

**PERBEDAAN KADAR *C-TERMINAL TELOPEPTIDA* (CTX) DAN KALSIUM
ANTARA AKSEPTOR *DEPOT MEDROXYPROGESTERON ASETAT* (DMPA)
DENGAN AKSEPTOR KONTRASEPSI NON-HORMONAL**

TESIS

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ABSTRAK

PERBEDAAN KADAR *C-TERMINAL TELOPEPTIDA* (CTX) DAN KALSIMUM ANTARA AKSEPTOR *DEPOT MEDROXYPROGESTERON ASETAT* (DMPA) DENGAN AKSEPTOR KONTRASEPSI NON-HORMONAL

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Depot medroxyprogesteron asetat (DMPA) adalah kontrasepsi yang mempunyai efek terhadap penurunan kepadatan tulang. Penurunan kepadatan tulang tingkat lanjut dapat menyebabkan osteoporosis. Penelitian ini untuk mengetahui perbedaan kadar *C-Terminal Telopectida* (CTX) dan kalsium antara akseptor *depot medroxyprogesteron asetat* (DMPA) dengan akseptor kontrasepsi non-hormonal.

Penelitian ini bersifat *observasional* analitik dengan pendekatan *cross sectional comparatif* terhadap 22 orang akseptor *depot medroxyprogesteron asetat* dan 22 orang akseptor kontrasepsi non hormonal. Pemilihan sampel dilakukan secara *consecutive sampling*. Pemeriksaan kadar CT dengan metode *Enzyme Linked Immunosorbent Assay* (ELISA) dan kadar kalsium dengan *Calcium Arsenazo* (ELITech). Analisa data dengan uji t tidak berpasangan.

Rerata kadar CTX dan kalsium pada akseptor DMPA dan kontrasepsi non hormonal adalah $2,36 \pm 1,35$ ng/ml vs $1,80 \pm 1,09$ ng/ml ($p = 0,119$) dan $9,33 \pm 0,53$ mg/dl vs $9,48 \pm 0,53$ mg/dl ($p = 0,380$).

Kesimpulan kadar CTX dan kalsium tidak ada perbedaan antara akseptor *depot medroxyprogesteron asetat* (DMPA) dengan akseptor kontrasepsi non hormonal.

Kata kunci : *C-Terminal Telopectida* (CTX), kalsium, *Depot medroxyprogesteron asetat* (DMPA), kontrasepsi non hormonal

ABSTRACT

The Differences between C-Terminal Telopeptide (CTX) and Calcium Levels in Acceptor Depot Medroxyprogesteron Acetate (DMPA) and Non- Hormonal Contraceptive Women

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Depot medroxyprogesteron acetate (DMPA) is a contraceptive that has an effect on decreasing bone density. A decrease in advanced bone density can cause osteoporosis. This research is to find out the differences between C-Terminal Telopeptide (CTX) and calcium levels between depot medroxyprogesterone acetate (DMPA) acceptors and non-hormonal contraceptive acceptors.

This study is an analytic observational with a comparative cross sectional approach to 22 medroxyprogesterone acetate depot acceptors and 22 non hormonal contraceptive acceptors. Sample selection by consecutive sampling. CTX examination was carried out using Enzyme Linked Immunosorbent Assay (ELISA) and calcium methods with Calcium Arsenazo (ELITech). Data analysis with unpaired t test.

The mean CTX and calcium levels in DMPA acceptors and non hormonal contraceptives were 2.36 ± 1.35 ng / ml vs. 1.80 ± 1.09 ng / ml ($p = 0.119$) and 9.33 ± 0.53 mg / dl vs 9.48 ± 0.53 mg / dl ($p = 0.380$).

Conclusion of CTX and calcium levels there was no difference between depot medroxyprogesteron acetate (DMPA) acceptors and non-hormonal contraceptive acceptors.

Keyword : C-Terminal Telopeptida (CTX), calcium, Depot Medroxyprogesteron Acetat, non hormonal contraceptive.