

The role of Docetaxel in non-castrate resistant metastatic prostate cancer: an evidence-based case report / Fakhri Rahman, Harrina Erlianti Rahardjo, Stefanus Cahyo Ariwicaksono, Hafizar Hafizar, Muhammad Gozali Arif Sembiring, Rendy Andika, Richman Patandung, Septiani Hidianingsih, Stevano Lucianto Hotasi

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Abstrak

**Aim:** to learn the role of docetaxel in non-castrate resistant prostate cancer patient.

**Methods:** literature search was conducted to find relevant study comparing the combination of docetaxel and androgen deprivation therapy (ADT) to ADT alone in non-castrate resistant prostate cancer using PubMed, Cochrane Library, Proquest, EBSCO, and Scopus database. Quality assessment of studies was done using Bond University Rapid Critical Appraisal of a Systematic Review.

**Results:** we found 494 studies from literature search, but only two studies were included in final selection. Based on validity assessment, we chose one study to be discussed further. This study showed that combination of docetaxel and ADT is better than ADT alone in regards of overall survival (HR 0.64; 95% CI 0.55, 0.75;  $p < 0.0001$ ; NNT=3), biochemical progression free survival (HR 0.63; 95% CI 0.57, 0.69;  $p < 0.0001$ ; NNT=2) and clinical progression free survival (HR 0.73; 95% CI 0.64, 0.84;  $p < 0.0001$ ; NNT=2). Benefit of docetaxel and ADT combination was especially seen in high volume disease (HR 0.67; 95% CI 0.54, 0.83;  $p = 0.0003$ ; NNT=3).

**Conclusion:** addition of docetaxel into ADT has beneficial effects in terms of overall survival and progression free survival in patients with non-castrate resistant metastatic prostate cancer.