

Contents

Preface	7
Introduction	8
1. Body composition (basic terms, influencing factors, models, methods)	11
2. Sport as a factor determining the quality of body composition (physical load, energy metabolism in soccer)	19
3. Methods and values of parameters determining the quality of body composition in soccer	23
3.1 DEXA in soccer	24
3.2 Hydrodensitometry and air displacement plethysmography in soccer	28
3.3 Anthropometry and calliper method in soccer	33
3.4 Bioimpedance method in soccer	37
4. Body composition in relation to active and inactive mass	45
5. Body composition in relation to field positions in soccer	65
6. Morphological asymmetries – possible health-preventive key point in soccer	77
7. Nutrition as a factor influencing the quality of body composition in soccer	88
7.1 Carbohydrates	91
7.2 Proteins	95
7.3 Lipids	98
7.4 Vitamins and minerals	99
Conclusion	107