

**APPLICATION OF SPHERICAL GRIP ASSISTIVE ROM TO
INCREASING UPPER EXTREMITY MUSCLE STRENGTH WITH NON-
HEMORRHAGIC STROKE IN KARANGANYAR HOSPITAL**

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ABSTRACT

Background ; World Health Organization (WHO) prevalence in 2022, there are 12,224,551 new cases each year and 101,474,558 individuals currently living have had a stroke. The death rate due to stroke is 6,552,724 people. One of the rehabilitative efforts for stroke sufferers is the Range of Motion, a form of rehabilitation given to stroke patients. **Objective** ; Knowing the results of the implementation of the application of active assistive spherical grip ROM to increase upper limb muscle strength with non-hemorrhagic stroke in Karanganyar Hospital. **Method** ; This research uses case studies using descriptive research methods. Implementation was carried out for 3 consecutive days where 2 treatments were carried out a day. **Results** ; Prior to the implementation of the active assistive spherical grip ROM, a check on the muscle strength scale was carried out with a scale of 3, on the first day the respondent Mr. S has a power scale as well as for Mr. M. After the implementation of the assistive spherical grip active ROM on the last day, Mr. S and Mr. M has results that tend to increase, namely the muscle strength scale of 4. **Conclusion** ; There was a development and increase in the scale of muscle strength between before and after the implementation of active ROM assistive spherical grip in 2 respondents with a diagnosis of non-hemorrhagic stroke in the Mawar 1 ward, Karanganyar Hospital.

Keywords ; Non-Hemorrhagic Stroke, Muscle Strength Scale, Assistive Active ROM, Spherical Grip.