

## **Exciting Chiroitol™ Research**

Over 30 published studies performed at the Virginia Medical School have shown that Chiroitol™, a nutrient derived from carob, is an effective supplement for insulin-resistant conditions including weight gain, metabolic syndrome and type 2 diabetes, as well as for excess androgen (male hormone)-related concerns such as PCOS, acne and male facial hair growth in women.

There is a connection between the loss of our waist and changing hormones. The main hormone involved in the development of belly fat is insulin. Insulin is a powerful hormone that, when in excess, also causes an elevation in male hormones, particularly testosterone. Excess male hormones can cause male facial hair growth, acne and PCOS in women. Elevated insulin and blood sugar further leads to weight gain, high cholesterol, high triglycerides, diabetes and especially belly fat. An early sign of pre-diabetes is skin tags due to higher-than-normal blood sugar and insulin. Chiroitol™ normalizes insulin and blood sugar levels, thereby assisting with all of the above conditions. Chiroitol™ mimics insulin's activity, controlling blood glucose levels, glucose storage and the action of glucose in the cell. It will not, however, cause low blood sugar in those with normal blood sugar levels. Chiroitol also elevates our happy hormone, serotonin. Reduced serotonin or poor metabolism of serotonin is linked to increased sugar cravings. By balancing serotonin and blood sugar, Chiroitol™ also helps to control appetite.

## **Polycystic Ovary Syndrome**

Polycystic ovary syndrome (PCOS) is an insulin-resistant disorder with resulting elevated male hormones. Many fluid-filled cysts may be present in the ovaries, but some women do not have multiple cysts. In this disorder, excess circulating insulin and luteinizing hormone increase the production of male hormones that can cause acne and coarse facial hair growth in women. Oily skin may also be evident. Affecting up to 10 percent of the population, PCOS is the most common hormone dysfunction among women in their reproductive years. Symptoms often become apparent in puberty, when menstruation begins. Irregular menstrual periods with excess bleeding may occur, or PCOS can cause a lack of periods altogether. Because eggs are frequently not released, infertility is a major concern of women with PCOS. If pregnancy does occur, it often ends with first trimester miscarriage or is associated with gestational diabetes. If left untreated, PCOS can lead to cancer of the uterine lining. Women with PCOS also are at increased risk for developing type 2 diabetes, cardiovascular disease and hypertension. PCOS is a very challenging condition to treat and Chiroitol™ effectively reduces excess male hormones, reduces weight and appetite, and normalizes ovulation, thereby improving fertility. If you have been battling PCOS, Chiroitol™ is the solution.

## **GLUCOsmart™ with Chirostitol™** by Lorna Vanderhaeghe



### **What to expect from this product:**

- Fights belly fat in men and women
- Aids weight loss
- Normalizes insulin and blood sugar
- For pre-diabetics and type 2 diabetics
- Enhances serotonin, our happy hormone
- Reduces sugar cravings
- Halts polycystic ovarian syndrome (PCOS)
- Improves fertility in those with PCOS
- Stops skin tags associated with pre-diabetes
- Controls elevated testosterone levels that cause male facial hair growth in women
- For men and women