

ABSTRACT

Stroke is a disease caused by a narrowing of the blood vessels in the brain so that the flow of blood and oxygen to the brain is hampered or even stopped. The effects of a stroke include interfering with memory, causing memory loss, reducing the quality of life of sufferers as well as family life and those around them (Chrisanto et al, 2022). Cases of stroke are very high in Indonesia. Various efforts have been made to reduce stroke cases in Indonesia, one of which is by administering drugs made from chemicals. However, if these chemical drugs are consumed for a long time, they will have a bad impact on kidney health. One alternative to deal with this is to make a combination derived from natural ingredients, namely clover (*Marsilea crenata*) and kecombrang flowers (*Etlingera elatior*) which are combined because they have the same properties so as to provide a synergistic effect and increase effectiveness in treating stroke. Therefore, we conducted a study to determine the rotarod test scores of post-induction stroke male rats with BCCAO that were not given a combination of clover extract (*Marsilea crenata*) and kecombrang flower extract (*Etlingera elatior*) and the rotarod test scores of male rats after stroke induction with BCCAO. combination of clover extract (*Marsilea crenata*) and kecombrang flower extract (*Etlingera elatior*) and to determine the composition of the combination of clover extract (*Marsilea crenata*) and kecombrang flower extract (*Etlingera elatior*) which is the most effective and has the potential to be formulated into nanoparticle tablets for stroke treatment. The results of the research we have done are that the average rotarod test score of rats after stroke induction with the BCCAO method without being given a combination of clover extract and kecombrang flower extract is 51 seconds. Meanwhile, the average scores of the rotarod test in post-stroke induced rats with the BCCAO method and given a combination of clover extract and kecombrang flower extract were 68 seconds and 76.67 seconds. This proves that clover extract and kecombrang flower extract have an effect on the motor recovery of post-stroke rats, and the combination of clover extract and kecombrang flower that is most effective and has the potential to be formulated into nanoparticle tablets is dose II (clover extract: kecombrang flower extract = 2:1) . This can happen because dose II contains more phytoestrogens derived from clover.

Keywords: Stroke, Clover, Kecombrang Flower, Rotarod test