



Survey of North Sumatera Petanque Athletes' Achievement Motivation After PON XXI 2024 Aceh North Sumatera

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ABSTRACT

The purpose of the study was to determine the level of achievement motivation of North Sumatera Petanque athletes after PON XXI 2024 Aceh North Sumatera. This research has been carried out since April 2025. The population in this study were North Sumatera petanque athletes. The sample in this study were 20 North Sumatera petanque athletes. The instrument used in this study was an achievement motivation questionnaire which included aspects of intrinsic motivation and aspects of extrinsic motivation. The results of the study showed that the percentage achievement of North Sumatera Petanque athletes after PON XXI 2024 Aceh North Sumatera 20 athletes analyzed based on specifications when viewed from the percentage distribution there were 15 high category athletes of 75%, 3 medium category athletes of 10% and 2 low category athletes of 15%. The percentage achievement of the results of the intrinsic factor research was 0 athletes who were included in the very high category 0%, 18 medium category athletes of 90% and 2 low category athletes of 10%. With the results of the analysis, it can be shown that North Sumatran petanque athletes have moderate intrinsic motivation of 90% after PON XXI 2024 Aceh, North Sumatera. The percentage achievement of extrinsic factor research results is 4 athletes in the high category of 20%, 4 athletes in the medium category of 20% and 12 athletes in the low category of 60%. With the results of the analysis, it can be indicated that North Sumatran petanque athletes have low extrinsic motivation of 60% after PON XXI 2024 Aceh, North Sumatera.

Keywords: *Achievement Motivation, Intrinsic Aspect, Extrinsic Aspect, Petanque Athletes of North Sumatera.*

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INTRODUCTION

Achievements in sports have the power to elevate the dignity of a country in the eyes of the domestic and foreign community. If the current coaching system is planned and implemented effectively, sports achievements can be achieved. As a pioneer in advancing national sports achievements, sports coaching can be introduced at the regional and provincial levels. Each provincial sports organization is expected to pay more attention to each type of

sports organization and implement it professionally, methodically, and in an organized manner. Athletes are also required to have a healthy body and a positive mindset during training, matches, and in the community. This will help motivate them to achieve their goals. (Sari et al., 2022). The strong motivation within an athlete certainly influences their performance on the field during competition, as athletes with high drive tend to be more confident and resilient throughout the competition. An athlete's performance in matches that achieve the best results is the result of a combination of several elements, including physical factors, movement skills, technique, and training. In addition, psychological aspects such as personality, motivation, and self-confidence are also important elements that coaches, trainers, and physical education teachers must pay attention to.

Sports psychology is used to help develop athletes so they can show their best performance, as well as for gifted athletes to maximize their potential without hindrance from their personality aspects (Wismanadi, 2017). Every person basically has a drive to achieve their best potential. The power that drives human behavior towards the desired goal is known as motivation. Motivation is closely related to the character and spirit within an athlete to achieve success. Every athlete certainly has a different level of motivation. Some athletes have different spirits. There are athletes with high spirits, and some are lacking. An athlete who has a strong desire to achieve the best achievements is something that comes naturally within them (Clarasasti and Jatmika, 2017). According to (Suhartini & Rivaldo, 2022) achievement motivation is basically possessed by all individuals. According to Bornholt & Goodnow (1999), achievement motivation is defined as the drive to work diligently and enthusiastically, to continuously direct oneself towards goals, to gain dominance in challenging and difficult tasks, and to create a sense of achievement as a result.

Achievement motivation is a motivation that aims to gain recognition or avoid failure and is related to performance in situations that apply standards of excellence to oneself and others. As a manifestation of achievement motivation, a person will demonstrate hard work behavior, in the most possible way to regularly handle ideas objectively and independently, which reflects the mobilization of energy in achieving their goals (Doris Apriani Ritonga, Chairul Azmi, 2020). According to Selviana in (Muskanan, 2015) said that achievement motivation is the goal that athletes have to achieve. Meanwhile, according to Mc Chlelland in (Farradina, 2012) said that individuals who have high achievement motivation will have a sense of responsibility, and high self-confidence, be more persistent, more active in carrying

out tasks, have the desire to complete tasks well. McClelland's opinion (Dr. Sujarwo, 2011), achievement motivation, which is often known as the need to achieve, is the drive that drives people to succeed in competition or competition with various standards of perfection. Achievement motivation can be measured through motivational factors such as intrinsic motivation: personality, achievement, pleasure and extrinsic motivation: facilities, training methods, social, and rewards.

Meanwhile, petanque athletes, both individually and as a team, need high motivation to stay motivated after the competition. The need for strong motivation is part of the accuracy sport, which forces players to think more seriously (Riqky Ananda Putra, Rasyono, 2022). Although petanque is seen as the most relaxing sport, players must maintain full concentration while competing, because mistakes in throwing can cause them to lose their chance to win (Bayu Laksana et al., 2017). Therefore, in order for the team to be compact, players must practice and master the basic techniques of petanque. The sport of petanque consists of two categories of basic techniques, namely pointing and shooting (Natasya et al., 2024). In this case, pointing is throwing the ball with the intention of bringing it closer to the wooden ball or choconet, while shooting is throwing the ball to move the opponent's ball away from the wooden ball or choconet (Permadi et al., 2020).

According to (Abdullah et al., 2024), in the sport of petanque, there are several numbers that are competed. There are men's and women's triples, men's and women's doubles, men's and women's singles, men's and women's shooting, men's and women's mixed doubles, mixed triples 2 men 1 woman, and mixed triples 1 man 2 women (Okilanda et al., 2018). Even Petanque is a sport that requires manipulative skills (throwing) and visual object control, where athletes must throw the ball to land close to the jack to get points "(Irawan et al., 2019). Even the opinion of (Badaru et al., 2021) In the shooting competition numbers carried out at distances of 6 meters, 7 meters, 8 meters, and 9 meters with points that can be obtained 0 points, 1 point, 3 points, and 5 points for each successful shot.

METHOD

This study uses a descriptive method with a survey technique, namely by collecting data using a questionnaire distributed to North Sumatran petanque athletes. Sugiyono (2019: 126) defines population as a generalization domain consisting of items or subjects with certain quantities and attributes selected by researchers to be studied and then selected. Thus, 20 North Sumatran petanque athletes after PON XXI 2024 were used as the research population. While

the sample in this study was 20 athletes selected from the population using the total sampling technique. This data collection process was carried out by distributing questionnaires to all North Sumatran petanque athlete respondents via the Google form link. To manage the questionnaire data, the author uses percentage calculations. The percentage formula used is:

$$P = \frac{F}{n} \times 100\% \quad (\text{Dewi, 2009: 112})$$

Information :

P : the percentage sought

F : Raw data frequency

N : Required data quantity

100% : Fixed number

According to Azwar (2010: 163) to determine the score criteria using the Norm Reference Assessment (PAN) in the following table 1:

Table 1. Categorization Guidelines

No	Category	Score
1	Tall	$X \geq M+SD$
2	Currently	$M-SD \leq X < M+SD$
3	Low	$X < M-SD$

Information :

M (Mean Ideal) = $\frac{1}{2}$ (highest score + lowest score)

SD (Standar Deviasi Ideal) = $\frac{1}{6}$ (highest score – lowest score)

X = score can be achieved

RESULTS AND DISCUSSION

Result

Table 2. Frequency Distribution of Motivation Levels of Petanque Athletes in North Sumatra after PON XXI 2024 Aceh, North Sumatra

No	Classification	Value Interval	Frequency	Percentage
1	Tall	$X \geq 115$	15	75%
2	Curenntly	$98 \leq X < 115$	2	10%
3	Low	$X < 98$	3	15%
Amount			20	100%

Based on the results of the table and diagram above, it can be explained that the results of the motivation level of North Sumatran petanque athletes after PON XXI 2024 Aceh North Sumatera who entered the high category were 15 athletes, namely: Fa'id aqdas tamimi, Muhammad khairul rianto, Rudi irwanto, Nur akma aisyah, Rasya althof sembiring, Finalia sinulingga, Nosanta yeve br ginting, Yuyun danaty manullang, Erry havosan nababan, Epenetus giawa, Ayu Mutiara sari, Arif rahmadani, Taufan arif wahidin, Lia irmawati, Rohana seprida purba, by 75%. Those who entered the medium category were 2 athletes, namely: Muhammad dia and Trinalia Silalahi, by 10% and those who entered the low category were 3 athletes, namely: Cintami rahmadani jambak, Ade Yuniar and Mawardi nur malau by 15%. From the results of the level of achievement motivation of petanque athletes based on the medal achievements of PON XXI 2024 Aceh, North Sumatera, those who are included in the high category are those who won gold medals and those who are included in the medium category are those who won bronze medals and those who are included in the low category are those who won bronze medals.



Figure 1. Motivation level of petanque athletes in North Sumatera after PON XXI 2024 Aceh North Sumatera

DISCUSSION

Based on the research results obtained on the level of achievement motivation of North Sumatran petanque athletes after PON XXI 2024 Aceh North Sumatera, there are 20 athletes who are analyzed based on their categories. When viewed from the results of the table and diagram, the percentage that falls into the high category is 15 athletes, namely: Fa'id aqdas tamimi, muhammad khairul rianto, rudi irwanto, nur akma aisyah, rasya althof sembiring, finalia sinulingga, nosanta yeve br ginting, yuyun danaty manullang, erry havosan nababan,

epenetus giawa, ayu mutiara sari, arif rahmadani, taufan arif wahidin, lia irmawati, rohana seprida purba, by 75%. Those who are in the medium category are 2 athletes, namely: Muhammad Dia and Trinalia Silalahi, by 10% and those who are in the low category are 3 athletes, namely: Cintami Rahmadani Jambak, Ade Yuniar and Mawardi Nur Malau by 15%. From the results of the level of achievement motivation of petanque athletes based on the medal achievements of PON XXI 2024 Aceh, North Sumatra, those who are included in the high category are those who won gold medals, namely: Fa'id Aqdas Tamimi, Muhammad Khairul Rianto in the men's doubles, and those who are included in the medium category who won silver medals, namely: Muhammad Khairul Rianto, Rasya Althof Sembiring, Muhammad Dia, and Rudi Irwanto. The lower category that won bronze medals were: Finalia Sinulingga, Nosanta Yevi Br Ginting, Yuyun Danaty Manullang, Erry Havosan Nababan, Epenetus Giawa, Ayu Mutiara Sari, Arif Rahmadani, Taufan Arif Wahidin, Lia Irmawati, Rohana Seprida Purba, Trinalia Silalahi Cintami Rahmadani Jambak, Ade Yuniar and Mawardi Nur Malau.

The high motivation and drive in the study are based on intrinsic and extrinsic factors. Where the results of the study can be described as follows: Intrinsic factors are factors that come from within a person, which in the study are based on indicators: personality, achievement and pleasure. Based on the results of the study, there are 0 athletes in the very high category 0%, 18 athletes in the medium category 90% and 2 athletes in the low category 10%. With the results of this analysis, it can be indicated that North Sumatran petanque athletes have moderate intrinsic motivation of 90% after PON XXI 2024 Aceh North Sumatra. The second factor, namely extrinsic factors, is that which comes from outside where the study is based on indicators: Facilities, training methods, social and prizes. Based on the results of the study, there are 4 athletes in the high category 20%, 4 athletes in the medium category 20% and 12 athletes in the low category 60%. With the results of this analysis, it can be indicated that North Sumatran petanque athletes have low extrinsic motivation of 60% after PON XXI 2024 Aceh, North Sumatra.

CONCLUSION

Based on the results of research that has been carried out on the achievement motivation of North Sumatran petanque athletes after the XXI 2024 PON Aceh-North Sumatra, the following conclusions were obtained : Percentage achievement of achievement motivation of North Sumatra Petanque athletes after PON XXI 2024 Aceh North Sumatra 20 athletes analyzed

based on their categories when viewed from the percentage distribution there are 15 athletes in the high category of 75%, 3 athletes in the medium category of 10% and 2 athletes in the low category of 15%. Percentage achievement of intrinsic factor research results as many as 0 athletes who are included in the very high category 0%, as many as 18 athletes in the medium category 90% and 2 athletes in the low category 10%. With the results of this analysis, it can be indicated that North Sumatra Petanque athletes have moderate intrinsic motivation of 90% after PON XXI 2024 Aceh North Sumatra. Percentage achievement of extrinsic factor research results there are 4 athletes in the high category 20%, 4 athletes in the medium category 20% and 12 athletes in the low category 60%. With the results of this analysis, it can be indicated that North Sumatran petanque athletes have low extrinsic motivation of 60% after PON XXI 2024 Aceh, North Sumatra.

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REFERENCES

- Abdullah, A., Samsudin, S., Nasrullah, N., Mulyadi, M., & Irawan, E. (2024). The Influence of Imagery Training Methods on Pointing Accuracy Results in Petanque Athletes. *Champions: Education Journal of Sport, Health, and Recreation*, 2(1),19–24. .
<https://doi.org/10.59923/champions.v2i1.157>
- Badaru, B., Rachmat Kasmad, M., Juhanis, J., & Anwar, N. I. (2021). Effect of Accuracy and Muscle Strength Training on the Result of Shooting Throws in Petanque. *Jurnal Maenpo : Jurnal Pendidikan Jasmani Kesehatan Dan Rekreasi*, 11(1), 56.
<https://doi.org/10.35194/jm.v11i1.1213>
- Bornholt, L. J., and J. J. Goodnow. 199. "Cross-Generation perceptions of Academic Competence: Parental Expectations and Adolescent Self Disclosure. " *Journal of Adolescent Research* 14(4): 427-47.
<https://psycnet.apa.org/doi/10.1177/0743558499144003>
- Dr. Sujarwo, M. P. (2011). Motivasi Berprestasi Sebagai Salah Satu Perhatian Dalam Memilih Strategi Pembelajaran. *Jurnal.Uny.Ac.Id*,1–9.
<https://journal.uny.ac.id/index.php/mip/article/download/6858/5891>
- Doris Apriani Ritonga, Chairul Azmi, R. M. S. (2020). The Effect of Achievement Motivation

- and Self Confidence Towards Achievement of Wushu Sanda Athletes. 464(Psshers 2019), 413–418. <https://doi.org/10.2991/assehr.k.200824.099>
- Farradina, S. (2012). Motivasi Berprestasi Atlet Muda Dalam Menghadapi Pekan Olahraga Nasional Tahun 2012 Ditinjau Dari Kepercayaan Diri. *Psikologika*, 17(2008), 53–59. <https://doi.org/10.20885/psikologika.vol17.iss2.art6>
- Irawan, F. A., Fajar, D., Permana, W., Akromawati, H. R., Yang-tian, H., & History, A. (2019). Biomechanical Analysis of Concentration and Coordination on The Accuracy in Petanque Shooting. *Journal of Physical Education, Sport, Health and Recreations*, 8(2), 96–100. <http://journal.unnes.ac.id/sju/index.php/peshr>
- Natasya, N., Sudirman, S., Rum, A., Saharullah, S., & Hudain, M. A. (2024). Analisis Antropometri dan Koordinasi Mata Tangan Terhadap Keterampilan Pointing Atlet Petanque Sulawesi Selatan. *Jurnal on Education*, 6(4), 18202-1821 <https://doi.org/10.31004/joe.v6i4.5765>
- Nurdidaya & Selviana. (2012). Prestasi olahraga paralimpian indonesia: kajian perspektif psikologis. *Jurnal Iptek Olahraga*, Vol. 14(3): pp.288-308. <http://dx.doi.org/10.20885/psikologika.vol17.iss2.art6>
- Okilanda, A., Arisman, A., Lestari, H., Lanos, M. E. C., Fajar, M., Putri, S. A. R., & Sugarwanto, S. (2018). Sosialisasi Petanque Sebagai Olahraga Masa Kini. *Jurnal Pengabdian Masyarakat Bagimu Negeri*, 2(1), 1-12. <https://ejournal.umpri.ac.id/index.php/bagimunegeri/article/view/638>
- Permadi, A. G., Lubis, M. R., & Yusuf, R. (2020). Pelatihan Teknik Dasar dan Sosialisasi Peraturan Permainan Olahraga petanque pada Siswa SMPN 2 Jonggat Lombok Tengah. *Abdi Masyarakat*, 2(1), 301–307. <https://doi.org/10.36312/abdi.v2i1.1176>
- Riqky Ananda Putra, Rasyono, G. D. (2022). Evaluasi Manajemen Pengurus Provinsi Federasi Olahraga Petanque Indonesia (FOPI) Jambi dalam Pencapaian Prestasi Olahraga di Provinsi Jambi Tahun 2015-2019. *Jurnal Pion*, 2(1)(Evaluaso), 22–23. <https://onlinejournal.unja.ac.id/pion/article/view/18617/14006>
- Sari, L. P., Sembiring, I., Hendrawan, D., Aditya, R., & Dewi, R. (2022). Tingkat Motivasi Berprestasi Atlet Putri Cabang Olahraga Petanque Sumatera Utara Dimasa Pandemi Covid 19. *Sains Olahraga : Jurnal Ilmiah Ilmu Keolahraaan*, 4(2), 93. <https://doi.org/10.24114/so.v4i2.19785>
- Suhartini, S., & Rivaldo, E. L. (2022). Tingkat Motivasi Berprestasi Atlet Karate Kota Jambi dalam Menghadapi Porprov XXIII 2023. *Indonesian Journal of Sport Science and Coaching*, 4(2), 185–197. <https://doi.org/10.22437/ijssc.v4i2.21384>
- Sugiyono. (2019). *Metodelogi Penelitian Kuantitatif dan Kualitatif Dan R&D*. Bandung: ALFABETA.
- Wismanadi, H. (2017). Hubungan Tingkat Kecemasan Dengan Performa Atlet Tim Bolabasket Putra Kota Surabaya Dalam Persiapan Pekan Olahraga Provinsi Iv Di Kota Madiun. *JOSSAE: Journal of Sport Science and Education*, 2(1), 25. <https://doi.org/10.26740/jossae.v2n1.p25-26>