

Title	Exercise leukocytosis of the long-distance swimmers
Sub Title	
Author	橋本, 治雄(Hashimoto, Haruo)
Publisher	慶應義塾大学体育研究所
Publication year	1981
Jtitle	体育研究所紀要 (Bulletin of the institute of physical education, Keio university). Vol.21, No.1 (1981. 12) ,p.83- 83
JaLC DOI	
Abstract	
Notes	Abstract
Genre	
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00135710-00210001-0083

慶應義塾大学学術情報リポジトリ(KOARA)に掲載されているコンテンツの著作権は、それぞれの著作者、学会または出版社/発行者に帰属し、その権利は著作権法によって保護されています。引用にあたっては、著作権法を遵守してご利用ください。

The copyrights of content available on the Keio Associated Repository of Academic resources (KOARA) belong to the respective authors, academic societies, or publishers/issuers, and these rights are protected by the Japanese Copyright Act. When quoting the content, please follow the Japanese copyright act.

Exercise Leukocytosis of the long-distance swimmers

By *Haruo Hashimoto**

Exercise leukocytosis of the long-distance swimmers was studied. All swimmers were Varsity team members of the Keio University swimming club.

Five students swam for 7 hours, three students swam for 9 hours in the pool on June 29, 1980.

Five students swam for 12 hours in the channel from Enoshima to Atami for about 43 km on July 29, 1980.

Peripheral blood was obtained in 10 minutes after long-distance swimming events. Control blood was obtained in fasting state. Cell counts was performed with Coulter Cell Counter (Coulter Electronics, Inc., Hialeah, Florida, U.S.A.). Leukocytes morphology was studied with the slide glass film methods and Wright's—Giemsa stain.

Hematological examination revealed that long-distance swimming resulted in (1) marked leukocytosis and neutrophil granulocytosis (3.6x, 4.35x, and 5.68x of the control blood in 7 hours, 9 hours and 12 hours swimming respectively), (2) basophil and eosinophil granulocytopenia, (3) slight lymphocytopenia.

* Assistant Professor of the Institute of Physical Education, Keio University. (M. D.)