

## Ginseng Research During Past 20 Years in Southeast Asia

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*Panax Ginseng* is one of the tonic natural source. It is very commonly used by southeast people. The steamed root of the Ginseng plant is called as red ginseng. The fresh ginseng was washed and sun or oven dried as White ginseng. Red ginseng has the same nature and flavor as white ginseng, but has a stronger supplementing action. It is especially suitable for Yang vacuity patterns with inversion cold in the limbs. Daily dosage : 1.5-10 gm. Contained in pathogen repletion patterns. In clinical doctors usually dispensed the ginseng mixed with one or more than one kinds of Chinese herbs for remedy to diseases. It is Si-jun-ji-tang(四君子湯), Sheng-mai-san(生脈散), Ren-shen-tang(人蔘湯), Lin-jun-zi-tang(大君子湯), Ren-shen-yang-rong-tang(人蔘養榮湯), Bai-ha-jia-ren-shen-tang(白虎加人蔘湯) etc.

Ginseng is one of the famous physiological active oriental crude drugs. In China, we call it as the Qi tonic drugs. The conception of Qi represents the native cognition of the natural phenomena in the ancient time, in which Qi is believed to be the basic element which constitutes the cosmos and produces everything in the world through movement and changes. Thus, Qi corresponds to or can be comprehended as configurative energy. Since the existence of Qi in the human body can only be perceived through

its resultant activities of organs and tissues. So in the field of medicine, Qi is referred to basic element or energy which makes up the human body and supports its vital activities. In Chinese medicine on the principles and methods of treatment are according to the diagnosis that based on an overall analysis of symptoms and including the causes, nature and location of the illness and the patient's condition. It is "ascertain the causes of a disease and give treatment". So the Qi tonic drug is usually used in the treatment deficiency of Qi. Shen(茶) is very commonly found in traditional Chinese medicinal literatures. They are included -- 人蔘, Ginseng(*Panax ginseng* C.A. Mey, Araliaceae), 黨蔘, Pilose Asia bell Root: *Codonopsis Pilosulae Radix* (*Codonopsis pilosulae* Nannf., Campanulaceae); 太子蔘, *Pseudostellaria Radix*: (*Pseudostellaria heterophylla* Miq., Caryophyllaceae), 花旗蔘 American, *Panacis Quinquefoli Radis*: (*Panax quinquefolium* L., Araliaceae) etc. The different preparation method, used part and distribution of Ginseng were collected. The tonic Chinese drugs for replenishing for the vital energy and treatment of various disease is mainly based on their properties to enhance the function of immune system. This conception is now re-emphasized by modern immunotherapy of tumor. In this paper, the immuno-regulative effects of 9 kinds Ginseng on

S-180 ascite tumor bearing inbred Blab/c mice, the prolongation survival time was detected. T lymphocyte and its subpopulation of Monoclonal antibody of Anti-mouse Thy 1.2, Lyt-2 and L3T4 PE strain, were used then detected by the FAC-Scan Flowcytometry(Becton Dickson). The

results show as the following:

- (1) The number of ascite tumor bearing mice that immune regulation of total T lymphocytes significantly decreased than that of the control group.
- (2) American Ginseng and Korea red ginseng