

Thyroid Flyer

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Feature – Autoimmunity & Related Conditions

Editorial

By Christopher McDermott

Welcome to our first Thyroid flyer issue for 2006.

The feature of this issue are the various autoimmune conditions. Some people with thyroid conditions also develop other autoimmune disorders. So we thought it an opportunity to provide some information on just some of those other autoimmune conditions.

The first few months of this year has been an eventful time within Thyroid Australia. If you have glanced to the top of this editorial you will note that I have taken up the reins as Editor from Alun Stevens, who is taking some time out. I have also taken some of the other Presidential duties - particularly with the committee of management - until our next Annual General Meeting at the end of this year. Alun has been President as well as Treasurer and Company Secretary - for almost two years - as well as being the "webmaster" for Thyroid Australia since its inception. Most of you reading this would have visited our comprehensive website. Indeed, for many of you, your first contact with us was probably through our website.

I am pleased that Alun will continue to manage the website. I would like to thank him – on behalf of you all for the work he has contributed – and will continue to contribute - to the organisation. Alun's reason for taking time out is good news rather than bad; his company has become so successful that he must devote more and more of this spare time to his business interests. I wish him continuing success.

The other departure from Thyroid Australia which I must unfortunately announce is that of Robyn Koumourou. I first met Robyn at the official launch of Thyroid Australia at Melbourne Zoo back in 1999.

Overview: Autoimmune Disorders

F rom time to time, physicians have recognized situations in which diseases occur together more often than chance alone would allow. In 1926, M. B. Schmidt, a physician in Germany, described two patients in whom both the adrenal and thyroid glands had failed. Since then, more than 125 patients with both disorders have been described, enough to make us realize that something more than an "accident of nature" makes this rare combination happen.

In several places on this website <u>www.allthyroid.org</u> we have commented on the relationship between Graves' disease and Hashimoto's disease, which tend to occur in the same families, sometimes in the same patients, and which seem to be different presentations of a single disease process.

There are other conditions that tend to occur in patients with Graves' disease and Hashimoto's disease and in their relatives as well. Some, like the prominent eyes of Graves' disease known as exophthalmos, have been well-studied and their relationship to thyroid problems carefully examined. Others, such as some of the associated skin disorders, are less well understood in regard to their relationship to the thyroid.

These articles are not about those bodily changes that occur due to high or low thyroid hormone levels. High hormone levels, for example, can raise your upper eyelids, make your skin soft and smooth, and cause your hair to become fine and delicate. The high hormone levels do not, however, cause your eyes to protrude, make the white patches of vitiligo appear on your skin, or produce the patchy baldness we call *alopecia areata*.

The latter problems are diseases in their own right. These are not, in general, serious problems about which thyroid patients should be concerned. Many, like *alopecia areata*, are not helped much by treatment, and tend to go away after a period of time. Others, like pernicious anemia or vitiligo, can be cured or controlled by appropriate treatment. Some, like Addison's disease, are so uncommon that even thyroid specialists rarely see a patient with this condition. Nevertheless, we believe there should be a place on this website <u>www.allthyroid.org</u> to which patients with Graves' disease or Hashimoto's disease can refer if they discover that they or one of their relatives has one of these problems.

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Volunteer News

The Thyroid Australia Board: We are currently wanting to expand the Thyroid Australia Committee and Board of Directors.

Your Story: If you have a story to tell and would like to share your personal experiences with thyroid disease, and/or related conditions, please send in your story to Thyroid Australia, via email or mail. We are always looking for member's stories to include in future editions of the *Thyroid Flyer*.

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Hashimoto's Disease and Other Forms of Thyroiditis

in which the thyroid gland becomes in- mune system. Thus, women are affected with other symptoms and signs of thyroid flamed. Most commonly, the inflamma- about eight times more often than men, failure. However, since chronic lymphotion takes the form of a chronic, progres- and although you may develop this form cytic thyroiditis tends to be a progressive sive disease known as chronic lympho- of thyroiditis in childhood or adoles- condition, your thyroid hormone level cytic thyroiditis or Hashimoto's disease cence, it is most commonly diagnosed will probably continue to fall, causing (in honor of the Japanese physician who after the age of forty, for this is when your symptoms of hypothyroidism to first described the microscopic changes in affected patients usually become hypo- worsen until your disease is recognized the thyroid tissue of patients with the thyroid. Your body's immune system and treated. condition in 1912). Patients with this plays a role in the production of the thyform of thyroiditis sometimes exhibit so roid inflammation and tissue destruction Your physician can confirm the presence few symptoms that the disease may go that occurs in chronic lymphocytic thyunnoticed for many years, but eventually roiditis. Substances known as autoantiit may destroy so much thyroid tissue that bodies, made by white blood cells called hypothyroidism develops.

Lymphocytic thyroiditis may also occur as a self-limited condition which lasts 2-6 months, resolving spontaneously, and leaving most patients with normal thyroid function. When it occurs after pregnancy, it is termed postpartum thyroiditis. Another painless variant of lymphocytic thyroiditis may occur at other times and The most sensitive test for hypothyroidhas been termed silent thyroiditis.

Subacute thyroiditis or DeQuervain's disease is another condition caused by thyroid inflammation, one that is distinct from those mentioned above. The disease often seems to follow the course of a viral infection. The thyroid gland is usually painful and looks quite different on microscopic examination.

Finally, very rarely the thyroid may become suddenly and dramatically inflamed with a bacterial infection. This condition is referred to as acute suppurative thyroiditis.

Chronic Lymphocytic Thyroiditis (Hashimoto's Disease)

Hashimoto's disease appears to be an inherited condition. As with Graves' disease, you probably must inherit a gene or set of genes to be able to develop this disorder. However, even though you may inherit this genetic tendency, you still may never actually develop the disease When hypothyroidism occurs, you probaitself. Therefore, there must be other factors which cause this condition to develop.

describe several different disorders woman, your age, and your body's im- mental dullness may appear, together lymphocytes, appear in your blood in this condition. Although we do not yet fully understand how or why these lymphocytes and antibodies work, the final result is damage to thyroid tissue. When enough tissue has been destroyed, your thyroid hormone production falls below normal, and symptoms of hypothyroidism appear.

> ism is a blood test that measures the level of the pituitary's thyroid stimulating hormone (TSH). When TSH tests are carried out on large numbers of people, we find that about 10 percent of women and 4 percent of men over the age of fifty have an elevated blood level of TSH. By age sixty, TSH is increased in as many as 16.9 percent of women and 8.2 percent of men. Put another way, at least one woman in six and one man in 12 will develop Hashimoto's disease in their lifetime. Each could potentially develop subsequent hypothyroidism and should be watched for signs of thyroid failure.

> If you develop this condition, your thyroid inflammation will probably be so mild that at first you won't even know that anything is wrong. The first indication of a problem may be a goiter : You may develop a gradual painless enlargement of your thyroid gland. During this period, your thyroid gland is becoming infiltrated with lymphocytes, which start gradual thyroid destruction and scarring that may result in subsequent thyroid failure.

> bly will feel sluggish and run down, but the disease progresses slowly, so you may not realize that anything is wrong.

hyroiditis is the general term used to These other factors include being a Constipation, leg cramps, hair loss and

of hypothyroidism by means of a blood test that shows a low level of thyroid hormone (T4) and a high blood level of thyroid stimulating hormone (TSH). The elevated TSH level is the more important test, for it is more sensitive and proves that your thyroid, not your pituitary, has failed. Also, a blood test demonstrating the presence of antithyroid antibodies provides strong evidence of thyroiditis.

Since this condition may be progressive, lifelong follow-up is essential, but this usually amounts to no more than your physician examining your thyroid and testing your blood levels of T4 and TSH at your annual health checkup. As your thyroid gland's function declines, your thyroid hormone dosage may be increased appropriately. On the other hand, the dosage may actually decrease in some elderly persons.

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The Overactive Thyroid: Hyperthyroidism Caused by Graves' Disease (Diffuse Toxic Goiter)

Introduction

overactivity of the entire thyroid gland. you cannot stand up from a squatting your blood level of thyroid hormone. If This is called diffuse toxic goiter: diffuse position without help. You may notice you are one of the people with Graves' because the entire gland is involved in the that your hands shake, and at times this disease who develops eye inflammation disease process, toxic because the patient tremor may become so severe that you and protrusion, the eye problems probaappears hot and flushed, as if he or she can't even carry a cup of coffee without bly will begin when you first become were "toxic" due to an infection, and goi- its rattling or spilling in its saucer. Your hyperthyroid. Quite often, however, eye ter because the overactivity enlarges the heartbeat may speed up from a normal problems and thyroid overactivity occur gland. Goiter is also known as Graves' rate of 70 or 80 to well over 100 beats per at different times, occasionally separated disease, in honor of the Irish physician, minute. Occasionally, without warning, from one another by many years. Very Robert J. Graves, who was one of the your pulse may quicken abruptly, causing rarely, a person may develop eve trouble first to describe this condition and who very rapid palpitations that last several as the only manifestation of Graves' disfirst noted the protrusion of the eyes that minutes and then end as mysteriously and ease. is sometimes associated with it. Between abruptly as they began. You are unlikely 1 and 2% of all people in the United to have real diarrhea, but your bowel Eye disease is therefore one problem that States will develop Graves' disease. It is 3 movements may become loose and more occurs only in the type of hyperthyroidto 4 times more common in women than frequent. in men, and typically begins between the ages of 20 and 40.

cases, grow big enough to protrude nosense the presence of a lump while swallowing. Typically, in this form of hyperthyroidism your thyroid gland is not tender, and it is not uncomfortable when you swallow.

may lose weight even though you seem to eat plenty of food. You may feel nervous pear more prominent. Occasionally, howand jumpy and may become quite irritable and quarrelsome. You are likely to eyeballs may cause actual protrusion of perspire more than usual and dislike hot the eyes known as exophthalmos or propweather. Your skin may gradually become thin and delicate, and you may notice that you are losing some of the hair on your head. As your fingernails grow more rapidly, you may notice an irregularity of the nail margin, making it difficult for you to keep your fingernails comes inflamed and you may have trouclean. It is also possible that you could ble with your vision. This condition is develop itchy hives on your skin.

Signs & Symptoms of Graves' disease Muscle weakness, especially involving

your upper arms and thighs, may make it thyroid hormone, even someone who is difficult for you to carry heavy packages taking thyroid hormone tablets in excess. he most common type of hyperthy- or to climb stairs. You may, in fact, ex- The other things that can happen to your roidism is produced by a generalized perience such marked leg weakness that eyes in Graves' disease are unrelated to

may change. Your flow may become pears on the front of your legs and rarely If you develop Graves' disease, your thy- much lighter and the interval between on top of your feet. This is called roid will begin to produce more and more menstrual periods may lengthen. More pretibial myxedema, and takes the form thyroid hormone. As it does so, the gland rarely, your periods may become irregu- of a lumpy, reddish colored thickening of will usually grow larger and will, in most lar, or may cease entirely, making it more your skin. It is usually painless and not difficult for you to become pregnant. If serious. As with the eye trouble in ticeably in the front of your neck. You pregnancy does occur, there appears to be Graves' disease, pretibial myxedema may may notice the enlargement in your neck an increased likelihood that you will have occur anytime. Its appearance does not yourself, or you may not notice anything a miscarriage. Women usually notice necessarily coincide with the beginning until a friend or your physician points it little change in their breasts, but if you of your thyroid problem, nor is its severout. If the goiter is small, you may only are a man, your breasts may become ity related to your blood level of thyroid slightly larger and may be tender.

Eve Involvement

One of the most puzzling and least understood aspects of Graves' disease is the way it may affect your eyes. Usually the As you develop hyperthyroidism, you change is simply an elevation of your upper eyelids that makes your eyes apever, swelling of the tissue behind your tosis. Sometimes your eyes will feel dry or become red and irritated. A few patients have involvement of their eve muscles that may make them see double. In its most extreme (and very rare) form, the nerve to one or both of your eyes beknown as optic neuropathy.

> Elevation of the upper eyelids may be seen in anyone who has a high level of

ism that is caused by Graves' disease. Another condition unique to Graves' dis-If you are a woman, your menstrual cycle ease is a very rare skin disorder that aphormone. One of the rarest manifestations of Graves' disease is thyroid acropachy, which causes the tissues around the base of the nails to become swollen, but not painful. Periodic paralysis is yet another condition seen in occasional patients with Graves' disease. This disorder causes sudden attacks of profound weakness of all of the muscles of the body. In susceptible patients, sugar or starchy foods appear to cause a lowering of the blood potassium level, which prevents normal muscle function. For unknown reasons, periodic paralysis is most often seen in Asian men with Graves' disease.





Causes of Graves' disease

raves' disease seems to be caused by J the interaction of a variety of different factors, including heredity, your body's immune system, your age, sex hormones, and stress. Some sort of genetic predisposition seems to be needed first, and can be thought of as an inherited tendency to develop hyperthyroidism. If you have this factor, you may develop Graves' disease at some time during your life, or you may not, but if you lack this genetic factor, you probably cannot develop this disorder.

This type of hyperthyroidism clearly runs in families. If you have Graves' disease, and if sensitive thyroid tests could be carried out on your relatives, they might show mild thyroid abnormalities in one of your parents and one of your grandparents, in some of your aunts, uncles, brothers, and sisters, and possibly in some of your children as well. Fortunately, few of these relatives will ever become sick enough from their thyroid problems to require treatment; but some of them should be checked occasionally in this regard by their family physician.

Studies in identical twins confirm the importance of genetics in Graves' disease and also show the ability of other factors to modify the disease. Usually, identical twins either both have Graves' disease or neither develops the problem. But since other factors influence the disease process, twins rarely experience the onset of hyperthyroidism at the same time, and the course of the disease in the twins may be quite different.

that can "trigger off" Graves' disease in a person who has inherited a tendency to it. Many thyroid specialists believe that stress can play a role in starting the hyperthyroidism, for we have all seen patients in whom a stressful situation, such as a death in the family, has preceded the onset of this condition. Sex hormones are also important, for the disease is seven to nine times more common in women than in men, and not infrequently begins after a hormonal change such as pregnancy. Age also seems to have something to do with the onset of Graves' disease, since it is most likely to appear when you are between the ages of twenty and forty. Finally, your body's immune system ap-

this disorder.

By an unknown mechanism, substances called autoantibodies appear in your life. blood. These autoantibodies bind to the cells in your thyroid gland and stimulate More serious eve problems may occur in the thyroid to overactivity by mimicking patients with Graves' disease and (less the effects of pituitary thyroid stimulating commonly) Hashimoto's thyroiditis. The hormone (TSH). This causes the thyroid severity of these conditions is unrelated to enlarge and to make more thyroid hor- to the blood level of thyroid hormone. If mone. Thus, instead of being under the the condition is mild, you may have only control of your pituitary gland, which is redness and irritation of your eyes. On the normal situation, your thyroid be- the other hand, in those rare instances comes controlled by these abnormal anti- when the inflammation is more severe bodies in your blood.

The immune disorder that characterizes threatened. Graves' disease usually develops spontaneously, but recent studies have shown It should be pointed out that the thyroid that you could be at increased risk for the disease if your thyroid gland was inadvertently damaged by x-rays for cancer therapy in the past or if you are taking one of the new immune-altering drugs like interferon and interleukin.

Conclusion

In summary, a susceptible person develops Graves' disease because of one or more factors that trigger off thyroid overactivity. As thyroid function increases, more thyroid hormones are released into the blood stream, producing the symptoms of hyperthyroidism.

Eye Enlargement and Inflammation

ny hyperthyroid patient, no matter Awhat causes their hyperthyroidism, There appear to be many different factors may experience elevation of the upper eyelid anytime the blood level of thyroid hormone is above normal. For example, patients who are hyperthyroid because of too much thyroid hormone medication may have raised upper eyelids causing their eyes to appear enlarged or staring. In this situation, however, the eyes do not picture of the inflamed tissues behind actually protrude.

> If you have Graves' disease, you may develop protrusion and inflammation of of your eyes without there being any evi- (TFA) dence of infection. It is likely to begin about the time your thyroid becomes overactive, but it may precede your hyperthyroidism or occur years after your

pears to play a role in the production of thyroid function has become normal. Very rarely, the eye disorder may occur without your having any obvious abnormality of thyroid function at any time in

> your eyes may protrude, you may have double vision, and your sight may be

> eye disease does not necessarily progress in an orderly fashion from mild to severe in any given patient. In fact, a rapid decrease in vision can occur due to pressure upon the optic nerve in a patient with only minimal swelling of the eyelids. For this reason, if you have Graves' disease and begin to show signs of eye trouble, you should have a complete eye examination. If your eye involvement is severe, your physician may refer you to an ophthalmologist (eye specialist), who will have at his/her disposal all of the equipment needed to evaluate the various eye problems that may occur in Graves' disease. Your vision can be accurately tested. The amount of eye protrusion can be accurately measured with an exophthalmometer. The cornea and other tissues of your eye can be examined by the use of a microscope-like instrument known as a slit lamp. Ultrasound pictures of your eye and eye socket (orbit) may be taken, using sound waves in a technique similar to radar. Alternatively, your physician may request special x-rays of your orbits done by computerized tomography (CT scan) or by a newer technique called Magnetic Resonance Imaging (MRI). These techniques will provide a clear vour eve.

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pend upon the kind of eye disease you patients. When they do occur, the treat- stream from your inflamed thyroid gland. have and whether it is getting worse. ment methods are excellent and are usu- Later on, when the thyroid's supply of Mild inflammation may be treated simply ally successful in improving the problem. hormones is exhausted, blood levels of by elevating the head of your bed at night Occasionally excessive drooping of the these hormones often fall below normal and by lubricating your eyes with drops upper or lower eyelids may cause cos- and symptoms of hypothyroidism may of "artificial tears."

On the other hand, if you have a severe and rapidly progressive inflammatory condition with double vision or decreased vision, you may require special glasses or treatment with steroids. If your eye tissues continue to swell despite the use of steroid hormones, additional therapy is available. This may include x-ray treatments to the tissues behind the eve or surgery on the bony orbit (surgical decompression) to relieve the increased pressure behind your eye.

New research suggests that cigarette of thyroid problems before or during hypothyroidism within three to four smokers are at greater risk for these troubles than non-smokers, so if you smoke and have just developed Graves' disease, In its early stages, hyperthyroid symp- 😳 Reproduced with the kind permission

metic problems, but plastic eye surgery appear. can be very helpful for such patients.

Postpartum Thyroiditis

woman's immune system is sup-A pressed during pregnancy, but bea baby. If you have a genetic tendency given to maintain blood levels in the nortoward autoimmune thyroid problems, mal range. you may experience a painless inflammation of the thyroid as your immune sys- Although complete recovery is common, tem becomes more active in the months about one-third of all women with postafter delivery, even if you have no history partum thyroiditis progress to permanent pregnancy.

stop smoking at once. Fortunately, seri- toms may occur if excessive amounts of of

Treatment of your eye condition will de- ous eye problems are rare among thyroid thyroid hormone leak into the blood-

Beta adrenergic blocking drugs like propranalol, atenolol, and metoprolol are usually enough to control the symptoms if you develop hyperthyroidism in the early weeks of this condition. If your thyroid fails after several months, supplecomes more active following delivery of mentary thyroid hormone tablets can be

years, and require life-long treatment.

Thyroid Foundation of America

Disorders of Other Endocrine Glands

Y our thyroid is one of many endocrine glands, and autoimmune inflammations like those occurring in Hashimoto's thyroidi-tis may occur in these other glands too. When the inflammation leads to scarring and tissue damage, the glands may fail to produce enough hormones for your needs. The symptoms that result depend on the function of those hormones.

Your adrenal glands make cortisone and other steroid hormones, which are released into your blood stream daily and are especially important in your response to stressful situations. Adrenal failure (also called Addison's disease) is an uncommon condition, occurring in only one individual per 100,000 of the population. In most patients with Addison's disease, glandular damage is due to an immune attack on the tissues of the adrenal glands. If your adrenal glands fail, you will experience fatigue, loss of energy, weakness, and darkening of your skin, especially over your joints and inside your mouth. This condition is treated by replacing the hormones that the adrenals no longer make in sufficient amounts (cortisone and related steroid hormones).

Some women suffer from oophoritis, a painless autoimmune inflammation of their ovaries. In this condition, antibodies to ovarian tissue may be found in the bloodstram, and inflammation and scarring have been demonstrated in the ovarian tissues of affected individuals. Though rare, oophoritis is a condition your physician will consider if you experience early menopause.

Autoimmune damage to your parathyroid glands may lead to calcium deficiency (hypocalcemia). Symptoms of this condition include mood changes, numbress and tingling around your mouth and in your fingers and toes, muscle cramps, and, very rarely, convulsive seizures. Though associated with autoimmune disorders, it is actually a very rare cause of low calcium levels among thyroid patients. The more common cause of hypocalcemia is accidental damage to the parathyroid glands after thyroid surgery. If you develop hypoparathyroidism, your physician will likely prescribe calcium and Vitamin D tablets to eliminate your symptoms by adjusting your doses of these nutrients to bring your calcium into the normal range.

Even the pituitary, the master gland of the endocrine system, may suffer immune damage. This rare disorder (termed hypophysitis because "hypophysis" is another name for the pituitary) occurs most often in women during or just after pregnancy. In the thirty patients described in one report, slightly more than half experienced headaches, 32% lost part of their vision (the pituitary is located very near the optic nerves), and most experienced fatigue and weakness as other glands like the adrenals and the thyroid which depend on the pituitary for stimulation begin to fail. Treatment involves replacing the hormones that are lost when pituitary function declines.

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Arthritis

📿 ome patients with Graves' or Hashimoto's disease also have a tendency to certain kinds of tendon and joint inflammation. Painful tendonitis and bursitis of the shoulder, for example, was reported in 6.7 percent of patients but occurs in only about 1.7 percent of the general population.

Rheumatoid arthritis is a more serious disease, in which there is a symmetrical inflammation of many joints of the body, most typically the knuckles, wrists, and elbows. It is also characterized by joint stiffness that is most severe in the morning. Severe rheumatoid arthritis appears to be only slightly more common among patients with thyroid dysfunction than in the general population. If you have hyper- or hypothyroidism you may notice mild morning joint pain and stiffness. If so, like patients with rheumatoid arthritis, you can benefit from treatment with heat, aspirin, and related drugs. On the other hand, some hypothyroid patients have joint pain and stiffness that improves when they are treated with thyroid medication.

Anemia

nemia is a disorder characterized by Aa decrease in the number of red blood cells that carry oxygen to various body tissues. If you have hypothyroidism, you may also have an associated mild anemia as one manifestation of the general slowing of your body functions that occurs in your condition. The anemia usually causes no symptoms and corrects itself when your hypothyroidism is treated. It is not a separate disease, but is due instead to the low thyroid hormone level.

A more serious type of anemia, known as pernicious anemia, is a separate disease that tends to occur in older patients who have or have had Graves' disease or Hashimoto's thyroiditis, and their relatives. This kind of anemia is caused by a deficiency of Vitamin B12.

Under normal circumstances, cells lining your stomach make a substance known as intrinsic factor that enables your body to absorb Vitamin B12 from food. Some individuals lose the ability to absorb Vitamin B12 due to failure of the cells that make intrinsic factor. The damage seems to be caused by a self-destructive process involving the body's immune system, similar to what occurs in Addison's and Hashimoto's diseases.

Vitamin B12 is an important ingredient in the manufacturing of red blood cells, and if levels of this vitamin fall, anemia may result. Vitamin B12 is also important in nourishing your nervous system, so if you develop pernicious anemia, you also may experience numbness and tingling of your hands and feet, loss of balance, and even leg weakness. It is not clear how many patients who have thyroid functional problems also develop

pernicious anemia. Some studies have rin, or one of the non-steroidal antisuggested that as many as 5 percent of inflammatory drugs such as ibuprofen patients with Graves' disease and 10 per- (Advil or Motrin) or Naprosyn. If that is cent of those who have Hashimoto's dis- your situation, your physician may ease may develop this condition.

in later years, it is probably even more common in older patients with either condition. Therefore, it seems appropriate to measure the blood level of Vitamin B in every patient over the age of sixty who has ever had Graves' disease or Hashimoto's Thyroiditis. Doctors do this be- Very rarely, immune processes may decause pernicious anemia is both common stroy large numbers of platelets producand treatable. If your blood level of Vita- ing thrombocytopenic purpura. The word min B12 appears low or borderline low, purpura refers to red or blue bruises another test, known as a Schilling test, which appear on the skin in this condican be performed. This test demonstrates tion, especially on the legs. Tiny purwhether you have difficulty absorbing plish-red spots known as petechiae that Vitamin Bl2 from your food. If you do represent smaller areas of bleeding within have pernicious anemia, it can be easily the skin are also commonly present in treated.

On the basis of new research, your physician may choose to treat you initially with tablets of B12 to see if you are able to absorb enough of the vitamin to restore your blood level to normal and thus cure the condition. However, since your body's ability to absorb B12 tends to decrease with time, you will probably need **O** Reproduced with the kind permission treatment with a monthly intramuscular of injection of Vitamin B12 as you grow older.

Platelet disorders are also more common in this group of thyroid patients than they are in the general population. Normally you have about 2.5 million platelets in every teaspoonful of your blood. Despite their small size, they play a major role in helping your blood to clot normally. Some thyroid patients experience easy bruising due to a decrease in the number or function of their platelets. The bruising can become much worse if you take aspi-

choose to order a platelet count or check your platelet function with a "bleeding Since pernicious anemia tends to develop time" test, which tells how long it takes your blood to clot. He or she may also recommend that you take an alternative pain medication such as acetaminophen (Tylenol) which will not worsen your bleeding tendency.

> this condition. If you develop this type of rash, your physician is likely consider it an emergency and order an immediate platelet count because of the risk of more serious bleeding elsewhere. If thrombocytopenic purpura proves to be your problem, treatment is usually helpful, and often includes steroid medication.

> Thyroid Foundation of America (TFA)

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Robin's

"T.E.D." (Thyroid Eye Disease) Story

I was told when first diagnosed that my concerned about increased double vi- comfortably after a week. I am semi-Graves and my T.E.D. would run 2 sion.... 2 eye specialists thought that after retired but I guess if I was working I different courses so I've always thought the operation my double vision would be probably would have gone back to work of them separately, so here are my ex- similar or worse whilst the other thought about two weeks after the operation. periences with TED so far.

In the beginning

I started having soreness in my left eye when using my computer back in Jan 2004, over 2 years ago and 6 months before the onset 0 f full blown Graves Disease started. My right eve never really got swollen and sore until about September 2004. By 2005 my eyes were pretty bad.... left eye 25mm and right 24mm. They stuck out about 5-6mm more than normal. I had to wear sun glasses all the time, found it difficult to watch TV, go to the movies or look at a computer monitor for very long. Wind in my eyes created havoc causing my eyes to stream with tears... my Graves Disease was and still is a hassle but most of the time with medication I could forget it and move on with my lot but T.E.D. was with me constantly! I also had double vision when reading. The only good news was my primary viewing long distance field of vision was mainly intact, my upward gaze was no good, but I could still play bad golf, bowl and do such things as long as it wasn't too windy.

What to do?

I studied up on the situation and talked to as many people as I could find. It became apparent that it was now too late to consider any drug or Radio Therapy that may or may not have helped the eye muscles swelling. So that left me with the surgery option. I ruled out minor surgery to close my eye lids further over my bulging eyes as I was concerned this may last only temporarily and further drag the process on. I had advice from 3 eye specialists and they all classed my eyes as moderate to severe T.E.D. and all recommended orbital decompression surgery to let my swollen eve muscles settle further back into my head. They all pointed out that whilst it was a long and major operation that we were lucky in Victoria to have a very experienced and expert orbital surgeon available that they were confident in. They all said orbital decompression would definitely get rid of my bulging eyes and I should lose most of my eye soreness and pain. However I was most

I had a good chance of losing it. However, the eye specialists also recommended another highly experienced My double vision continued to improve double vision eye (strabismus) specialist for me to work with post op. So that made me feel a lot better about that risk aspect of orbital decompression surgery.

Making a Surgical decision

So I eventually concluded that the most likely out come would be, I would lose my bulging eyes, have less dryness and pain, but still likely have double vision and it may be worse but through squint surgery and/or special prism lenses that I would be able to get on top of the double them staying there only had about a 50% vision problem with in 4 - 8 months.

I decided after some agonizing that the surgical route end picture looked better than the current one so I booked surgery for Jan 25th 2006!

Operation and recovery

The surgeon did both eyes together which took about 4hrs. I woke up with no pain and past the fingers up eye test. I had no numbness in my face or scalp and it was almost like I had never been operated on. The most discomfort I had was about 6 hrs after the operation when I became quite nauseous and vomited, which wasn't very pleasant. After that I only ate soup and toast for the next day whilst I still felt slightly nauseous. I only had pain I go back to see the Strabismus Specialist when I moved my head and eyes. Whilst I lay still I was quite comfortable with no headaches or anything. I had no loss of feeling to speak of, just a little bit around the eves. It was difficult to see where the surgeon had made the incisions so all in all with my eyes back in my head I was how it is all going in a month or two. really pleased with the result and very thankful for the surgeon's skill. I was in hospital 3 nights, the swelling was worse on the 3rd day but went down quite rapidly after that. I was a good patient and held cold compresses on my eyes nearly all the time. My double vision was pretty bad after the operation but got a little better by the time I went home. My upward gaze was still pretty poor but as prisms with ground lenses which will be most of my friends are less than 7 ft tall, clearer. I'm told the lens will be a bit that is not a real problem! I took it easy thicker but not to much that it would look when I got home but was moving around odd.

Double vision

and after a couple of weeks I had single vision most of the time in my long distance primary viewing area over 5 meters. However it seemed unlikely that I would get rid of my short range double vision so I made an appointment with the double vision (strabismus) specialist for a week later. The strabismus specialist ruled out squint surgery as he said that due to the swollen and changeable nature of my eye muscles that getting my eye muscles correctly aligned and likelihood of success with just one operation. So after much testing he stuck a temporary plastic prism lens onto the inside of my left spectacle lens. As he pointed out I really needed to be wearing glasses all the time anyhow so it didn't really add any difficulties to my way of life.

The prism on my left lens works well and I now have single vision all the time and I am feeling really good with less sore eyes and discomfort than previous. My eyes don't look quite what they did once but that's not all that important to me at my stage in life.

Next move

in two months and he will then either organize for the temporary prism to become permanent or make any changes which may be necessary. see my Orbital Surgeon in another three weeks time, so I will let everybody know

12 Weeks after Operation

Well things have settled down and I've been back to see all the specialists. The Strabismus specialist is still not keen on doing squint surgery on me so I'll stay with prisms for the time being and probably for good, they are working well for me but I will replace the stick on Fennel



Eve lid surgery

My orbital decompression surgeon said I can get my eye lids lowered a little which will further reduce sun glare and wind on my exposed eye whites plus further improve my appearance. So I've decided to get this done 22nd April. I'm told the operation will take 1 to 1 1/2 hrs and I will be in hospital over night with my eyes fully bandaged. Swelling should decrease in a few days and if I was employed I would be back to work in about 2 weeks. Any how I will let you now if that's the way it works out and how it became dependent on them! Even with settles in. At this point I'm glad I had the my prism specs I get a little double vision orbital decompression done, am feeling when reading if my eyes are tired. My really good and am looking forward to getting the eye lids lowered.

Below is my appraisal of the changers that have occurred from before Orbital Decompression Surgery till now (12 weeks after surgery).

My Eyes Improvement Rating after 12 weeks @ 12 / 4 / 06

('10' being extent of how bad it got before operation)

Bulging eyes was 10, now 1. Very big improvement. Eyes were 24 and 25mm, now they are about normal at 18mm.

Eve appearance was 10, now 4. Much improved and quite acceptable to me, but my eyes still don't look quite right, mainly caused by my eyes pointing a little down, left more than right which causes my lids to stay up.

Dry sore eyes were 10, now 5. The first 8 weeks varied a lot day to day, some days my eyes felt a lot better and other days very little difference, but the last 4 weeks has seen a marked improvement. But of course I still have the disease. I still use drops and I still use slip over or clip on polarized lens when around sun and wind. However before surgery I had to use shade welding 5 specs just to watch a large screen plasma TV, now I can get away with just my normal specs, HARD TIMES." so that shows a fair bit of improvement. My surgeon says the further lid surgery to drop my eye lids a little will further reduce the whites of my eyes that Cheers, Robin are exposed and improve dryness.

Eve vision without specs was 10, now 20. Double vision is worse. (before op. D/V was only short range and peripheral where as now with out prisms in my specs I would have double vision over my long range as well. Al-

though to be fair I think if I had not gone to using prisms my long range vision would have eventually returned to normal. but I'm sure my short vision would not have recovered. So I think I made the right decision going to prisms. My upward gaze is still restricted but my sideways gaze has improved.

Eve vision with prism lens specs was 10, now 5. Prism specs have improved my vision but it's now essential that I must wear prism specs all the time. After several weeks of wearing prisms my eyes eyes get tired quickly when I'm reading for more than 30 minutes with out a break. I read for 2 - 4 hours at times but I tend to be often closing one eve and be shifting my vision around when I read for prolonged periods. Overall I would judge with my prism specs things are pretty good. I enjoy my boating, bowling and with my golf I see the small moving ball reasonably well in the distance (usually amongst the trees!).

Strong pain behind left eye was 10, now 0. I did get modest to strong pain pre op. behind left eye in the mornings maybe once or twice a week, it never lasted all that long but it is now gone so that's a plus.

Facial numbness was 0, now 1. I am very pleased with the surgeons skill that I only have a very small numb area on my lower left eve lid which doesn't bother me at all and will disappear over time. Maybe I was a tad lucky as well.

"THANKS EVERY ONE FOR THERE SUPPORT AND WELL WISHES. THE WONDERFUL DOCTORS AND MEDI-CAL CARERS AND A SPECIAL THANKS TO MY WIFE WHOSE LOVE AND SUPPORT HAS MEANT SO MUCH TO ME DURING THE

I'll let you all know how my T.E.D. is Robyn Koumourou going in a few months

A personal note from Robyn Koumourou

wanted to write this letter and send a huge thank you to my fellow colleagues at Thyroid Australia. I have recently had to resign from the Board. I have been ill over the last few months with problems other than my thyroid. My health issues have forced me to take a back step and remain at home to rest and recover.

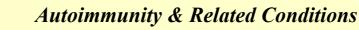
I would like to thank my fellow board members, extended committee and the volunteers I have worked closely with for their friendship and support over the last 6 ¹/₂ years. Your tireless effort and dedication to Thyroid Australia and sufferers throughout this country has been remarkable. I have thoroughly enjoyed working with such passionate and committed people, who truly care for others and desire for them to have a better life. As volunteers we have given so much of our spare time to this very important cause. Hopefully, one day our voices will be heard and positive changes will occur in Australia in the treatment of thyroid sufferers, and more support given to organizations like ours.

Thank you also to the many people I have spoken with on the phone. Your stories, struggles and triumphs have been inspiring and invaluable in the search for understanding and knowledge. Over the next few years I hope to continue in the area of research and hopefully will complete a second book covering all aspects of thyroid disease. I also want to express my appreciation to Thyroid Australia and its members in the support of my first publication, 'Running on Empty'. I hope this has been a blessing for many.

In the meantime, may support of Thyroid Australia continue, so they can continue to support you!

Kind regards,





Scientific Review By Alun Stevens MSc FIAA

Whose Thyroid Hormone Treatment is it Anyway?

I man, a well known and respected Brit- therapies many of whom promote their tests is particularly problematic because ish endocrinologist, reflected and com- particular approach by representing the the tests are statistically based. They remented in the March 2006 edition of medical establishment as ignorant and flect the averages in the non-thyroid af-Clinical Endocrinology on the current uncaring. state of the debate over hypothyroidism treatment. The article provides a good Weetman's response, rather than answer- abilistic. To be scientifically objective, illustration of the views of the medical ing these challenges is a good example of one can only ever say that a result has a profession in response to increasing de- the approach and attitude of the medical low, medium or high probability of being mands from patients.

by advocacy by various groups in the UK against the current norms of clinical prac- His first is simply that we live in a post problem, but in many others it is. tice in this area and in particular by the modern society characterised by the lodgement of a petition by a group of UK world view that objective facts are unim- For instance, a TSH reading above 5.0 patients with a Member of Parliament portant and reality has many meanings. In has such a low probability of being norand the UK General Medical Council as a other words, patients feel justified to re- mal that a doctor can safely say it is cateformal complaint against the clinical ject and ignore objective facts as pre-gorically abnormal. He or she would only practice of the majority of the medical sented by the scientific medical profes- be wrong a couple of times in a lifetime profession with regard to the diagnosis sion if these facts clash with the patient's of practice. and management of hypothyroidism on subjective reality. four counts:

- 1. patient and a clinical appraisal.
- 2. disregard by the majority of general practitioners and endocrinologists over the suffering experienced by untreated/incorrectly of these patients.
- Stubbornness of general practitio-3. roidism with a level of medication ence. that returns the patient to optimum ness to prescribe alternate thyroid treatment for patients on individual grounds... such as Armour thyroid.
- 4. The ongoing reluctance to encourhypothyroidism.'

The themes of the petition are common themes across the world amongst some tions is never sufficient. It is the meaning dose is correct. If the patient has no patients and patient support groups and of these concentrations that is always the symptoms, it would be safe and sensible reflect common approaches by the medi- issue and the interpretations are not facts, to conclude that the result is normal. But cal professions in many countries includ- they are opinions and are frequently not if the patient has persistent symptoms of ing Australia. They also reflect the objective.

t is under this heading that AP Weet- growth in movements for alternative The interpretation of thyroid function

profession that has actually led to these normal. No result is ever a certainty. Decomplaints. He gives two reasons for spite this, virtually all doctors will state The article, it would seem, was prompted rising patient dissatisfaction and mistrust. categorically that a result is either normal

Over-reliance on thyroid blood with his view that patients presenting thyroid medication, it has a high probtests and a total lack of reliance on with multiple ongoing symptoms despite ability of being normal. Most people have signs, symptoms, history of the normal thyroid function tests generally a reading near to this and it is a long way have functional somatoform disorders - from the upper levels recorded in the nor-The emotional abuse and blatant that is psychological conditions that pro- mal population. The result cannot be induce physical symptoms. In other words terpreted as categorically normal. The these people think they have a problem so high probability of normality would supthey develop symptoms and because they port the view that presenting symptoms have the symptoms, they must have the are probably due to something other than treated thyroid patients and their condition so it is the tests that must be a thyroid problem. Ascribing the symplack of compassion over the fate wrong or ineffective. This attitude that toms to thyroid problems would only be patients with persistent symptoms must correct very occasionally. But these occabe psychologically disturbed is undoubt- sions will occur and should be kept in ners and endocrinologists to treat edly one cause of the claims for emo- mind. patients suffering from hypothy- tional abuse, stubbornness and indiffer-

> ment though is that it assumes that the about a 60% probability of being within results of thyroid function tests are ap- the normal range for the individual preplied as objective scientific facts in clini- senting. This is because individuals have only to the extent that they show the con- is definitely not capable of objectively

flicted population. Their proper interpretation can therefore only ever be probor not. In many instances, this is not a

A TSH reading of 1.5 however is much He couples this post modern approach more problematic. For someone not on

For someone taking thyroxine replacement, the situation is different and more health. In addition the unwilling- The primary failure of Weetman's argu- problematic. A TSH reading of 1.5 has cal practice. Modern hormone assays are much narrower personal ranges than the extremely accurate. Test results are fac- overall population range. 60% is only age debate or further research on tual, but they are objective scientific facts slightly better than an even money bet so centration of certain hormones at a point sustaining a categoric interpretation that in time. Simply knowing the concentra- the result is normal or that the thyroxine hypothyroidism, it would be quite unsafe



cause this interpretation will be objec- with regard to the diagnosis of subclinical managing patients whose health problems tively wrong in close to 50% of cases.

The scientifically inappropriate interpretation of test results as categorically normal when they are not leads doctors to ignore patients' views and the symptoms and is undoubtedly a cause for the first three complaints in the petition. The problem is not a post modern clash of feelings versus facts. The problem is a lack of appropriate methodologies for interpreting the objective facts.

Weetman acknowledges this in his second reason for patient dissatisfaction Despite his unsupported and somewhat which he states as 'any innate sense of arrogant attack on patients' perceptions, disbelief (by patients) in science has been Weetman's final recommendations to heightened by the lack of consensus doctors are sensible and heartening. He

Editorial from page 1

Full of enthusiasm and drive, Robyn told us at that launch she was so committed to helping others she intended to write a book - which she promptly did. "Running on Empty" was published in 2004 and has continued to sell well ever since. At the same time, Robyn was a dedicated telephone volunteer, helped in the office and was an active board member - not to mention looking after her family of John and the two girls. No doubt many of you have had personal contact with Robyn and you will join me in wishing her well. Robyn is having a well-earned rest and recuperation.

The very good news is that we welcome our new office manager to Thyroid Australia. Brenda Stocks started in February this year and works part-time four days a week. She has had a baptism of fire with us still struggling with the backlog of admin work left over from the closure of the office for renovations in late 2005. Chorus: We welcome Brenda. She has been a godsend already. With a couple of new volunteers recently started, we now have a really effective office operation. Though - if you want to help in the office masses of golden hair; - we can still do with your assistance. Ring Brenda if you are interested.

We are now starting to make headway with the backlog. We have sometimes been slow in banking cheques, responding to requests for information, and such things. Thank you all for you patience as we get on top of this situation.

The other good recent news is of our Scott's Emulsion.

hypothyroidism, its importance, and the cannot be explained and the focus should need for treatment.' He goes further by be on the patient's concerns, the relief of stating, 'The difficulty we face as clinicians in formulating guidelines, or more commonly in judging how to apply them to our own practice, stems from our individual perceptions of benefit and risk.' This is an acknowledgement that medical methodologies are not fully robust or objective. The clash is not between patients' perceptions and objective medical and doctors' perceptions.

to conclude that the result is normal be- amongst endocrinologists, particularly says, 'Communication lies at the heart of symptoms and the avoidance of alienation. Finally, we should retain our own sense of perspective, scepticism and humility.' The adoption of these principles by the medical profession would go a long way to providing better outcomes for patients because it is their 'Thyroid Hormone Treatment'.

> facts. It is between patients' perceptions AP Weetman, 'Whose Thyroid Hormone Treatment is it Anyway?', Clin Endocrinol. 2006;64(3):231-233.

> meeting in Brisbane at the end of April. She took liver, she took yeast, but still Alun Stevens presented his introductory her clientele decreased. talk on thyroid conditions and their treatments. Over 160 people attended this meeting and, on behalf of all those who attended. I thank Alum for his contribution. We look forward to a continuing anaem-i-a. and active group in Brisbane.

Lyrics of as a song provided by Christopher McDermott about someone with an autoimmune condition. Please note we have not referred the remedies taken by Lillian to our medical advisory committee and cannot endorse her actions-nor recommend her fate!

Lillian's story

Lil was a girl, she was a beauty, she lived in a house of ill-reputee;

She drank deep of the demon rum, and she smoked hashish and opium.

Oh, de boom boom, de boom boom, de boom boom boom

She was young and she was fair, she had

Folks they came from miles to see Lil in her deshabille.

Day by day that girl grew thinner from insufficient protein in her,

Till at last the day came when she had to cover up her abdomen.

She took sunbakes in the sun, she took

She consulted a physician who prescribed for her condition;

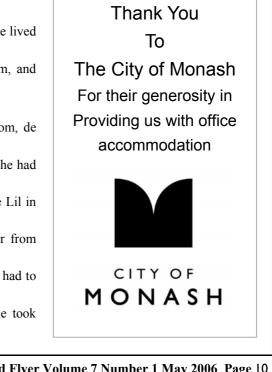
She had, as the doctors say, pernicious

As Lil lay there in her dishonour she felt the hand of the Lord upon her.

She said, "O Lord, I will repent, but that must cost you fifty cents."

Lil she died and went to Hell, to live with Delilah and Jezabel;

Now she's working from five to nine as Satan's favourite concubine!





Meetings and Support Groups

Perth

Gold Coast / Tweed Heads Dates not yet announced Contact office for more information

Brisbane North Side Chermside Library 2pm-4pm

Jun 3rd / Aug 5th / Sept 16th [Oct 14th Seminar (Bookings essential)]

Brisbane South Side

Sunnybank Hills Library 2pm-4pm May 13th / Oct 21st / Nov 25th

Thyroid Australia Inner Melbourne Support Group

On 24 May 2005 Thyroid Australia held it's first support group for people in the Melbourne metropolitan area. It was held in the North Carlton Railway Station Neighbourhood House at 20 Solly Avenue, North Carlton.

Although there were only ten people attending (all women) it was a huge success. At the end of the meeting they asked, "When are you holding the next one? Next month?" So they were certainly very pleased with the way things went and obviously gained something by attending.

10th June and 22nd July - 10.30am Contact office for more information Support Group Meetings Salvation Army Hall 565 Walter Road East (c/- Wicks St) Morley WA **Inner Melbourne** Dates not yet announced Contact office for more information Support Group Meeting Nth Carlton Railway Station

Neighbourhood House 20 Solly Ave

There was no guest speaker as such, but on 12th July. It attracted a fewer number each woman was able, in some cases for of people, but some had come from long the first time, to be able to tell her story distances in order to attend. It followed and how having a thyroid condition had the same format as the first day meeting affected her life and the lives of her family and friends.

We covered the full gamit of illness, from thyroid cancer, hypothyroidism, Hashimoto's, goitres, thyroidectomies, hair loss, Graves disease, infertility, miscarriage, depression, looking at blood test. The last meeting we held was on 26 July results and weight gain.

The meeting ran over time with everyone getting in small groups to discuss things in more detail and exchange information on good doctors worth visiting.

The next meeting was held in the evening

Princess Hill VIC

South Gippsland

Fourth Monday of Each Month 10.30am Support Group Meetings Foster Community Health Centre 93 Station Rd

Foster VIC

Melbourne

12th Nov - 2pm to 5pm Public Meeting & AGM Royal Children's Hospital The Murdoch Institute, 10th Floor

and again, the response from people was heartfelt. They were pleased to tell their stories and be heard by sympathetic ears. Holding an evening meeting made it possible for those that work during the day, to attend.

and we had a full house. Robyn Koumourou did an excellent job as guest speaker, her topic, "Thyroid gland disorders".

For my part, all the hard work and many hours spent in getting everything organised was well worth it Karen

Please copy or detach and mail to the address below. \times **Request for Membership Application Form and Information** I am interested in learning more about my thyroid condition and about Thyroid Australia. Please send this information to: Disclaimer Title: Name: All materials provided by Thyroid Address: Australia Ltd are for information purposes only and do not constitutePhone:.... medical advice Date:Signature:

> Thyroid Australia Ltd ACN 094 832 023 ABN 71 094 832 023