

August 27, 2004

Improvement of Whole Blood Fluidity by ingestion of Sun Eleuthero Extract

We are pleased to inform you that the result of clinical investigation of Sun Eleuthero Extract published in a medical journal.

The author of this research paper, Mr. Yuji Kikuchi (Natural Food Research Institute), is a person who developed the measuring equipment of blood fluidity. (And the word "flowable (smooth) blood" has become well known by this measuring equipment in Japan.)

Publication

Hemorheology and Related Research

("Hemorheology" means science of blood deformation and fluid)

Title

「Influence of *Ezo Ukogi (***Acanthopanax senticosus*. Harms) extract on Whole Blood Fluidity」

*Ezo Ukogi...Japanese product name of Eleuthero

***Acanthopanax senticosus*. Harms...Scientific name of eleuthero, the same as *Eleutherococcus senticosus*

Summary

Material used in the study: Sun Eleuthero Extract 30ml, twice per day

Examinee: ten men of volunteer

Period of the ingestion: two weeks

Measuring equipment: MC-FAN

Result : Table 1 shows the measurement result, and picture 1 shows the aspect of blood fluidity.

Ingestion of Sun Eleuthero Extract made high blood fluidity.

Taking Sun Eleuthero Extract for 2 weeks showed better result than taking for 1 week.

There was no abnormality found during this experiment.

Table 1 . Measurement result

Time of measurement	Expended time of blood passing (second)
Before ingestion	53.91 ± 0.90
1 week after ingestion	49.45 ± 2.01
2 week after ingestion	45.39 ± 1.24

note) Expended time of blood passing is short = high blood fluidity

Picture 1 . Change of blood fluidity after ingesting Sun Eleuthero Extract



Before ingestion



After ingestion