HAIR

by Derek R. Copperthwaite

LL HAIR-CAUSING DRUGS fall into one of only two types: those that contain natural or synthetic hormones, and those that do not contain hormones but have the capacity to disturb the normal functioning of the body's endocrine system. Surprisingly, there are only a dozen or so preparations on the market that appear in the latter group. The great majority belong in the first-mentioned category, with the drugs that contain actual hormones (more specifically, the so-called "sex hormones").

The Sex Hormones

The sex hormones fall mainly into three classes: **androgens**, the male hormones (fluoxymesterone, methylestosterone and testosterone), and two groups of female hormones, the **estrogens** (chlorotrianisene, conjugated estrogens, esterified estrogens, estradiol, diethylstilbestrol, estrone, estropipate, ethinyl estradiol, and quinestrol), and the **progesterones** (hydroxyprogesterone, medroxyprogesterone, megastrol, norethindrone and norgestrel).

Androgens

Androgens (Table 1), the so-called "male hormones," stimulate the hair follicles and the sebaceous glands and are responsible for changing fine, vellus hairs into thick terminal hairs. In men, these powerful hormones are used as replacement therapy for conditions associated with testosterone deficiency, such as impotence, hypogonadism and the male climacteric. They may also be prescribed for women with menorrhagia, senile and idiopathic osteoporosis, delayed bone healing, and frigidity.

Among androgen's many undesirable side effects for women are clitoral enlargement, female virilization, seborrhea and acne, male pattern baldness and hirsutism.

Estrogens

Like the androgens, estrogens (thought of as "female hormones") are found in both sexes, but by far the greatest levels are generated by the ovaries of the female. These hormones have the ability to promote estrus and stimulate the development of secondary sex characteristics. In drug therapy they are widely used in the treatment of ovarian failure (or removal) in young women, and for menopausal syndrome, postmenopausal atrophy of genital tissues, and postmenopausal osteoporosis, as well as certain kinds of breast cancer.

Adverse effects that may be associated with estrogen replacement drugs include breast enlargement, changes in cervical secretion and menstrual flow, changes in sex drive, fluid retention, weight gain or loss, depression, dizziness, skin irritation, darkening of the skin, and – most importantly – increased risk of cancer of the uterus after three years of continual use. As is the case with all sex hormones, estrogens list excessive hair growth (and possible hair loss) among their undesirable side effects. (Table II)

Table I: Brand name adrogen drugs

ANDROGENS

Male Hormones, including *fluoxymesterone*, *methyltestosterone*, *testosterone*.

Alomon Anabolin Anabolin D Anabolin La-100 Anadrol-50 Anapolon Andro 100 Andro L.A. 200 Andro-Cyp 100 Androderm Android Android-F	Durabolin Duratest Dura-Testosterone Durathate-200 Equibolin-50 Everone Fluoron Fopou Forton Fuloan Halotestin Histerone	Oreton Oreton Methyl Oxandrin Pri-Andriol La Primotest Primotest Depot 200 Protabolin Shotest Stromba T-Cypionate Testa-C Testamone-100
Androlan		
Androlone	Homogene-S Hybolin Decanoate	Testaspan Testex
Androlone D	Hybolin-Improved	Testo-B
Andronag-50	Hysterone	Testoderm Transdermal
	Kabolin	
Andronaq-La		Testoject FO
Andropository Androral	Ladagol Madiol	Testoject-50 Testolin
Andryl 200	Malogen	Testone L.A.
Cyclomen	Mastodanatrol	Testopel
Danocrine	Meditest	Testred
Danotab	Menabol	Testred-Cypionate 200
Deca-Durabolin	Metandren	Testrin-P.A.
Delatest Delatest	Metestone	Testro Aq
Delatestryl	Nandrobolic	Testro-L.A.
Dep-Andro	Nandrobolic L.A.	Theraderm
Depo-Nandrolone	Nandrocot	Tone-Tes
Depotest	Nandrolate	Vigorex
Depo-Testosterone	Neo-Durabolic	Virilon
Dequibolin-100	Oratestin	Virolon Im
D-Tes	Ora-Testryl	Winstrol
	7.9	

Progesterone

Along with estrogen, a woman's ovaries produce progesterone, (Table III) the principal progestational hormone (often referred to as progestin). It is the natural function of progesterone to prepare the uterus for pregnancy and ready the breasts for lactation, but in hormone therapy its use is extended to include treatment for weight loss, cancer of the breast and uterus, and conception control.

The possible side effects of progestin therapy are much the same as those given for other female sex hormones: appetite or weight changes, breast tenderness or enlargement, blood clots, menstrual cycle changes, depression, hair loss, and excess hair growth.

Oral contraceptives

Oral contraceptives, (Table IV) universally known as OCs or "The Pill," consist of synthetic forms of estrogen

and progesterone combined in a single tablet. A less common tablet, one containing only progesterone (or progestin), is sometimes referred to as the "mini-pill."

Estrogen and progesterone normally regulate a woman's menstrual cycle and the fluctuating levels of these hormones play an essential role in pregnancy. By suppressing pituitary hormones that stimulate ovulation, the pill creates in the blood the same chemical environment that exists during pregnancy, and thus becomes a highly effective form of birth control.

However, when the actions of estrogen and progesterone are translated to the pill, a long list of possible side effects (as noted above for female hormones) is generated. Among the 30 to 40 possible "adverse reactions" enumerated, the most important for electrologists are those to cause a negative

Table II: Brand name estrogen drugs

ESTROGENS

Female Hormones, including — *chlorotrianisene*, conjugated estrogens, esterified estrogens, estradiol, diethylstilbestrol, estrone, estropipate, ethinyl estradiol, and quinestrol.

Alora Amnestrogen Azumon Bestrone C.E.S. Cenestin Climara Conjugated Estrogens Conjugen Deladiol-40 Delestrogen Depgynogen Depo-Estradiol Depogen DES D-Est 5	Estone L.A20 Estra-C Estrace Estraderm Estradurin Estragen 5 Estragen LA 5 Estraguard Estra-L Estratab Estra-V Estring Estro-A Estro-Cyp Estrofem Estroject-L.A.	Kestrone 5 L.A.E. Lanestrin Mannest Medidiol 10 Menaval Menest Menopak-E Mikrofollin Milprem Ogen Ortho-Dienestro Ortho-Est Ovest Pan-Estra La 40 Piperazine		
		Milprem		
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Diol L.A.	Estro-L.A.	Premarin		
Dioval	Estronol	Premarin Creme		
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Estinyl	HUHVUI	Wehgen		

skin reaction: hives, acne, itch, skin rash or discoloration (brown blotching), and "excessive growth of hair on the face, back, chest, or stomach."

Other hormonal methods of contraception, such as implants and shots, involve the same drugs and have the same potential side effects. To help reduce these side effects, oral contraceptives are available in a wide range of estrogen and progesterone concentrations.

Corticosteroids and Hair Growth

Next to the sex hormones, the hormones of most importance to electrologists are the corticosteroids, the steroid hormones produced by the body's adrenal gland in both men and women.

In addition to secreting a small amount of the sex hormones (largely provided by the male testes and the female ovaries), the adrenal cortex produces aldosterone - which causes the kidneys to excrete potassium and retain sodium, cortisol, corticosterone, and cortisone – that together help the body resist stress, metabolize food intake, control immune response and inhibit inflammation.

Cortisone is by far the best-known of the adrenal steroids – many people, in fact, refer to all the steroids as cortisone – but in fact it is rarely prescribed today because of its propensity to cause sodium and water retention and potassium deficiencies. However, modern synthetic steroids have fewer of these side effects.

Cortisone is largely inactive in the

Table III: Brand name progesterones

PROGESTINS (Progesterone) Female hormones, including hydroxyprogesterone, medroxyprogesterone, megestrol, norethindrone,

Amen Aragest Asconale Aygestin Clinovir Curretab Cycrin Depo- Provera Hysron Lutoral	Magace Med-Pro Megace Milligynon Niagestine Nordron Norlutate Norplant Prodasone Progeston Provera

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body until it is converted to hydrocortisone. Synthetic versions of hydrocortisone, like their natural counterparts, are not often given internally but are in common use as topical preparations (creams, ointments, gels and solutions) to treat inflammations, allergies, pruritus, and collagen diseases.

Prednisone is a synthetic steroid derived from cortisone. Its effects are much the same, except that it causes less sodium and water retention. Prednisolone is chemically very similar to prednisone, with virtually the same effects. Dexamethasone, methylprednisolone, and triamcinolone are synthetic adrenal steroids closely related to prednisolone.

All of the steroids (excluding the sex hormones) elaborated by the adrenal cortex and all their synthetic equivalents (including but not limited to: betamethasone, cortisone acetate, desonide, dexamethasone, fluocinolone, fluocinonide, halcinonide, hydrocortisone, meprednisone, methylprednisolone, prednisolone, prednisone, and triamcinolone) are, in this article and its tables, and in the International Hair Route Drug Chart[®], col-

Table IV: Brand name oral contraceptives

ORAL CONTRACEPTIVES

Combining synthetic versions of two female hormones: *estrogen* and *progesterone* (progestins).

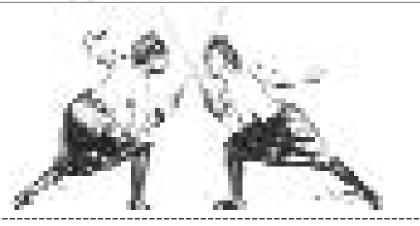
Alesse	Lutolin-S	Orlest
Anovlar	Marvelon	Ortho 1 35
Anovulatorio	Metrulen	Ortho 7 7 7
Brevicon	Micronor	Ortho Cyclen
Ciclovulan	Milli	Ortho Tri-Cyclen
Cilest	Minigynon	Ortho-Cept
Conova	Minovlar	Ortho-Novin
Demulen	Min-Ovral	Ortho-Novum
Depo-Provera	Mircette	Ovcon
Contraceptive	Modicon	Ovral
Desogen	N.E.E.	Ovrette
Dianor	Nelova	Ovulen
Estrostep Fe	Nodiol	Primulut
Gencept	Norcept-E	Progestaject-50
Genora	Norcolut	Progestasert
Gesterol 50	Nordette	Progestrone
Jenest-28	Norelestrin 28	Prometrium
Levlen	Norethin	Rogest 50
Levora-21	Norethisterone	Synphasic
Levora-28	Norinyl	Tri-Levlen
Lo Ovral	Norlestrin	Tri-Levlen 21
Lo/Ovral	Norlestrin Fe	Tri-Norinyl
Loestrin	Norlutin	Triphasil
Loestrin Fe	Nor-QD	Trivora
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lectively referred to as corticosteroids. The number of brand name drugs in this category is vast.

Fifty years ago, the advent of corticosteroids was heralded as one of the greatest advances in dermatologic therapy, and since that time the list of cortisone-like drugs on the market has skyrocketed. (Of the 966 drugs on International Hair Route's master list of drug products which include hirsutism as a possible adverse side effect, more than 58% percent are corticosteroids.) They are administered either orally, parenterally, or topically for the treatment of a wide variety of allergic and inflammatory conditions. All of the preparations – especially the hydrocortisones – carry warnings reminding the consumer that when the drug is used topically some of it is inevitably absorbed through the skin and enters the bloodstream. The absorption of too much hydrocortisone can lead to unwanted side effects such as acne-like skin eruptions, blistering or peeling, redness, secondary infection, itching, and burning. Extensive or long-term use can cause glandular problems, high amounts of sugar in the blood or urine, Cushing's syndrome, and excessive hair growth.

HAIR GROWTH AS A SIDE EFFECT OF MEDICATION

Before an electrologist can begin treatments on a new client, a client case-history form has to be completed. The more comprehensive this document is, the better, because the practitioner must be aware of everything that might point to the underlying cause of the client's hair growth problem. Is the cause genetic? Or is it due to a health disorder? Is it what the medical profession calls idiopathic hirsutism ("cause unknown"), or does it originate with a medication that has been prescribed by the client's physician for a different health problem? Whatever the case, as much background information as possible has to be ascertained before the electrologist can provide proper treatment. Understanding the cause of the hirsutism is an important part

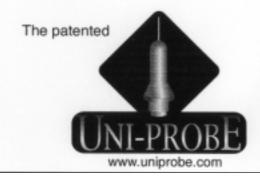
One of the most important entries in the case history record (more important perhaps than many electrologists realize), is the question that

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Excessive hair growth that can be directly attributed to medical drug therapy is called "iatric hirsutism" (*iatric* being a Greek word pertaining to medicine or to a physician). And those drugs in the pharmaceutical directory that officially include "excessive hair growth" (or similar) in the list of possible side effects, are certainly of serious interest to electrologists.

Research by *International Hair Route* to produce a complete and authoritative account of all the proprietary drugs that can cause iatric hirsutism has resulted in a list of almost 1,000 brand names (see pull-out pages (20-25)

Drugs and Hormones

Any discussion of the relationship between drugs and hair growth must begin with a brief review of the body's endocrine system, for it is from this source – with only a few rare exceptions – that all cases of women's hirsutism originates.

It is quite normal for young females to have strong, healthy scalp hair, eyebrows and eyelashes, and – following the onset of puberty – on the genitals and in the armpits. Also acceptable under the definition of normal is a certain amount of terminal hair on the legs and forearms, even though a woman might consider such hair abnormal and want it removed.

The pattern of hair growth for a young male is the same as that of the female until puberty, when higher concentrations of the so-called "male sex hormones" (present in both men and women) and heredity conspire to expand the sexual hair of the man to include the upper lip, beard area, neck, chest and escutcheon. The degree of hairiness on the extremities of men is also usually greater too, and may be widely distributed to include the thighs, the upper arms, nape of the neck, shoulders and back.

These are, more or less, the normal patterns of hair growth for humans; and physicians, electrologists and cosmetologists who specialize in hair removal do not enter the picture unless an individual comes to the conclusion that the type or amount of hair on his or her body

continued on page <None> continued from page 34

is either unhealthy, uncomfortable, or socially unacceptable.

The hair of the scalp, eyebrows and eyelashes is mostly androgen independent, meaning that it is not totally reliant on the male hormones for its growth. The opposite is true for the sexual hair that appears at puberty. It is very dependent on androgens, especially testosterone, the major hormone affecting the growth of hair.

When things are working as they should, testosterone is converted in the hair follicle to another hormone, dihydrotestosterone, by the enzyme 5 alpha reductase. If for any reason there is a dysfunction of the endocrine system or its individual glands – thereby raising or decreasing androgen production – the normal patterns of hair growth are inevitably disrupted. Too little testosterone (an extreme example would be the eunuch) will result in the loss of sexual hair. Too much testosterone will lead to an excess of sexual hair, the condition we call hirsutism.

The sheer complexity of the endocrine system makes it vulnerable to breakdown. Endocrine hyperfunc-

tion and hypofunction may originate with the pituitary – the master gland - or with any of the target glands themselves. Tumors can also appear in other parts of the body, like the lungs or stomach, and produce hormones that cause endocrine dysfunction. Multiple cysts on the ovaries could possibly be the cause of a woman's hirsutism, or maybe the medication she is taking for high blood pressure is at the root of her problem. These and countless other conditions can interfere with the ability of the sex hormone-producing glands - the ovaries (in women), the testes (in men) and the adrenals of either gender - to secrete the optimum amount of testosterone into the system.

It will come as no surprise to electrologists to learn that the drugs which are most likely to list excessive hair growth as a possible adverse reaction are those which contain sex hormones (or their synthetics).

Please refer to pages 20 - 25 and our web page, www.hairroute.com for the complete *International Hair Route* Drug Chart[©], listing all the drugs, drug tables

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