon-ion Therapy

課程講師：腫瘤醫學部 放射腫瘤科 康鈺攻醫師

主持人：CiC委員-口腔醫學部吳政憲科主任

課程時間：111/2/23(三) 12:10-13:00

課程摘要：

Cancer is the leading cause of death in Taiwan in recent 40 years. Radiation therapy is an important treatment option for cancer treatment. Although the prognosis of most solid cancers got better gradually, there is still a lot of room for improvement. Carbon-ion therapy is a new radiation modality, which has a lot of advantages in physics and radiobiology. Carbon-ion therapy could reduce the dose of normal tissue due to the characteristics of “Bragg peak”, and could decrease the risk of second malignancy compared to photon therapy. Because Carbon-ion therapy is a high linear energy transfer radiation, it is also effective in hypoxia microenvironment, and showed better treatment result on aggressive and radioresistant tumors. Carbon-ion therapy is also suitable for hypofractionation treatment, and could induce more immunogenic effect and reduce the metastatic status of cancer cell in biological experiment. Carbon-ion therapy is a promising therapy in lung, liver, pancreatic, recurrent colorectal, sarcoma, prostate, head and neck, and other solid cancers. The clinical trial of Carbon-ion center in Taipei Veterans General Hospital will be started in July, 2022, and we believe Carbon-ion therapy would play an important role in the future treatment of solid cancers in Taiwan.



➤ 現職

臺北榮民總醫院腫瘤醫學部放射腫瘤科 主治醫師
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臺北榮民總醫院腫瘤醫學部放射腫瘤科 住院總醫師

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➤ 醫療專長

肺癌、婦科腫瘤、生殖泌尿道腫瘤、兒童腦瘤、成人腦瘤、
頭頸癌、腸胃道腫瘤、強度調控放射治療、立體定位身體放
療（SBRT、SABR）、緩和性放射治療、近接放射治療、粒子
放射治療

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