Specificity principle applied in the volleyball

Abstract

Specificity principle the trainer needs to prepare the session the most similar to the competition and the physical training with the strength and the resistance required during the sports practice. How the coach can use the specificity principle in the volleyball training? Volleyball books do not have this information. Then, the objective of the mini-review was to explaining the use of the specificity principle in the volleyball training. Traditional periodization of Matveev determined that aerobic training is the most important session for the athlete because this training for the athlete practices higher loads in the other training phase. This type of training is not specific for the volleyball because the rally is alactic and the match improves the aerobic conditioning, in the volleyball the physical training more important for the volleyball player is the strength training. The volleyball players deserve to practice the special strength training and reactive strength training because these strength trainings is in accordance with the specificity principle. The years 80 was the Cooper era because the volleyball players practiced long-running of 5 kilometers or more. The long-running is not specific for the volleyball player because this match is intermittent. Then, the type of training with an intermittent action is the fartlek and the interval training. Therefore, knowing the content of the specificity principle is important for the physical trainer to elaborate the training. The volleyball coach needs to know the specificity principle for elaborate with more quality the session and the periodization for the volleyball players. In conclusion, the specificity principle is useful to guide the training.

Keywords: volleyball, periodization, training, sports, performance.

Introduction

Sports training literature informed that exist several scientific principles. The scientific principles are a content important for the trainer structure the training because he has content that organizes the session and the periodization. But the specificity principle the trainer needs to prepare the session the most similar to the competition and the physical training with the strength and the resistance required during the sports practice. Then, the specificity principle is very important for the volleyball training.

The volleyball is an intermittent sport with effort and rest. The actions during the match are of short duration (rally of 1 to 10 seconds) and with longer rest duration (11 to 30 seconds). The explosive resistance strength and the reactive strength are the strength most used during a volleyball match. Therefore, this content the specificity principle is important to organize the session.

How the coach can use the specificity principle in the volleyball training?

Volleyball books do not have this information. Then, the objective of the mini-review was to explaining the use of the specificity principle in the volleyball training.

Specificity principle in the volleyball

Traditional periodization of Matveev determined that aerobic training is the most important session for the athlete because this training for the athlete practices higher loads in the other training phase. This type of training is not specific for the volleyball because the rally is alactic and the match improves the aerobic conditioning, in the volleyball the physical training more important for the volleyball player is the strength training.

The strength training has several types of training but the type of training indicated for the volleyball player it was elaborated by Verkhoshanski. The volleyball players deserves to practice the special strength training and the reactive strength training because these strength trainings are in accordance with the specificity principle. Special strength training the athlete deserves to practice the session with the sporting action of the modality. The reactive strength training the player practices several jumps over of the box or in the box. Figure 1 illustrates this physical training.

Figure 1 (A) Special strength training of the running (illustration elaborated by the author) and (B) reactive strength training (Extracted of Verkhoshanski).

The years 80 was the Cooper era because the volleyball players practiced long-running of 5 kilometers or more. Second Oliveira, the long-running is not specific for the volleyball player because this match is intermittent. Then, the type of training with an intermittent action is the fartlek and the interval training. Therefore, knowing the content of the specificity principle is important for the physical trainer elaborates the training.

The ball training needs to be similar with the competition. Then, the emphasis of the ball training is the game training and the game situation training because these training are similar the dispute.
Specificity principle applied in the volleyball game situation training that the coach prescribes is the block training. The coach is standing in a box and he practicing attacks for the players practiced the double block. This training is a little specific because the ideal is the volleyball players practiced attacks for the other players practiced the double block. However, the game situation training of block and attack has high effort and high injury, then the ideal is the coach elaborates this training with the increase of the effort and of the injury level. The first 30 minutes the players practiced the block with coach attack and the others 30 minutes the players practiced the block training with the attack of other players.

Second Rigolin da Silva, the study on the history of each periodization model is important for the coach to know the best periodization for the volleyball (team and indoor). For example, the individualized periodization of Bondarchuk is for the hammer throw athletes and the high load system periodization of Vorobiev is for weightlifting. Then, these models are not specific to the volleyball.

Which periodization model follows the specificity principle for the volleyball coach uses in the volleyball?

The traditional periodization of Matveev and the periodization of the structural scheme of high-intensity loads of Tschiene are models that the volleyball players have high performance. Matveev periodization is the more known model and easier to structure the training. Tschiene periodization is a model of training of high velocity, this is specific for the volleyball because the actions during the match are in high velocity. Block periodization of Verkhoshanski and the non-linear periodization the coach prescribes for the volleyball player when the objective is of increasing the strength. Then, these models are not specific to the volleyball.

Which periodization model follows the specificity principle for the volleyball coach uses in the volleyball?

The article showed how the specificity principle is important for elaborate on the training.

Figure 2 Example of elaboration of periodization (illustration elaborated by the author).

Conclusion

The article taught how the coach and the physical trainer deserves to use the specificity principle in the volleyball. Based on the specificity principle, the author of the article determined the types of training (strength and resistance) for the volleyball player, how to elaborate the ball training and how to determine the best periodized model for the volleyball team (indoor and double). Therefore, this content is very important for the training. The volleyball coach needs to know the specificity principle for elaborate with more quality the session and the periodization for the volleyball players. In conclusion, the specificity principle is useful to guide the training.

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Conflicts of interest

The author declares that there are no conflicts of interest.

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