Soy: Summary of Toxic Effects

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- Only one oz of soy protein consumed daily causes breast abnormalities due to soy’s powerfully estrogenic effects (Petrakis, N.L., et al., 1996).

- Pregnant animals fed soy protein produced offspring with deformed sex organs and a life-long ‘estrogen syndrome’ (e.g. increased incidence of thyroid disease, bone loss, gallbladder disease, cancer, infertility and heart disease). The high estrogen syndrome can be corrected in one generation with a very strict high animal-protein diet and thyroid therapy. This study was done 50 years ago.

- The effect of soy protein isolate was evaluated of pre- and post-menopausal women. The results showed increased breast secretion (the effect of estrogen), increased hyperplastic epithelial cells in the breast fluid (a pre-cancerous sign) and increased plasma estradiol. This study demonstrates the strong estrogenic properties of soy protein (Petrakis, N.L., et al. 1996).


- Soy protein contains potent thyroid inhibitors called isoflavones, mainly genistein and daidzein (Divi, R.I. and D.R. Doerge, 1997).

- Soy is an anti-thyroid substance: Hypothyroidism and goiters were reported in infants receiving soy-containing formula (Valentine, Tom, 1997). Thyroid function was studied in people consuming soy. Soy was found to cause thyroid suppression and goiters in many studies (Ishizuki, Y., et al., 1991; Divi, R.I. and D.R. Doerge, 1997).

- Soy contains potent proteolytic enzyme inhibitors (trypsin and others) which block these enzymes needed for protein digestion. These enzyme inhibitors cannot be refined out of the soy mash nor deactivated during cooking. Eating soy can thus produce serious gastric distress from reduced protein digestion and chronic amino acid deficiencies. In test animals, diets high in trypsin inhibitors caused pancreatic hypertrophy and pathologic conditions of the pancreas, including cancer (Fallon, S. W. and Mary G. Enig, 1995).

- Soy protein, especially unfermented soy protein (tofu, soy milk, soy beans) contain the highest amount of phytic acid of any known substance. This acid blocks mineral absorption: especially zinc, but also calcium magnesium, and iron. Only a long period of fermentation will significantly reduce the phytate content of soybeans (Fallon, S. W. and Mary G. Enig, 1995).

- The soybean contains a clot promoting substance called hemagglutinin, which makes red blood cells stick together or ‘clump.’ Hemagglutinin is deactivated during fermentation. In unfermented soy products, the hemagglutinin is reduced in quantity but not completely eliminated (Fallon, S. W. and Mary G. Enig, 1995).

- Soy protein powder is a highly refined, high temperature-produced product that is a very poor source of protein and still contains trypsin which can vary as much as 20%. Use of soy milk in
infants produces a severe mineral deficiency, especially of zinc and. In addition, soy formula contains 100 times more Aluminum than unprocessed milk (Fallon, S. W. and Mary G. Enig, 1995).

References


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