

# Development of Korfball Basic Skills Test Instrument

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**Abstract.** Korfball is a sport similar to netball and basketball. This sport aims to throw the ball into a basket without a net mounted on a 3.5-meter (11.5-foot) high pole. This game uses techniques or skills that are not very different from basketball, namely passing, shooting, rebounding, etc. Mastery of this material will significantly help increase the effectiveness of the quality of regeneration of korfball athletes. Therefore, researchers want to make an instrument product that contains essential korfball skill test items. Korfball basic skill test instruments have previously been created in several regions in Indonesia, but the Korfball basic skill test is considered imperfect. The test to be developed is a set of basic korfball skill test instruments for adult players, including a shooting skill test, a passing skill test, a skill test to catch the ball from the basket (rebound), and a pivot skill test. Developing basic skill test instruments in korfball will contribute to players measuring basic korfball skills and knowing the development of basic skills and abilities. This study aims to determine the results of the development of the Korfball primary skills test instrument and to find out the results of the basic skills of Aceh Korfball athletes. The research method used is Borg and Gall's Research and Development (R&D) method, which uses ten steps/stages of research. The subjects of this study were ten small groups and 31 large groups. Data were collected using questionnaires and field test testees. Then, the data values were processed by calculating percentages. After collecting data by analysing the needs assessment, as much as 55.44% stated yes, and 44.56% said no. This product was continued based on the need assessment that had been carried out. Based on the data that has been generated and the products developed, it can be concluded that this development product is declared very much needed and can be continued at the next stage.

**Keywords:** korfball; basketball; netball.

## INTRODUCTION

Korfball is a ball sport similar to netball and basketball. It is played by two teams of eight players, with four female and four male players on each team. The goal is to throw the ball into a netless basket mounted on a 3.5-meter (11.5-foot) high pole. The sport was invented by Dutch school-teacher Nico Broekhuysen in 1902. There are about 500 clubs in the Netherlands, and over 90,000 people play korfball. The sport is also played in Belgium, Taiwan, and almost 70 other countries.

Korfball has been known in Indonesia since the pre-independence era before the youth oath in 1928. Korfball sports have also been officially competed in PON I in 1948 until PON IV in 1957 in Makassar. Many people do not know the track

record of this korfball sport. But in 2022, korfball was introduced in Aceh province and has officially become a new sport in Aceh under PKSI Aceh (Persatuan Korfball Seluruh Indonesia) Aceh Province, which was inaugurated on November 13, 2022, in the city of Banda Aceh by the Central Board of the Indonesian Korfball Association (PP PKSI) namely Lisa Rudianti, SH as general chairman.

As described above, it is clear that this korfball sport is new in Aceh province, where improving skills through sports coaching to produce outstanding athletes in the branch must be planned and implemented. To achieve this, novice players must first be trained in basic skills. Based on law no three year 2005 article 60 paragraph 1, what is meant by sports institutions in this provision is a body/institution or organisation that carries

out one or various sports activities in the context of sports coaching and development. In the province of Aceh, PKSI was only formed in 2022. Therefore, implementing korfball sports coaching must focus on implementing a regular training model. In this case, the following application must master material about korfball skill techniques. Mastery of this material will significantly help increase the effectiveness of the quality of regeneration of korfball athletes. Therefore, researchers want to make an instrument product that contains essential korfball skill test items.

## METHOD

Based on the problems studied, namely the Development of Korfball Basic Skills Test Instruments, this type of research is included in development research. According to [1], development research is a method used to produce specific products and test the effectiveness of these products. The authors [2] state that research and development (R&D) is used to develop or validate products in education and learning. The author [3] explains that development is a process or step to create a new product to improve existing products, which can be accounted for.

Researchers used research and development methods in this study, or Research and Development. In this development research, a procedural model is used because it is considered suitable for the development objectives to be achieved, namely, to produce a product and test the feasibility of the products produced. Where to accomplish these goals, they must go through specific steps that must be followed to make sure products.

## RESULTS AND DISCUSSION

The results of this study were obtained through needs analysis. After the research data collection stage, data processing was carried out from the raw data. This step is taken so the research data has a picture and draws conclusions.

Based on the comparison in the validity test, all the correlation values you provide are more significant than the critical value of the t-distribution for  $df = 8df = 8$  at the 0.05 significance level. This indicates that each correlation is statistically significant at the 0.05 significance level. Therefore, based on this analysis, we can conclude that the comparison between the corre-

lation values and the critical value of the t distribution for the degrees of freedom  $df=8df=8$  of the data you provided has shown statistical validity. This means that the relationship between the observed variables (those with significant correlation values) can be considered solid or relevant in the context of analysis.

Based on the reliability analysis output using Cronbach's Alpha above, a score of 0.990 was obtained, while the r-table was 0.602, so it can be said that the instrument developed is reliable. The instruments used in the study have a very high level of reliability. This indicates that the items in the instrument consistently measure the same concept or variable, and the responses given by participants are reliable. With Cronbach's Alpha of 0.990 and 0.997, we can be confident that the instrument can be appropriately used in data analysis and research.

*Needs Assessment Results.* Requirement analysis is a process to obtain information, modes, and specifications about a product to be developed based on user needs. Both parties, namely product users and product makers, are actively involved in this stage. Information from users will be a reference for designing the instrument development draft.

Development research is carried out with several stages before releasing a product. Researchers conduct a needs analysis stage to see if the product to be created benefits users. A needs analysis was carried out on Aceh Korfball athletes using the distribution of questionnaires regarding the Korfball basic skills test instrument. In the needs analysis, 54.44% referred to the statement that the skills test instrument was important. For this reason, the researcher believes that there is a need to develop a korfball essential skills test instrument so that athletes can explore the role of the korfball sport as an instrument development through the product that the researcher designed, namely the "basic skills test" in the form of a guidebook.

*Draft of Developed Product.* As a first step in developing Korfball basic skills test instrument development products, researchers designed a variety of basic skills assessments to improve the ability to regenerate athletes for the Korfball branch. The basic skills test model developed includes passing, shooting, rebounding and pivoting.

## CONCLUSIONS

Based on the data obtained, it can be seen that the product for developing this instrument has been stated as very much needed. As many as 55.44 % stated "Yes," while 45.56% of other respondents said "No." The product that will be produced is a guidebook. The needs analysis results declare this research very much needed and can be continued at the next stage.

The results of the validity test of the Korfball basic skills test instrument data using the factor test repeatedly show that the basic Korfball skills test measuring instrument can be valid (valid). Validity is the level of reliability and error of the measuring instrument used. The instrument is said to be valid, which means it shows that the instrument used to obtain data is valid or can be used to measure what should be measured [1].

The results of the data reliability test of the primary korfball skills test instrument using the test-retest test for stage 1 with stage 2, [1] "reliability can be done externally and internally. Externally, testing is done with test-retest (stabil-

ity), equivalent, and a combination of both ". The correlation test between stages 1 and 2 of each item shows the level of reliability of the constructed measuring instrument. This can be seen from the results obtained, which show the Cronbach Alpha value is greater than the r-table value, namely based on the reliability analysis output using Cronbach's Alpha above, a score of 0.990 was obtained, while the r-table was 0.602 so that it can be said that the instrument developed is reliable.

Based on the results of this research and development, the following can be suggested:

1 This korfball essential skills test instrument can be used as a reference when recruiting the next athlete in the korfball sport, making it easier for the coach to conduct an effective and sustainable training program.

2 Given the research and development results, the products of this skill test instrument can benefit the lives of athletes and coaches. It is recommended that subsequent researchers develop this product with a broader scope.

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