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Dr Yu-Fen Huang is a neurosurgeon at Taichung Veterans General Hospital, specializing in radiosurgery and the management of brain tumors. She is board-certified in general and neurosurgery and also serves as a clinical instructor at the National Defense Medical Center. Her research interests focus on the genetic expression and treatment of brain tumors, with a particular emphasis on Tumor Treating Fields (TTFields). She is dedicated to integrating innovative therapies to improve patient outcomes in glioblastoma treatment.

Topic: Tumour Treating Fields Therapy for Glioblastoma

Despite advances in cancer treatment, prolonging survival and improving quality of life remains a challenge. Tumor Treating Fields (TTFields) offer an innovative approach by using low-intensity, intermediate-frequency electric fields to disrupt cancer cell division. This non-invasive therapy, administered via a portable device with transducer arrays, has been FDA-approved for glioblastoma (GBM) since 2011 and for malignant pleural mesothelioma (MPM) since 2019. Clinical evidence from pivotal trials, such as EF-14 and EF-11, shows significant improvements in progression-free and overall survival for newly diagnosed and recurrent GBM when TTFields are combined with standard therapies. This presentation will explore the mechanism, key findings, and potential future developments, including combinations with immunotherapy, providing insights into TTFields as a promising therapeutic approach in neuro-oncology.