

tissues (such as bovine/ovine for humans) do not produce the adverse and possibly toxic side effects that more homologous tissues can (such as simian for humans).³⁹

- 6) Some earlier research suggested that immune response in humans was improved at a much greater rate with the use of substances from ruminant sources as opposed to non-ruminant sources (simian and feline).⁴⁰ At least one researcher reported long ago that rat tissue extracts also appear to cause a variety of problems when forced into some animals.³⁹

Clinically, ovine, goat, and bovine glandulars are also preferable to porcine (pork) glandulars as followers of many religious faiths (Islam, Judaism, Seventh Day Adventists, and various Churches of God) will not consume pork, but will consume meat extracts from sheep, goats, or cows.

Why Aren't They Used More?

Since glandulars combined with herbs tend to work faster and sometimes better than herbs alone, why aren't glandulars used more?

One of the reasons is that, generally speaking, glandular ingredients cost more money than herbal ingredients (though they cost much less than Food vitamins or Food minerals). Many companies simply will not use them for that reason. Another reason is many people believe that plants are always the answer. And although for some problems they are, they are not always the best choice as plants almost never contain identical glandular enzymes to humans, while cows, goats, and sheep often do.

Glandulars can help the health of many in ways herbs alone sometimes cannot. I regularly take glandular-containing supplements and recommend them to people with a range of health concerns.

About the Author

Dr. Thiel was an Idaho naturopathic physician and is an Alabama licensed naturopathic scientist. He received his M.S. from the University of Southern California, Ph.D. (Nutrition Science) from the Union Institute & University, and his Doctorate in Natural Health from The United States School of Naturopathy and Allied Sciences. Dr. Thiel is the author of several books, including Combining Old and New: Naturopathy for the 21st Century, and Serious Nutrition: Incorporating Clinically Effective Nutrition

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REFERENCES

- 1) Hulsey MG, Martin, RJ. The role of animals in nutritional research. *Nutr Today*,1993;28 (5):1993
- 2) Lee R. Adrenamin. In *Product Bulletins*, circa 1950
- 3) Lee R. *Therapeutic Food Manual*, Lee Foundation for Nutritional Research, Milwaukee, circa 1950;14
- 4) Lee R. Brain Cytotrophin. Lee Foundation for Nutritional Research, Milwaukee, circa 1950
- 5) *Profiles in Nutritional Progress*. Rubicon Productions, Bakersfield, 1993
- 6) Cenacchi T, et al. Cognitive decline in the elderly: a double-blind placebo-controlled multicenter study on the efficacy of phosphatidylserine administration. *Aging Clin Exp Res*. 1993;5:123-133
- 7) Dean W, Morgenthaler J, Fowkes SW. Phosphatidylserine. In *Smart Drugs II: The Next Generation*. Smart Publications, Petaluma (CA), 1993:75-80
- 8) Thiel R. *Serious Nutrition for Health Care Professionals*, 2nd ed. Center for Natural Health Research, Arroyo Grande (CA), 1996
- 9) Lee R. Pneumotrophin. In *Product Bulletins*, circa 1950
- 10) Lee R. Mammary Cytotrophin. In *Product Bulletins*, circa 1950
- 11) Lee R. Ovary Cytotrophin. In *Product Bulletins*, circa 1950
- 12) Lee R. Spleen Cytotrophin. In *Product Bulletins*, circa 1950
- 13) Lee R. Thymex. In *Product Bulletins*, circa 1950
- 14) Schulof RS, et al. Phase I/II trial of thymosin fraction 5 and thymosin alpha one on HTLV-III seropositive subjects. *J of Biologic Response Modifiers*,1986; 5: 429-443
- 15) Neumann C. *Serious Nutrition: Incorporating Clinically Effective Nutrition Into Your Practice*. Source Graphics, Kelowna (B.C.), 2005
- 16) Gardner M. Intestinal assimilation of intact peptides and protein from the diet - a neglected field? *Cambridge Philosophical Society, Biological Reviews*,1984;59: 289-331
- 17) Popov I.M., et al. Cell therapy. *J International Academy of Preventive Medicine*,1977; 3:74-82
- 18) Burns D. Accumulating scientific evidence supports glandular therapy. *The Digest of*

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