To improve access to PBT, the South Australian Health and Medical Research Institute (SAHMRI) submitted an application to the Medical Services Advisory Committee (MSAC) including a cost utility analysis (CUA) comparing PBT with PRT to treat specific pediatric/ adolescent and young adult (AYA) and rare adult tumors.

Methods: A systematic review identified 28 comparative, mostly realworld studies to support the conclusion that PBT has superior safety and non-inferior efficacy to PRT in the requested indications. The key challenge for the CUA was to quantify the cost and quality of life implications of the superior safety profile across a wide range of indications with a limited comparative evidence base. A simple lifetime decision analytic model was developed which modeled the rates, costs and utilities associated with relevant toxicities. The complications of radiotherapy are often chronic and included secondary malignancies, visual impairments, endocrine dysfunction, dysphagia, hearing loss and intellectual disability. Some of these toxicities are only applicable to patients with cranial cancers. Therefore, the event rates applied in the evaluation were adjusted to account for the proportion of patients within each population estimated to have extracranial cancers.

Results: When results in the adult and pediatric/AYA populations were weighted across the expected utilization of PBT (34% adults, 66% pediatric/AYA) in each population, PBT was dominant relative to PRT.

Conclusions: In November 2020, MSAC recommended funding PBT in specific populations at high risk of long-term side effects from PRT. To address uncertainties around the evidence base, MSAC further requested the following:

- All patients receive comparative photon/proton plans to determine eligibility
- A national registry is established for patients treated with PBT.

PP76 From Hospital-based Health Technology Assessment (HTA) To Treatment Decision: What Decisions Actually Result After HTA In A Resource Constrained Environment?

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Introduction: The Northern Region Clinical Practice Committee (NRCPC) conducts hospital-based health technology assessments (HTA) to provide advice to hospital managers regarding both the implementation of new technologies and the configuration of existing services. To assist in the comparison of dissimilar health technologies applied across different disciplines and different hospitals, the NRCPC developed a prioritization tool. This abstract reports the use of the tool over the 17-year period that the committee has been in operation.

Methods: The score given to each HTA depends on cost-utility, predicted health improvements and the quality of evidence. In addition to the scoring tool, editorial notes are provided to contextualize the agreed score and to explain the NRCPCs interpretation of the evidence.

Results: Most of the time hospital managers have made decisions concordant with the recommendations of the NRCPC; submissions are recommended to be implemented, declined, or receive interim approval with data collection. The latter often occurs when there are uncertainties about efficacy, but no (or very few) safety concerns, or where there are uncertainties about whether the proposed costs are reproducible in the hospital setting. In these cases, management responses often require submitters to undertake a limited number of cases and collect data for audit over a one-to two-year period. Lowscoring submissions are often declined, whereas high-scoring submissions have not been declined to date. The interim approval (with data collection) strategy has had variable outcomes based on the willingness of the implementing clinicians to collect accurate data about both costs and outcomes. From 2005 to 2022, the NRCPC received 146 submissions. This poster reports graphical representations of the decisions made over the NRCPCs period of operation. Conclusions: The NRCPC scoring tool has been successful to date in providing a framework for decision makers to allow consistent, unbiased and objective assessments of dissimilar technologies. Prioritization tools in hospital-based HTA are beneficial to decision makers in hospital settings.

PP79 Publication Trends Of Network Meta-analyses In Europe And Asia: A Focus On Cardiovascular Disease

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Introduction: The objective of this research was to compare trends in publications of network meta-analyses (NMAs) in cardiovascular diseases (CVDs) in Asia-Pacific (APAC; China, Japan, Singapore, South Korea, Thailand) and Europe (United Kingdom [UK], Germany, France, Spain, Italy), with a focus on volume, collaborations and methods.

Methods: Freely available NMAs assessing pharmacological or surgical interventions for CVD in terms of mortality or major adverse cardiovascular events, published in 2012 or later, by authors affiliated with institutions in the target countries were identified via MEDLINE and Embase. CVDs were grouped using the International Classification of Diseases, Tenth Edition (ICD-10).

Results: Across the 193 publications identified, heart diseases such as atrial fibrillation, aortic stenosis and heart failure (ICD-10 I30-I52) were the most common indications reported (38%). The majority of publications involved authors in APAC countries (63%) and 40% from Europe. Cumulative numbers of publications from APAC surpassed those from Europe from 2018 onwards. Authors were