

Optimizing prophylactic cranial irradiation for patients with lung cancer

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Propositions

1. Thoracic twice-daily radiotherapy may be replaced by once-daily radiotherapy for patients with small-cell lung cancer in China. – This thesis, Chapter 2.

2. Compared with conventional prophylactic cranial irradiation (PCI), hippocampal avoidance-prophylactic cranial irradiation (HA-PCI) does not improve self-reported cognitive functioning and quality of life in patients with small cell lung cancer. Adding neuroprotective agents such as memantine might enhance the benefit of HA-PCI. – This thesis, Chapter 6.

3. We do not have cognitive tests that capture the whole complexity and dynamics of the human mind. – This thesis, Chapter 7.

4. Cognitive impairment is dynamic and can be classified into four types: sustained, reversible, recurring, and alternating. – This thesis, Chapter 8.

5. To cure sometimes, to relieve often, to comfort always. – Edward Livingston Trudeau.

有时去治愈，常常去帮助，总是去安慰。—— 爱德华·利文斯顿·特鲁多

6. 德不近佛者不可为医，才不近仙者不可为医。——明·裴一中《言医·序》

Those without a moral compass that is close to Buddha are not qualified to be a doctor; those without talents are close to immortals are not qualified to be a doctor. – Yizhong Pei (Ming Dynasty), The preface of *About Medicine*.

7. Experts worldwide might be duplicating unnecessary work to develop various of guidelines. Better international collaboration should be made to save energy and resources. More efforts should be devoted to solving the controversial or unknown problems. – Haiyan Zeng, Journal of the National Cancer Center. 2022;2:113-25.

8. Personalized prophylactic cranial irradiation (PCI) should be administered to patients who are at high risk to develop brain metastases (BM). – This thesis, Chapter 1.

9. 穷则独善其身，达则兼济天下。——《孟子》

Cultivate yourself morally and spiritually when obscure, and dedicate yourself to the wellbeing of society when established. – Mencius.

10. Be lenient and grateful. You never know what happens to others. – Haiyan Zeng.

11. Life is a gift, enjoy it. – Haiyan Zeng.