

Poster No.;
P1308

Title :

A Unique Complex of Several Amino Acids Can Cure Patients with Atopic Dermatitis

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Background (Objective)

- In Japan, the number of patients with atopic dermatitis (AD) has been remarkably increased but an effective treatment has not been developed yet.
- Koyama has researched and developed Palusiastasis (PS), a unique complex of several amino acids, for 25 years according to an endogenous rectorovirus hypothesis on abnormality of immune system in dermatitis such as AD.

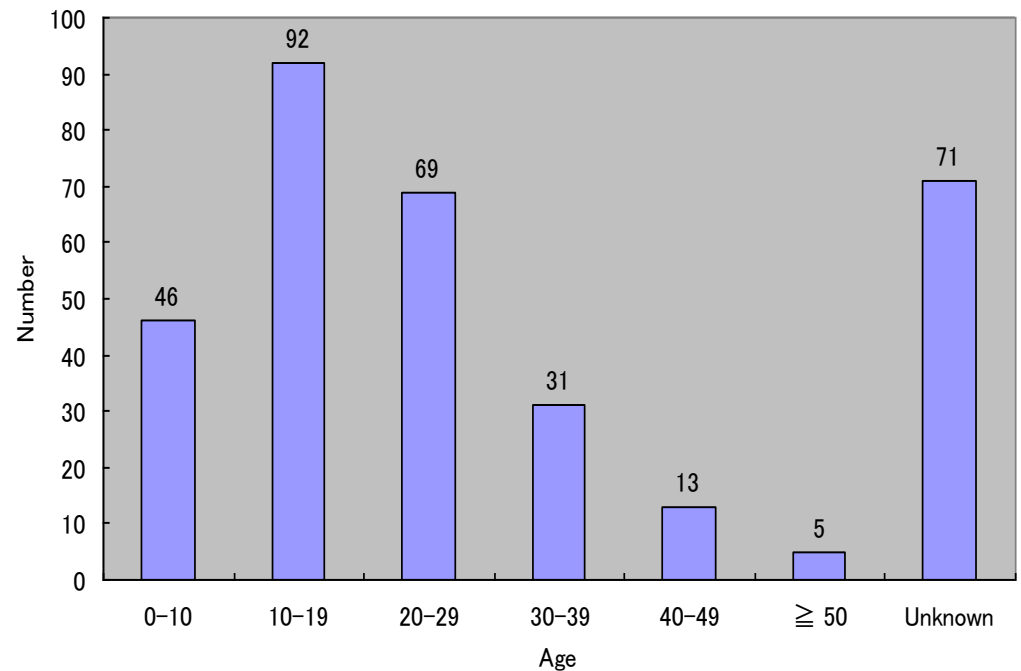
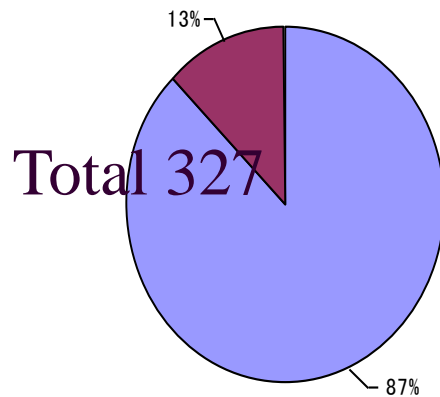
Method

- For longer than 15 years, Shimano has cured more than 300 AD patients using PS and the method to cure them of AD completely has been established.
- The basic method is an application of PS to their skin many times a day for 6 months to 1 year.

Results 1

- PS (a unique complex of several amino acids) had an extremely good therapeutic effect for the AD patients.
- Therapeutic effects of AD patients by PS including some typical cases are shown on the following 10 slides.
- PS could cure them of AD almost completely as far as it was not discontinued.
- PS also had a good therapeutic effect for the patients with other dermatitis (data not shown).
- Treatment of the AD patients with steroids preceding PS tended to delay the complete cure of AD by it, since the true recovery started after exclusion of steroids.

Number of AD patients treated with PS



■ Female (28 years old), 6 months



Before



After

■ Female (42 years old), 1 year



Before



After

- Female (42 years old), 8 months



- Male (8 months old), 11 months



Before



After

- Female (26 years old), 5 months



Before



After

- Female (31 years old), 4 months

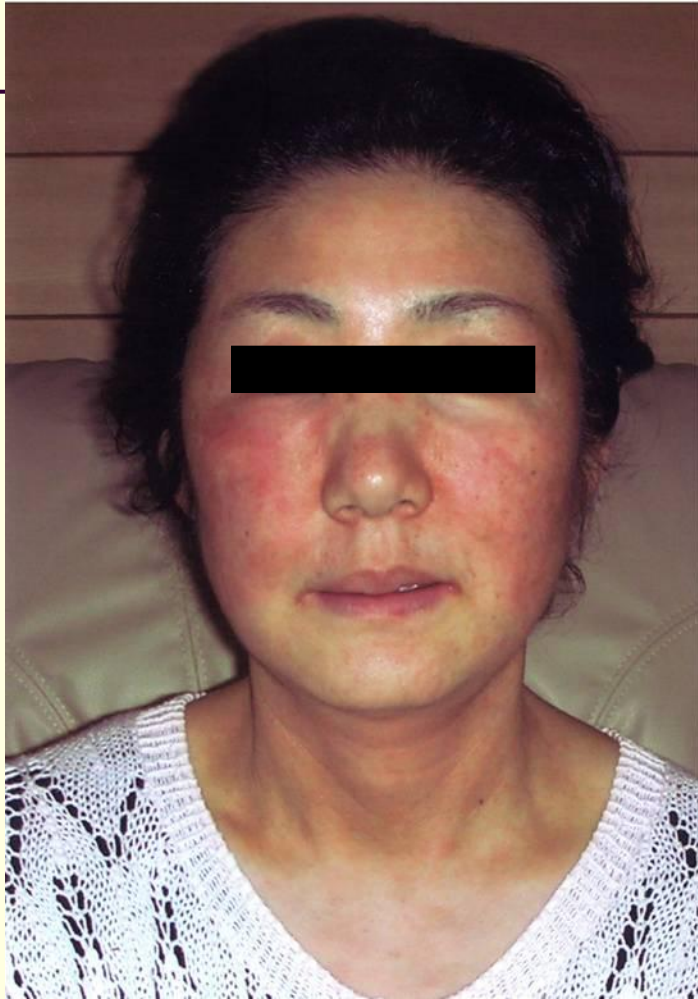


Before



After

■ Female (55 years old), 6 months



Before



After



Before

- Female (26 years old),
6 months



After

- Male (32 years old),
6 months



Before

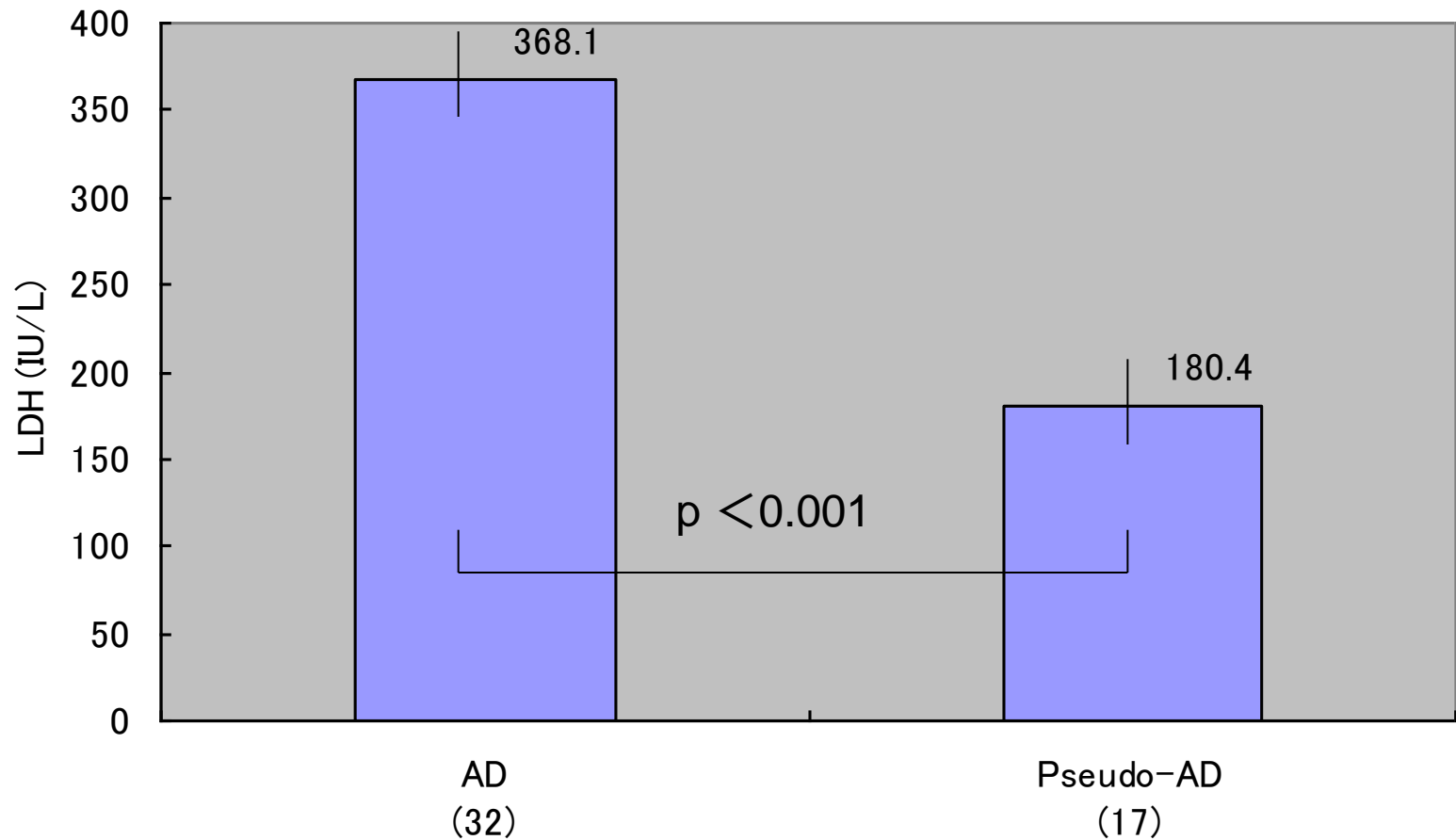


After

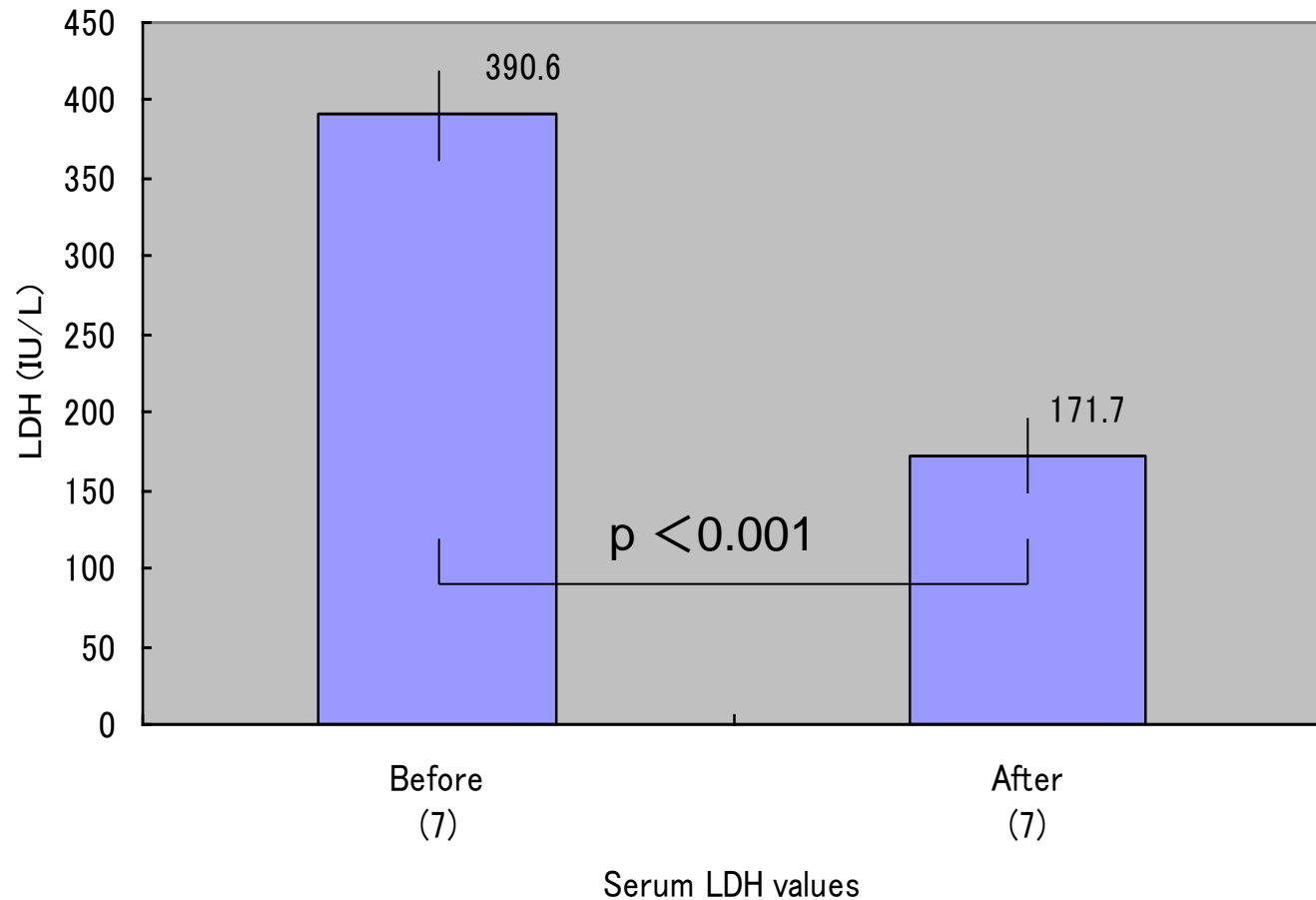
Results 2

- Approximately 65% of AD patients exhibited elevation of serum LDH value and the rest was not. We consider that AD patients with elevated serum LDH may be true AD.
- On the contrary, the values of serum lymphocyte in the group were significantly low (data not shown).
- Very interestingly, the high LDH values of the AD patients were lowered to the normal level accompanying with the therapy of AD by PS.

Serum LDH values in AD patients



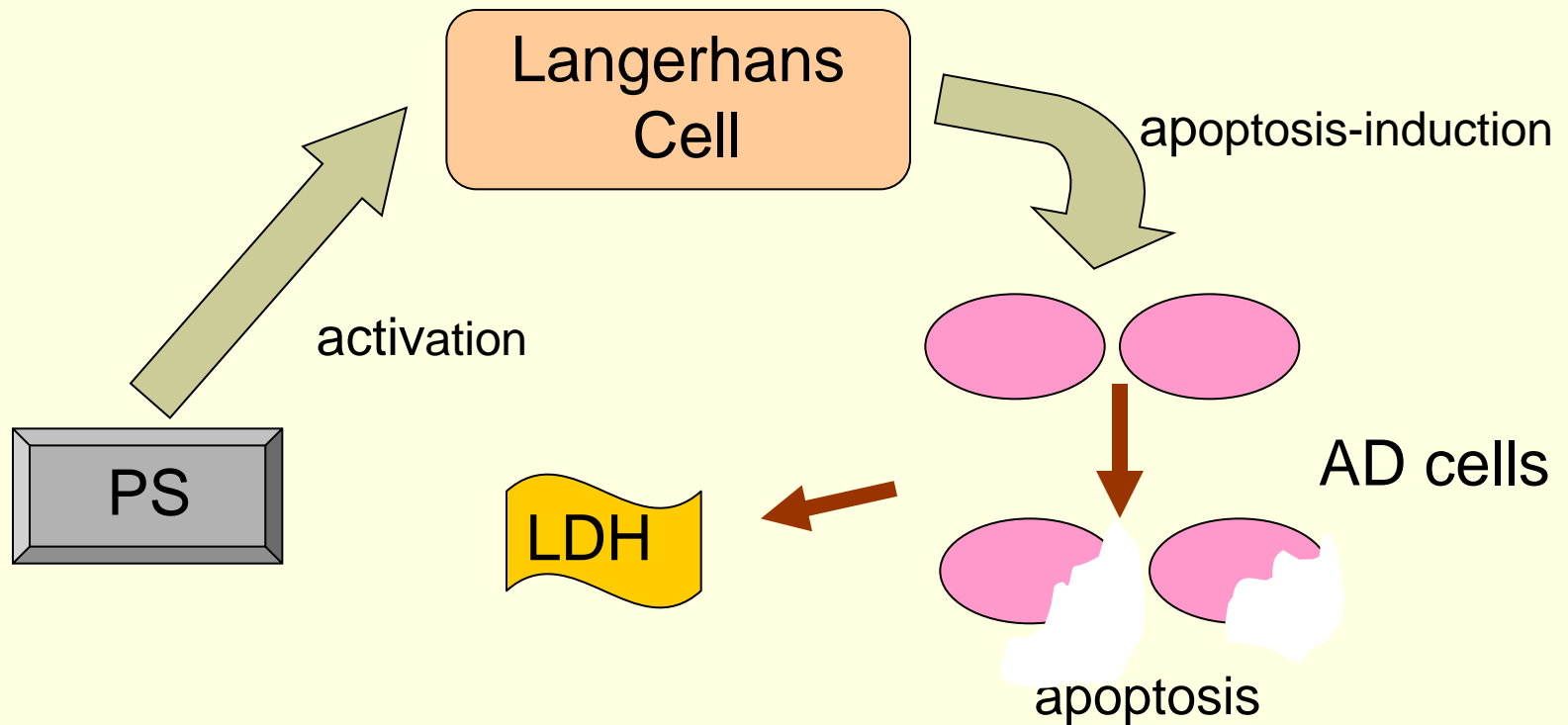
Serum LDH values before and after treatment with PS



Discussion

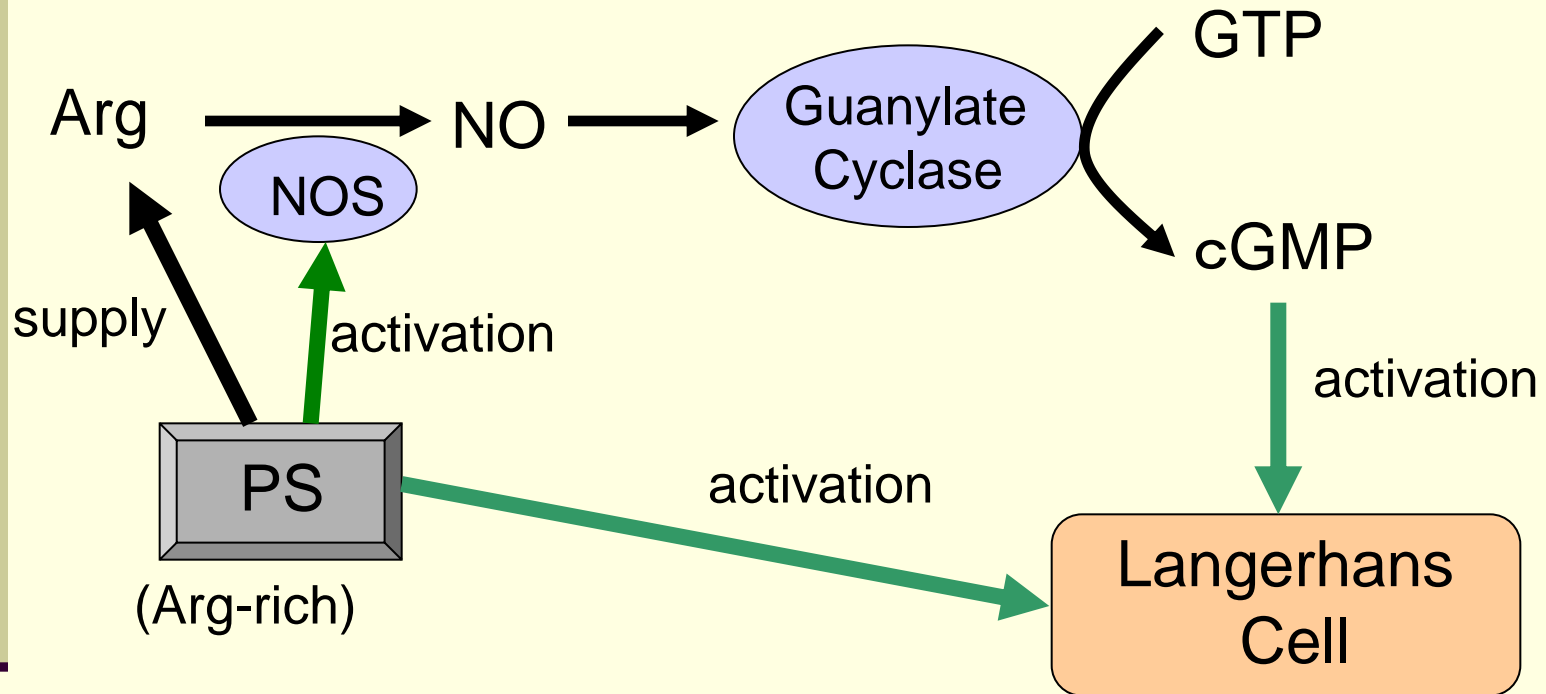
- PS may induce apoptosis of the AD cells.
- We consider that PS may activate the Langerhans cells that instruct apoptosis of AD cells through supplying Arg to NO (nitric oxide) or NOS (NO synthase) activation to cure AD patients.
- Further studies of the mechanism by which PS can cure the patients of AD must be performed.

Apoptosis-induction of AD cells by PS



- PS-induced apoptosis
- Apparent aggravation at the early stage of treatment

Role of NO



Summary

- (1) PS (a unique complex of several amino acids) have an extremely good therapeutic effect for the AD patients as well as other dermatitis patients.
- (2) We can cure them by application of PS to their skin many times a day for 6 months to 1 year.
- (3) Treatment of the AD patients with steroids preceding PS tends to delay the complete cure of AD by it.
- (4) Approximately 65% of AD patients exhibit elevation of serum LDH value and the rest is not. On the contrary, the values of serum lymphocyte in the group are significantly low.
- (5) The high LDH values of the AD patients are lowered to the normal level accompanying with the therapy of AD by PS.
- (6) PS may induce apoptosis of the AD cells.
- (7) We consider that PS may activate the Langerhans cells that instruct apoptosis of AD cells through supplying Arg to NO (nitric oxide) or NOS (NO synthase) activation to cure AD patients.