

Influence of *Curcuma xanthorrhiza* Roxb. and Its Combination with *Alpinia galanga* Linn. and *Phyllanthus niruri* Linn. toward Mice Body Weight

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INTRODUCTION

Many people with eating pattern disorder including anorexia, approximately 3% of female population in the world also low of appetite in children has produces the state of appetite drug become important. *Curcuma xanthorrhiza* Roxb. is one of Indonesian native herbal medicine well known as temulawak. *C. xanthorrhiza* Roxb. is found both wild and cultivated in the Malay Peninsula and Java. An infusion is taken by native women to promote lactation. The utilization of *C. xanthorrhiza* Roxb. combined with *Alpinia galanga* Linn. (lengkuas) and *Phyllanthus niruri* Linn. (meniran) has become popular as a traditional mix for appetite drug. The purpose of this research is to find out the effect of *C. xanthorrhiza* Roxb. and its combination towards mice's body weight shown by the difference of average mice body weight between control and group given the *C. xanthorrhiza* Roxb. and its combination.

These days, many pharmacy industries produces *appetite drug* with *C. xanthorrhiza* Roxb as one of its ingredients. Appetite drug is also being used in the medication of ingestion pattern disorder e.g. anorexia patient. A research says that approximately 3% of women in the world have suffered from ingestion pattern disorder. Anorexia is a condition where the presence of appetite is no longer exists or lost.

Beside of its utilization as one of ingredient for appetite, today *C. xanthorrhiza* Roxb remain being consumed traditionally, in form of single *C. xanthorrhiza* Roxb or combination with *A. galanga* Linn. and *P. niruri* Linn. as a appetite traditional drug .

The previous research which observing the effect of *C. xanthorrhiza* Roxb on appetite is limited in its effect on a primary anorexia patient. The obtained result shows that *C. xanthorrhiza* Roxb may improve the appetite on primary anorexia patient with a dose of 50 mg *Curcuma xanthorrhiza* Roxb powder before night sleep for 35 days.

The purpose of this research is to compare the effect of single *C. xanthorrhiza* Roxb and its combination with *A. galanga* Linn. and *P. niruri* Linn. on mice body weight.

METHOD

This research is using the Complete Random Design which is comparative with the scope of actual experimental laboratory research. This research is categorized as a prospective longitudinal research.

The treatments consist of three groups with mice (n=6). The control group was given with aquades. Test group I was given with *Curcuma xanthorrhiza* Roxb Infusion of 156 mg doses; Test group II was given with an infusion combined of 156 mg *Curcuma xanthorrhiza* Roxb, 19 mg *Alpinia galanga* Linn. and 30 mg *Phyllanthus niruri* Linn.