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## HT Product With Drospirenone Wins Approval

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combination hormone therapy that contains drospirenone was approved in late September for treating moderate to severe vasomotor symptoms and moderate to severe symptoms of vulvar and vaginal atrophy associated with menopause, the first such product to contain this particular progestin.

The approval came with certain warn-

ings in the label related to the potential for hyperkalemia associated with the progestin component. The product—which contains 1 mg estradiol and 0.5 mg drospirenone (DRSP), a synthetic progestin and spironolactone analog with antimineralocorticoid activity—will be marketed by Berlex as Angeliq. The approved dose is one tablet daily.

The product will not be available until mid-2006, according to Berlex, which also manufactures Yasmin, the oral contraceptive that contains DRSP as its progestin component.

In addition to the standard contraindications and warnings that are included in the FDA-approved labels of all hormone therapy (HT) products, the Angeliq label includes a warning about the potential for hyperkalemia in high-risk patients, because DRSP has antialdosterone activity. The warning also notes that the product should not be used in women with renal or adrenal insufficiency, hepatic dysfunc-

earrugers and programments. Carbohydrate and Lipid Metabolic Effects: Oral contraceptives have been shown to cause glucose intolerance in a significant percentage of users. Oral contraceptives containing greater than 75 micrograms of extroners cause hundrins ulinism while lower doses of extroner cause less

tion, or other conditions that predispose people to hyperkalemia.

It should be used with caution in women on other medications that can increase potassium, including NSAIDs, potassium-sparing diuretics, ACE inhibitors, or angiotensin II receptor antagonists. The label says that checking serum potassium levels during the first treatment cycle in women at high risk should be con-

FDA approval for the indication was based on a study showing that the estradiol component of Angeliq was bioequivalent to a currently marketed estradiol product (Estrace). In another study on the endometrial effects, there were no cases of endometrial hyperplasia among almost 200 patients who had received the product for up to 12 months.

For relief of symptoms, "it's another option that physicians can add to their armamentarium of the whole range of



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DR. UTIAN

products now available," Wulf H. Utian, M.D., executive director of the North American Menopause Society, said.

Because of its chemistry, Angeliq is less likely to cause fluid retention "at least in theory," and potentially might be associated with fewer of what he calls the "nuisance symptoms" that some women experience with progestin, such as a bloated feeling; tender breasts; sleepiness; or a reduced sense of well-being or slightly depressed mood, Dr. Utian noted.

But because HT products are not directly compared in clinical trials and there are no published data on this issue, he said it was difficult to comment on the effect that the DRSP component might have on mitigating these types of side effects. Nevertheless, Dr. Utian said that he welcomed the availability of a new HT product as a positive development because it increased the number of treatment options for women, who react to different progestins in different ways.

What remains are major unresolved safety questions regarding the longer term use of progestins in general, when used with estrogen, Dr. Utian noted. Those questions are whether progestin administered with continuous estrogen treatment slightly increases the risk of breast cancer beyond 5 years of use, which has been observed in the WHI and other studies, and whether the progestin component may be responsible for the slight increase in coronary heart disease observed in the WHI and the Nurses' Health Study.

Dr. Utian, a gynecologist at the Cleveland Clinic Foundation, Cleveland, was not an investigator in Angeliq trials, but he is the director of a research institute that is currently conducting a study of this product.

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Patients should be counseled that this product does not protect against HIV-infection (AIDS) and other sexually transmitted dis

- Hepatic Neoplasia: Benign hepatic adenomas are associated with oral contraceptive use, although their occurrence is rare in the United States. Indirect calculations have estimated the attributable risk to be in the range of 3.5 cases/100,000 for users, a risk that increases after four or more years of use. Rupture of hepatic adenomas may cause death through intra-abdominal hemonthage.

  Studies from Britain have shown an increased risk of developing hepatocellular carcinoma in long-term (>8 years) oral contraceptive users. However, these cancers are externely rare in the U.S., and the attributable risk (the excess incidence) of liver cancers in oral contraceptive users approaches less than one per million users.

And the providers should refer to the label of the individual anti-HIV probase inhibitors for further drug drug interac-torization. Outcome the products containing St. John's Wort (hypericum perforatum) may induce hepatic enzymes (cytochrome P450) coprotein transporter and may reduce the effectiveness of contraceptive steroids. This may also result in breakfrour ph beeding, may level of estradioil associated with co-administered drugs. Co-administration of advorsation and certain combination or all maintenance of the product of the productive of

The Rentino Transcribed with caution, and only with careful monitoring, in patients with coudins which might be aggravated by fluid retention. They should be prescribed with caution, and only with careful monitoring, in patients with conditions which might be aggravated by fluid retention.

• plasma levels of co-administrateur usugo. \*\* occurrences de plasma concentrations of cyclospouru, preurisonan en array inhibit the metabolism of other compounds. Increased plasma concentrations of cyclospouru, preurisonan et al vinitario concentration of combination or al contraceptives. Decreased plasma concentrations of acatamin learance of ternizepam, salicytic acid, morphine and colifibric acid, due to induction of conjugation have been noted when the instered with combination oral contraceptives.
Ins with Laboratory Tests: Certain endocrine and liver function tests and blood components may be affected by oral contraceptives.
Ins with Laboratory Tests: Certain endocrine and liver function tests and blood components may be affected by oral contraceptive promotion and factors VII, VIII, IX, and X, decreased antithrombin 3; increased no reprineiphrine-induced platelet agreement and the promotion of the promo

- Increased priori orbinal and abouts viii, Viii, x, abit x, over-sease abilituoritudi x, increased increased priori bilinding plobini (FBB) leading to increased creating total thyroid hormone, as measured by protein-bound other (PBI), 14 by column or by additionation assistance of the concentration is unablered. Other binding proteins may be elevated in serum. Sex hormone binding plobalitis are increased and result in elevated levels of total circulating sex steroids and corticoids; however, free or biologically active levels remain unchanged.
- uniogically active levels remain unchanged.

  Triglycerides may be increased and levels of various other lipids and lipoproteins may be affected.

  Glucose tolerance may be decreased.

  Serum foldate bees may be depressed by oral contraceptive therapy. This may be of clinical significance if a woman becomes preshortly after discontinuing oral contraceptives.

OVERDOSAGE: Serious ill effects have not been reported following acute ingestion of large doses of oral contraceptives by young children. Overdosage may cause nausea, and withdrawal bleeding may occur in females.

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