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Conclusions: It is important to identify the priority areas for stakeholders as part of the topic nomination process, account for analytic capacity when setting the number of topics for HTA, establish mechanisms to allow proponents to conduct HTAs based on the HTA Council's methodological standards, and proactively work with the national regulatory agency on horizon scanning and early HTA. We also recommend efficient monitoring, evaluation, and updating of the Philippine HTA guidelines so that they are more responsive to the needs of the healthcare system and the Filipino people.

## OP70 Treating Patients With Hormone-Sensitive Cancer On Endocrine Therapy With Denosumab (Prolia®): A Systematic Review And Network Meta-Analysis

Konstance Nicolopoulos, Magdalena Ruth Moshi (magdalena.moshi@surgeons.org), Danielle Stringer, Ning Ma, Mathias Jenal and Thomas Vreugdenburg

Introduction: Patients receiving endocrine therapy for hormone-sensitive cancers, such as men with prostate cancer (MPC) on hormone ablation therapy (HAT) and women with breast cancer (WBC) on adjuvant aromatase inhibitor therapy (AAIT), have an increased risk of developing osteoporosis. The aim of this study was to compare the safety and effectiveness of denosumab (Prolia\*) with selective estrogen receptor modulators (SERMs) (raloxifene and bazedoxifene), bisphosphonates (zoledronate, ibandronate, alendronate, and risedronate), and placebo for the treatment of osteoporosis in patients receiving endocrine therapy for hormone-sensitive cancer.

Methods: Systematic literature searches were conducted in three biomedical databases (PubMed, the Cochrane Library, and Embase) to identify randomized controlled trials (RCTs). Only RCTs that investigated MPC on HAT or WBC on AAIT allocated to denosumab, SERMs, bisphosphonates, or placebo were included. RCTs were appraised using the Cochrane Risk of Bias 2.0 tool. Frequentist network and pairwise meta-analyses were performed on predetermined outcomes of vertebral or nonvertebral fractures, treatment-related adverse events (AEs), bone mineral density (BMD), mortality, withdrawal due to treatment-related AEs, and serious AEs.

Results: A total of 14 RCTs (15 publications, 6,463 participants) were included. Relative to placebo, denosumab was found to prevent vertebral fractures in cancer patients receiving endocrine therapy. Moreover, denosumab, alendronate, and zoledronate increased femoral neck (FN) and lumbar spine (LS) BMD in MPC on HAT, compared with placebo, whereas denosumab, risedronate, and ibandronate improved LS and total hip BMD in WBC on AAIT. Similarly, denosumab and risedronate increased trochanteric BMD in WBC on

AAIT, compared with placebo. In WBC on AAIT, only denosumab increased FN BMD relative to placebo.

Conclusions: Denosumab was more effective than placebo in preventing vertebral fractures and improving BMD at the LS and FN in MPC on HAT, and in preventing vertebral fractures and improving FN, trochanteric, total hip, and LS BMD in WBC on AAIT. From a policy perspective, the continued reimbursement of denosumab needs to be reviewed.

## OP71 Road To Public Funding Of Cancer Codependent Technologies In Australia In The Last Ten Years

Yuan Gao (yuan.gao02@adelaide.edu.au), Mah Laka and Tracy Merlin

**Introduction:** In Australia, cancer codependent technologies (cCDTs) mostly comprise a biomarker targeting medicine and a companion diagnostic test (CDx). Health technology assessment (HTA) of cCDTs is carried out to inform funding deliberations on CDxs by the Medical Services Advisory Committee (MSAC) and on personalized medicine by the Pharmaceutical Benefits Advisory Committee (PBAC). To understand the strengths and weaknesses of this dual assessment mechanism, we studied the journey of cCDTs in getting funding support from the two committees since the introduction of the codependent technology evaluation framework

**Methods:** Public summary documents summarizing deliberations by each committee were reviewed from 2012 to 2022. Information was retrieved on the patient indication, date, biomarkers related to the tests, and PBAC or MSAC funding outcomes. The alignment of HTA decisions, time taken until dual funding approval (if approved), and the reasons for discrepant and negative decision-making were determined.

Results: From 2012 to 2022, a total of 26 cCDT applications were submitted to PBAC and MSAC, corresponding with 43 paired PBAC/MSAC considerations and 11 single committee considerations. Nonsmall cell lung cancer and programmed cell death ligand 1 were the most frequently nominated cancer and biomarker test, respectively. When a cCDT was submitted in the same decision round to both committees, 60 percent of funding decisions were aligned, reaching 73 percent when the considerations were made separately (resubmissions). Only 9 percent of considerations received polarized, where one committee supported and the other committee rejected funding. After multiple resubmissions, 73 percent of cCDTs obtained dual funding support after an average of 34.8 weeks, with considerations by PBAC and MSAC occurring an average of 2.3 and 1.9 times, respectively

**Conclusions:** Most cCDTs obtain funding support, but only after multiple resubmissions to PBAC and MSAC. Polarized decisions are rare. Reasons for rejection primarily relate to uncertain clinical benefit and an unacceptably high incremental cost-effectiveness ratio.