

# PENGARUH PEMBERIAN DOSIS BERULANG DEKOK DAUN JAMBU BIJI MERAH (*Psidium guajava* L.) TERHADAP KUALITAS SPERMATOZOA TIKUS PUTIH (*Rattus norvegicus* var *wistar*) JANTAN

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Oleh: ANTIN DESI RAHMAWATI ( 03330058 )

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This age, Family Planning Program, especially in Indonesia directed only to woman. Man who was also the part of Family Planning Program had forgotten. Man role in Family Planning is so important since husband side is dominant in considering family policy (Man & Lutwark Mann, 1981). One effort to increase man role in Family Planning program is by looking for male contraception with a little bit side effect (Prajogo, 2003). The research aimed to identify and prove the effectiveness of repeated dosage bent Red seed rose-apple (*Psidium guajava* L) leaf to the quality of male white rat (*Rattus norvegicus*).

The research was True Experiment (The posttest Control Group Design), a research with repeated treatment and control treatment. Population in this research was male white rat (*Rattus norvegicus*) from UNAIR Surabaya, 3 months old and 200 gr heavy. Sample in this research were 20 male white rat Strain Wistar, divided into 4 groups, each consisted of 5 repeat.

The research showed that in 6 gram concentrate which gave the most effective influence to the quality of male white rat spermatozoa which showed by the motility and livability decreasing, while to the increasing of abnormality quality and spermatozoa mortality. The research has proven that repeated dosage of bent red seed rose-apple has effective influence to the quality of spermatozoa used as anti-fertility, especially active substance in the bent red seed rose-apple leaf, it was flavonoid (polyphenol), tanin (psidiatanin), quercetin, alcoloid, atsiri oil, oleanolic acid and beta sitosterol.