

**RESEARCH
JOURNAL of PHYSICAL
EDUCATION
CHUKYO UNIVERSITY**

Vol. 42, No. 1 • 2

2001

Contents

Original Articles

- Electromyographic Studies on the Work Load of Walking
in Graded Water Immersion T. Yamamoto
N. Kanemasu
T. Watanabe
M. Narita
K. Yamazaki ... 1
- A Simple Method for Determination of Critical Swimming
Velocity in Swimming Flume S. Takahashi
K. Wakayoshi... 11
- Relationship between Lumbar Alignment from
MR image and Lumbago in Female Athletes K. Suzuki
T. Nakagawa
T. Tsujimura... 19
- Relationship between Ground Reaction Force and
Bone Hypertrophy in Rats Performing a Jumping Exercise S. Nagasawa
Y. Umemura... 27
- A Mathematical Method to Express Shake Pace Running Patterns H. Azuma
K. Kobayashi... 33
- Short Reports**
- On Plans in the Future of Our Faculty K. Inomata ... 39
K. Kitagawa ... 41
H. Taki ... 45
Y. Umemura ... 47
Y. Takanashi... 49
Y. Honda ... 53
- Lecture Reports**
- Sports Science in New Millennium T. Amemiya ... 57
- What Effect Does the Physical Activity Give to the HEALTH H. Fujimatsu... 67
- An Advance and Prospects of Biomechanical Model in Sports K. Kobayashi... 77