# THE EFFECTS OF PENCAK SILAT ACTIVITY ON THE PHYSICAL FITNESS OF CHILDREN WITH MENTAL RETARDATION

JUHANAINI, YUYUS SUHERMAN, HANU RESINURJATI

Special Education Departement Indonesia University Of Education & Special School For Children With Mental Retardation

BANDUNG, INDONESIA

# ABSTRACT

The aim of study was to investigate the effects of Pencak silat\*on nhysical fitness of children with mental retardation. The subjects physical nunes of cultured with mental retardation. The subjects of this study were 12 children with mental retardation (7 boys and girl with age range from 11 to 16 years old who attend special school for mental retardation (SPLB-C YPLB) in Cipaganti Bandung Indonesia. The study was conducted using the pre test Bandung Indonesia. The study was conducted using the pre test poor test experimental design. Physical Hornes factors include speed, endurance, agility, esychand coordination, esychost coordination, arm strength, leg strength and flexibility. The research finding shows that there was significant different between pretest posttestscores of the hphysical littness factor (PC + 0.08.). This with suggest that Pencok salt can increase the physical fitness of children with mental retardation.

Key word : Physical Fitness, Pencak Silat, Mental Retardation \*Pencak Silat is a form of tradition martial arts which includes

### INTRODUCTION

Efforts to help mentally retarded children to achieve physical fitness are very much needed because physical condition is important to support everyday activities. Physical fitness relates closely with physical condition, meanwhile the physical condition depends on physical training. With optimum physical condition, hopefully the mentally retarded children will be able to do their physical duty without casing extreme tiredness, have more self confidence, and more prepared to face life challenges.

At the school for Mentally Retarded Children YPLB in Bandung. At the school for Stendard Recarded Children who show indications of week physical condition, get tired easily, lack of movement, obesity problem, as referred by Cratty, 1974; Rarick, et al, 1976; performance of mildly retarded children in psychomotor areas such as: static balance, dynamic balance, body perception, gross agility, locomotors agility, throwing, and tracking are inferior to those of non handicapped children. Besides, it also stated that the physical fitness and motor profiency are bellow normal. Thus, mentally retarded children need forms of activity which can improve or maintain level of fitness required.

Pencak silat activity is a form of Indonesian cultural heritage relicas, mad activity is a joint of indoorestant control in entrage, which contain divine values, athletic values, as well as aesthetic values in the form of structurally arranged, harmonious, balance and rhythmic movement. The heautiful movement of Pencak silat is often displayed in cultural activities such as marriage ceremony icrumcision ceremony, and thanksgiving which are familiar to the Indonesian community. The athletic value of Penex silat as a form of martial art depends upon interrelationship of motoric ability, both gross motoric and fine motoric. Based on the above explanation Pencak silat is very interesting to be studied to concretely learn whether Pencak silat activity contributes positively to improve the physical fitness of mentally retarded children. This factor is very important as one of school effort to improve service for the students.

# METHODOLOGY

Subjects
The subjects were 12 children with mentally retarded. Their age range from 11
to 16 years ald who attend the special school for mentally retarded (SPLB-C)
Clipagant, in Bandung Indonesia. This study was conducted using pre test post
test experimental design.

### Procedure

The research subjects were given pre test that covered speed, endurance, agility, eye-hand coordination, eye-foot coordination, arm strength, leg strength and facilities.

Furthermous release budgets were given Penzek silat activities for area senselser, two or three times a week lite two hours. For activities was give requestly, the subjects followed any amounted fingletey of the scalar was all as yellow researches. The activities were designed to comprise of stranting up including saids stretch, maning and dynamic stretch. For our activities which was Penzek silat Finally the closing activity was static stretch.

After the subjects had attended the Percak silat activities during one senester they were given post-test. To measure the level of physical fitness both in pretest and post-test the following tools and procedure were used:







# PENCAK SILAT ACTIVITY BY CHILDREN WITH MENTAL RETARDATION





















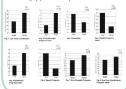




## RESULT

Based on the statistical analysis t-test of the physical fitness components, it is shown that component of speed, endurance, agility, eye-hand coordination, eye-foot coordination, arm strength, leg strength ad flexibility differ significantly in pre-test and post-test (n=12, df=11, p<0.05).

The study result suggest that the Pencak silat activities have positive effects on the physical fitness of with mentally retarded children in eight physical fitness components.



# DISCUSSION

After following Pencak. Silat activities the physical fitness degrees children with mental returdation has significantly increase (P<-0.4%), it means the activities give positive effect on the retarded children physically.

The result of this research is that, Pencak silat activity which given to mentally the result of the research is full, retacks and acceptantly which given in measure tractified dillatine accepts to the component of physical flutes as the expert suggest it is relevant to the theory by Sielenting (1991; 157), Davis at 1995; 115. Taken from Chapter II, one of the AAHPERO (1999; 7) The components of (health related) physical flutes are earthic capority conference/interrogentative contamere, muscular, strength, muscular endurance, flexibility, and body exemposition).

The physical finess of dilibers with meath retrutifies can be increased because of the mement of possel, that which foces on mentic trengly and strengther upper part of the body (shoulder mucch, band, and arm), middle part of the body (shoulder, masch, bed, and side body), as well as lover part of the body (shoulder, masch, band, and arm), middle part of the body (shoulder, bed). The part of the princip series (response) from [17], and is the observed by the motion, specially the muscular stretching and the mementant of the joins. I can also increase speed, ugility, flexibility, of the naturaly component of physical filters.

According to the physiology theory by Santoso Gariwijsou (1997;55-88), the ability of ergosystems primer determine individual physical filmes, contain of the skaled system, which are novement of the joints, mescular system (the contraction of power quality and most endurater, system and secondary ergosystem which contains of betto-biller-limfullic system, respiration system and eartiful muscular system.

Whereas Supandi (1997: 33), the human can develop strength, speed, endurance only by their muscle. The statement means that order to develope the systems will need of those more physical excersice, and one of those activity is Pencak Silat.

The Puncia Slat activity give chance for the children with mental returbation to more activity in the basic movement. These basic movement are, edit sife usy partier of percask of the basic base based in below partier and percask of the based based based percask man stangel, one way (langles) basilage, minici movement (great mitrich, studinger rate) (skap passage), because of the studies, minici movement and based percask based by the based based by the based based based by the based based based by the based based

securior intonic protection cultural with antiferral maintain cardiamin. The research and support The Rarick, and colleaguess who said that Three 20 minute activity sessions each week can be effective in improving strength, cardiovascular endurance, flexibility, and other fitness components in the mildly and moderately retarded (Rarick, et al., 1976; Rarick & McQuillan, 1997 in Ronald W and Paul J, 1982).

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