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| P4 | 31 Mar | 8:30-9:15 | Chi 中 |
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| Title of presentation演講題目 | Enablement and Activity Monitoring in Occupational Therapy After Stroke: Linking Technology and Life Functioning”作业治疗的卒中康复与活动监测：科技与生活功能 |
| Abstract / ppt摘要 / 幻燈 | There is an increasing awareness about the importance of translating basic and clinical study findings into practice for establishing the value and applicability of technologically based modalities in personalized stroke rehabilitation. The National Institutes of Health (NIH) recently published a Research Plan on Rehabilitation that provides a set of research priorities to guide the field over the years of 2017 to 2022. This research plan provides a list of six priority areas of research and development, including technology use and development. Stroke rehabilitation research and practice is multifaceted. Herein, we highlight advances in technological innovations in rehabilitative therapy (e.g., robotic therapy and accelerometers for activity monitor) with emphasis on the relevance of technology for humanistic care. To avoid over-generalized practice, we have studied the effects of integrative, multimodal interventions that focus on defining the optimal dosing of rehabilitative therapy to improve functional recovery from stroke. This presentation will highlight our study that compared the merits of unilateral and bilateral upper-limb motor rehabilitation after stroke. The talk will provide a guiding framework of stroke rehabilitation, based on mechanically-aided training and functional enablement, for organizing the evidence of treatment effects that pertain to voluntary movement and activities of daily living in real-life situations. The framework may facilitate evidence-based decision making and guide the development of rehabilitative therapy for individualized patient care. |