# CBT Effective for Cannabis Users in Small Study

# BY CAROLINE HELWICK

#### FROM THE ANNUAL CONGRESS OF THE EUROPEAN COLLEGE OF NEUROPSYCHOPHARMACOLOGY

AMSTERDAM – A targeted cognitivebehavioral treatment program designed by German addiction specialists for cannabis use disorder promoted abstinence in 40% of subjects at 6 months, and significantly reduced global addiction severity and psychopathological symptoms.

The approach was described at the congress by Hans-Ulrich Wittchen, Ph.D., director of the Institute of Clinical Psychology and Psychotherapy at Technische Universität Dresden.

A good percentage of participants was abstinent 6 months after treatment, even when urine tests are done. "This is a remarkable finding that we did not expect at the beginning," Dr. Wittchen said.

For many individuals, cannabis is the primary drug of abuse. Regular heavy use is associated with a substantial risk of a cannabis-dependence syndrome and when this is combined with other substance-abuse and internalizing disorders, the result is often psychosocial, cognitive, and mental health problems.

"Cannabis use is regularly associated with a wide range of psychological symptoms, and the largest group has anxiety and depression. Patients with primary CUD [cannabis-use disorder] have become the largest group in substanceabuse centers in many European countries. These individuals have different profiles and treatment needs that are not being met in the current health care system. No clear interventional strategies have been developed," Dr. Wittchen said. *Continued on following page* 

# Extended-Release Tablets

BRIEF SUMMARY. See package insert for full Prescribing Information. For further product information and current package insert, please visit www.wyeth.com or call our medical communications department toll-free at 1-800-934-5556.

WARNING: Suicidality and Antidepressant Drugs

Wanning, Subdainly and Altuepressan Drugs Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of Pristig or any other antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. Pristig is not approved for use in pediatric patients [see Warnings and Precautions (5.1), Use in Specific Populations (8.4), and Patient Counseling Information (17.1 in the full prescribing information)].

INDICATIONS AND USAGE: Pristiq, a selective serotonin and norepinephrine reuptake inhibitor (SNRI) is indicated for the treatment of major depressive disorder (MDD).

CONTRAINDICATIONS: Hypersensitivity-Hypersensitivity to desvenlafaxine succinate, venlafaxine hydrochloride or to any excipients in the Pristiq formulation. Monoamine Oxidase Inhibitors-Pristiq must not be used concomitantly in patients taking monoamine oxidase inhibitors (MAOIs) or in patients who have taken MAOIs within the preceding 14 days due to the risk of serious, sometimes fatal, drug interactions with SNRI or SSRI treatment or with other serotonergic drugs. Based on the half-life of desvenlafaxine, at least 7 days should be allowed after stopping Pristig before starting an MAOI [see Dosage and Administration (2.5) in the full prescribing information].

days should be allowed after stopping Pristig before starting an MAOI [see Dosage and Administration (2:5) in the full prescribing information]. WARNINGS AND PRECAUTIONS: Clinical Worsening and Suicide Risk-Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of value and the sabeen a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled studies of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidality in children, adolescents, and young adults (ages 18-24) with major depressive disorder (MDD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults aged 56 and older. The pooled analyses of placebo-controlled studies in children and adolescents with MDD, obsessive-compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term studies of antidepressant drugs in over 4,400 patients. The pooled analyses of placebo-controlled studies in adults with MDD or other psychiatric disorders included a total of 295 short-term studies (median duration of 2 months) of 11 antidepressant drugs in over 7,000 patients. There was considerable variation in risk of suicidality arcross the different indications, with the highest incidence in MDD. The risk of absolute risk of suicidality al of 16 the full prescribing information. No suicides occu These risk differences (tup) above the lattery state within age state and actoss indicators inclusions treach any conclusion about drug effect on suicide. It is unknown whether the suicidality per 1000 patients treated) are provided in Table 1 of the full prescribing information. No suicides occurred in any of the perfaints studies. There were suicides in the adults that is built to the number was not sufficient to reach any conclusion about drug effect on suicide. It is unknown whether the suicidality risk extends to longer-term are suicides in adults with depression that the use of anticepressants can delay the recurrence of depression. All patients being treated with anticepressants for any indications should be monitored appropriately and observed closely for clinical worsening, suicidality, and unsual changes in behavior, especially during threated with anticepressants (a dispect of the suice) and the suice of anticepression should be monitored appropriately and observed closely for clinical worsening of other indications, both psychiatric and nonspicihatric. Although a causal link between the emergence of suicidal inputs shares of despective services and the pression advective as well as for other indications, both psychiatric and nonspicihatric. Although a causal link between the emergines usicidality. Consideration should be expension is persistently worse, or who are experiencing emergint suicidality or symptoms that abut symptoms may represent precursors to emerging suicidality. Consideration should be symptoms and effect on mainted or suicidal indiversion should be advected above the endergence of advectaments of the advection of the sol discontinuation or absection should be adpreted as proprioting the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that abuty discontinuation or absection should be adpreted above the resk of discontinuation or absection of the advection symptoms (see Warnings and Precautions (5.9) and the syst

3 consecutive on-therapy visits. In clinical studies, regarding the proportion of patients with sustained hypertension, the following rates were observed: plazebo (0.5%), Pristiq 50 mg (1.3%), Pristiq 100 mg (0.7%), Pristiq 200 mg (1.5%), and Pristiq 400 mg (2.5%), Analyses of patients in Pristic controlled studies who met criteria for sustained hypertension revealed a dose-dependent increase in the proportion of patients with developed sustained hypertension. Ahommad Bleeding-SSRs and SNRs team increase the risk of bleeding events. Concomitant use of aspirin, other drugs that affect plateiet function, norsteroidal anti-inflammatory drugs, warfain, and other anticocagulants can add to this risk. Bleeding associated with the isso of Develop, and the risk of bleeding associated with the side of Pristiq and NSAIBs, aspirin, or other drugs that affect coagulation or bleeding. Narrow-angle Glaucoma-Mydriasis has been reported in association with Pristiq, Pristiq, Aclivation of Manai/Myonamia-During all MDD and VMS (vasomaria has asis been reported in a small proportion of patients with major affective disorder who were treated with other marketed antidopressants. As with all antidopressants, Pristiq and USAIB, aspective or clinical studies. Serum Cholesson (e.1), Increases in blood pressure and heart rate were observed in clinical studies. Serum Cholesson (e.1), Increases in blood pressure and heart rate were observed in clinical studies. Serum Cholesson (e.1), Increases in blood pressure and the risk of bleeding association with the set diagnoses, except for cerebrovascular Disease-Caution (is advised) in affording, unstable heart (e.1), Security and on properticely evaluated in a disease, prevention (e.1), Discontinuation or dose drugs were observed in clinical studies. Neary reversity in popramia. Cardiovascular/Cerebrovascular Disease-Caution (is advised) in a stocial provide (is (is advise), propram Interstitial lung disease and eosinophilic pneumonia associated with veniataxine (the parent drug of Pristio) therapy have been rarely reported. The possibility of these adverse events should be considered in patients is should be in the solut and the solutation of Pristig should be considered. **ADVERSE REACTIONS: Clinical Studies Experience:** The most commonly observed adverse reactions in Pristig-treated MDD patients in short-term fixed-dose studies (incidence 25% and at least twice the rate of placebo in the 50- or 100-mg dose groups) were nausea, diziness, insomia, hyperhidrosis, constipation, somona dverse adverse in the solution disorders. **Adverse reactions** reported as reasons for discontinuation of treatment—The most common adverse reactions the adverse reactions the adverse reactions the adverse reactions the adverse (adversid), to public the solution of the solution of the adverse reactions that counted in 2% of Pristig-treated MDD patients at any dose in the 8-week, placebo-controlled, fixed-dose, premarketing clinical studies. In general, the adverse reactions were most througen the solution adverse reactions that adverse reactions the adverse reactions and adverse reactions that adverse reactions that context and adverse treactions that context and adverse reactions that context d with Pristiq who present with progressive dyspnea, cough, or chest discomfort. Such patients d undergo a prompt medical evaluation, and discontinuation of Pristiq should be considered.

controlled clinical studies with doses of 50-400 mg, systolic orthostatic hypotension (decrease ≥30 mm Hg from supine to standing position) occurred more frequently in patients ≥65 years of age receiving Pristiq (6.9%, 7/87) versus placedo (2.5%, 1/40), compared to patients ≥65 years of age roceiving Pristiq (6.9%, 7/87) versus placedo in has been identified during post-approval use of Pristit (2.5%, 1/40), compared to patients <65 years of age roceiving Pristiq (0.5%, 1/47), 278). Adverse Reactions identified During Post-Approval Use-The following adverse reaction has been identified during post-approval use of Pristit, Decause post-approval reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure: *Skin* and *subcutaneous tissue disorders* – Angioedema. DRUG INTERACTIONS: Central Nervous System (CNS)-Active Agents The risk of using Pristit in combination with other CNS-active drugs [see Warnings and Precautions (5.17), Monoamine Oxidase Inhibitors (MAOI)) and started on antidepressants with pharmacological properties similar to Pristig (SNHs or SSNt), or who have recently had SNRi or SSNt therapy discontinued prior to Initiation of an MAOI) see Controllergic neuroitaminite raystems (see Warnings and Precautions (5.27), Drugs that Interfere with Hemostasis (E.g. NSAUS, Asprin, and Wararin). Servition release by platelets plays an important role in hemostasis. Epidemiological studies of case-cortol and chord design have demonstrated an association between use of psychotropic drugs that interfere with servitina (5.27). Drugs that Interfere with Hemostasis (E.g. NSAUS, Asprin, and Wararin). Servition in reuptake and the occurrence of upper gastrointestinal bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SSNs and SNRis are coadministered with avarian. Patients receiving warain interapy should be carefully monitored when Pristig is initi

Projucipulation insporter in the pharmacokinetics of Pristig are unlikely to be affected by drugs that inhibit the plycoprotein transporter, and desvenlafaxine is not avoid the planmackinetics of drugs that are substrates of the P-glycoprotein transporter. Electroconvulsive therapy - There are no clinical data establishing the risks and/or benefits of electroconvulsive therapy combined with Pristig treatment. USE **IN SPECIFIC POPULATIONS: Prepnacy-** Patients should be advised to notify their physica in they become pregnant or intend to become pregnant during therapy. <u>Teratogenic effects – Pregnancy Category C</u>. There are no adequate and well-controlled studies of Pristig in pregnant women. Therefore, Pristig should be used during pregnancy only if the potential benefit justify the potential risks. Mon-teratogenic effects – Neonates exposed to SNRs (Serotonin and Norepinephrine Reuptake Inhibitors), or SSRs (Selective Serotonin Reuptake Inhibitors), late in the third timester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Such complications can arise immediately upon elivery. Reported clinical indings have included respiratory distress, cyanosis, apnea, selzures, tremori, literiness, irritability, and constant crying. These features are consistent with either a direct toxic effect of SSRs and SNRs or possibly, a drug discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome [see Warnings and Precautions (5.21)]. When reating a pregnant woman with Pristig during the third timester, the physician should carefully consider the potential risks and benefits to treatment [see Dosage and Administration (2.2)]. Labor and Delivery. The effect of Pristig on labor and delivery in humans is unknown. Pristig should be used during labor and delivery only if the potential benefits justify the potential risks. **Nursing Mothers** Desvenlataxine (0-desmethytvenlataxine) is excreted in hum

The part initial mean field of a final of a model at and server repaintent, respectively. The recommended lose in patients with hepatic impairment is 50 mg/day, Dose escalation above 100 mg/day is not recommended [see Clinical Pharmacology (12.6)]. **OVERDOSAGE: Human Experience with Overdosage**. There is limited clinical experience with desventilative succinate overdosage in humans. In premarketing clinical studies, no cases of fatal acute overdose of desventilative succinate overdosage in humans. In premarketing clinical studies, no cases of fatal acute overdose of desventilative succinate overdosage in humans. In premarketing clinical studies, no cases of fatal acute overdose of desventilative metabolity related to Pristiq included headche, vomiting, aqitation, dizrinesa, nausea, constipation, diarrhea, dry mouth, paresthesia, and tachycardia. Desventilative (the parent drug of Pristiq) is presented below, the identical information can be found in the *Overdosage* section of the ventilaxime package insert. In postmarketing experience, overdose with ventilative for success age include tachycardia, hanges in level of consciousness (ranging from somolence to coma), mydriasis, seizures, and vomiting. Electrocardiogram changes (eg, prolongation of Q1 interval, bundie branch block, QRS prolongation), sinus and ventricular tachycardia, bradycardia, hypotension, rhabdomyolysis, vertigo, liver nearosis, serotonin syndrome, and death have been reported. Published retrospective studies report that ventalaxine in overdosage, as opposed to some characteristic(s) of ventalaxine is a base as higher pre-existing burden of suicide risk factors than SSRI -trated patients. The extent to which the finding of an increased risk of fatal outcomes compared to that observed with SSRI antidepressant; polytema of verdosage, as opposed to some characteristic(s) of ventalaxine in overdosage, as opposed to some characteristic(s) of ventalaxine in verdosage, as opposed to some characteristic(s) of ventalaxine in setting the solution of t

261837-01 © 2009 Pfizer Inc. All rights reserved. December 2009

#### Continued from previous page

"The patients tell us they do not feel well placed, sitting next to heroin users. In fact, that's how impressionable young people learn how to use other drugs.'

## **CBT** as the Foundation

Dr. Wittchen and his colleagues designed a treatment program (10 individual sessions of 90 minutes each) specifically related to CUD. Based on evidence that types of cognitive-behavioral therapy (CBT) can be effective (via motivational enhancement, cognitive restructuring, psychosocial problem solving), they used CBT as a foundation. Modular components include CBT, motivational enhancement, and psychosocial problem solving. Patients develop an individual change concept and set goals. There is "quit day" preparation and training in relapse prevention, cannabis refusal skills, and so forth.

A randomized, controlled trial was designed to assess the effect of the program, compared with a delayed-treatment group, which included individuals seeking help but who were asked to wait until there was availability within the program.

Two approaches were evaluated: a standardized approach and a variant tailored to the individual's specific needs that minimized components deemed unnecessary (such as less motivational work in patients who express high motivation at baseline).

Participants were aged 16-45 years with substantial current cannabis use

and meeting criteria for DSM-IV CUD. They also had significant CUD-associated psychosocial problems and could have comorbid mental disorders (though no history of psychotic disorder, suicidal



ideation, or phobias) as well as concomitant other drug use (though no oth-

"Our entry criteria [were] meant to correspond to the most frequent and typical characteristics of this population," he said. "And our general campaign message was for 'everyone who wants to stop, reduce, or think about his or her cannabis use.

The typical patient was a male who used cannabis more than 20 times per week. Seventy percent met criteria for cannabis dependence, 78% reported lifetime use of other illicit drugs, and 38% had signs of dependency for those. Anxiety disorders were diagnosed in 40% and mood disorders in 38%. "We concluded that a severe chronic CUD sample of patients was included in the study," he said.

There were 51 subjects in the standardized treatment group, 39 in the targeted standardized treatment group and 32 in the delayed-treatment group, which served as controls. Assessments were made after 3 and 6 months to test the stability of the effects. The primary outcome measure was abstinence as measured by self-report and negative urine screen, cannabis use, addiction severity total score and domains, and severity of psychopathological symptoms.

The tailored treatment was found not to be superior to the standardized treatment; therefore, these two groups were combined for the analysis.

### **Trial Showed Robust Effect**

At the end of treatment, approximately 50% of participants reported complete abstinence for at least 7 days and this remained stable at 3 months, dropping to approximately 40% at 6 months.

At all time points, urine screens were negative for approximately 40% of participants. In contrast, abstinence was reported by approximately 10% of the control group at the end of treatment.

Similarly, mean number of cannabisuse episodes per week was substantially decreased, according to the last-observation-carried-forward analysis. Mean use (past 7 days) at baseline was 27 for the active-treatment group and 21 for the delayed-treatment group.

After the intervention, this dropped to 7.4 per week with treatment but rose to 25 per week for the control group. At 6 months' follow-up, mean weekly use was 12 in the treatment group and 20 in the control group.

Scores on the Addiction Severity Index

were significantly improved in all domains except for "satisfaction," which Dr. Wittchen attributed to the requirement that participants alter their social network, which in turn affected their quality of life.

Psychopathological symptoms also were significantly improved, but a reduction in alcohol use was not found.

All together, at 6 months, compared with baseline, stable continued abstinence was observed in 49%, and marked reduction or temporal abstinence was observed in 38%, while 11% had no change and 3% progressed to heavier use of cannabis.

More than 80% of participants reported that the therapy was "very helpful," Dr. Wittchen said. "They particularly liked the character of the program." For example, it was not a typical substanceabuse setting. Also, they appreciated the limited number of "dense" sessions and the short-term duration of treatment.

The researchers prepared a manual describing the program, which has procedural specifications of all elements, including diagnostic assessments. It is modular (to identify the core active components of the therapy) and highly structured (with scripts and verbatim descriptions of critical procedures). Specification and standardization are meant to enhance the ease of training, transfer, consistency of use, and reproducibility. The program also has just been evaluated in a 15-site translational study involving 450 persons, "with similarly impressive findings," Dr. Wittchen added.

# Weight Concerns Prevail Among White, Black Smokers

### BY SHARON WORCESTER

FROM ADDICTIVE BEHAVIORS

eneral and smoking-specific J weight concerns were more common among white women than among white men and black men and women preparing to quit smoking, but weight concerns were prevalent in all of the groups, according to a study of 301 individuals enrolled in the Chicago STOP Smoking trial.

For example, black women had the highest scores for "body dissatisfaction," and their scores in regard to smoking-specific weight concerns were statistically similar to those of white women. Men also had substantial smoking-specific weight concerns, which were defined as the belief that smoking can be used for weight control and that quitting smoking leads to weight gain, Lisa A.P. Sánchez-Johnsen, Ph.D., and her colleagues in the department of psychiatry and behavioral neuroscience at the University of Chicago reported online in Addictive Behaviors.

The findings, some of which contradict conventional wisdom about cultural differences in weight and body image be-

Major Finding: Women had significantly higher mean scores than men on the specific measure of "drive for thinness' (mean of 4.3 vs. 1.8 and 4.0 vs. 2.2 for white and black participants, respectively), and on the specific measure of "body dissatisfaction" (mean of 10.2 vs. 5.0 and 10.9 vs. 5.5 for white and black participants, respectively), but the scores did not differ significantly between whites and blacks.

Data Source: An analysis of data from a clinical trial examining a combined pharmacologic and behavioral intervention for smoking cessation.

Disclosures: The main investigator reported that neither she nor her colleagues had relevant conflicts to disclose.

tween black and white adults, suggest that both groups have specific concerns about weight and body image that could be important in the development of smoking-cessation programs, the investigators said.

Participants were 73 black women, 46 black men, 90 white women, and 92 white men. Overall, general weight concerns (defined by summated scores on the drive for thinness and body dissatisfaction subscales of the Eating Disorders Inventory–2, and the restraint factor of the Three-Factor Eating Questionnaire) were more common in

white vs. black participants, and female vs. male participants, but no race by sex interactions were found, the investigators reported (Addict. Behav. 2010 Aug. 6 [doi:10.1016/j.addbeh. 2010.08.001]).

Women had significantly

higher mean scores (after controlling for age, body mass index, socioeconomic status, and cigarettes smoked per day) than did men on the specific measure of "drive for thinness" (mean, 4.3 vs. 1.8 and 4.0 vs. 2.2 on a 1-6 scale for white and black participants, respectively), and on the specific measure of "body dissatisfaction" (mean, 10.2 vs. 5.0 and 10.9 vs. 5.5 on a 0-21 scale for white and black participants, respectively), but the scores did not differ significantly between whites and blacks.

White women did, however, have significantly higher scores on the measure of "cognitive restraint," which refers to the degree to which people consciously monitor and control their food intake (9.5 vs. 5.6, 6.7, and 5.4 on a 0-21 scale for white men, black women, and black men, respectively). This measure might include a cognitive and behavioral component, unlike other dimensions of weight concerns measured in the study, the investigators reported.

Smoking-specific weight concerns also were highest in white women, but the differences were significant only between white women and white and black men (respective scores, 7.7, 6.0, and 6.3). Black women had substantial smoking-specific weight concerns (score, 6.8).

The findings could be key to the development of smokingcessation programs that address weight concerns for black and white men and women, the researchers concluded.



'everyone who wants to stop, reduce, or think about his or her cannabis use.'

**DR. WITTCHEN** 

er dependencies).