

**QUAH-1: Boron Neutron Capture Therapy for Patients in Singapore –
Challenges Faced and Implications for the Future**

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Boron Neutron Capture Therapy (BNCT) is a state-of-the-art binary treatment that can potentially deliver extremely high doses of radiation selectively to cancer cells while sparing adjacent normal cells. Despite numerous studies into its efficacy has shown promising results in patients with disease deemed incurable with current medical technology, such as those with inoperable locally advanced and/or recurrent glioblastoma or head and neck cancers, BNCT is still not a widely used therapeutic option.

One biggest impediment is that facilities that provide BNCT is not widely available globally. On the other hand, patients who will benefit from BNCT can be found across the globe. As such, for these patients to receive BNCT, they will need to travel to other countries to be treated.

Since 2018, a total of six patients from Singapore went to Taiwan for BNCT. Three of them succeeded in receiving BNCT. All of them faced various obstacles. We shall elaborate about their challenges and how that has helped shaped workflow between Singapore and Taiwan. We hope our account will help other departure and destination countries as more patients seek out BNCT in the future. At the same time, we will also highlight lots of areas where more needs to be done to promote the widespread use of BNCT.