## Dementia Rates to Rise 8% Over Next 20 Years

## BY JONATHAN GARDNER London Bureau

eople older than 95 are nearly 20 times as likely to die with dementia as those who die between the ages of 65 and 69, according to a populationbased study in England and Wales.

The study demonstrates that the prevalence of dementia increases with age and that those who reach the age of 80 without mental impairment can still become demented as they continue to age, suggesting that with increasing life expectancy the number of people with dementia also will increase, the investigators reported. Based on the results of the study, the researchers estimated that the number of people who die each year with dementia is 114,000 in England and Wales and 487,000 in the United States; these numbers will increase in 20 years to 138,000 andd 528,000, respectively. The investigators analyzed patients in

the Medical Research Council Cognitive

Function and Aging Study, which enrolled 13,004 patients at centers in Liverpool, Newcastle, Nottingham, Oxford, and Cambridgeshire in England and Gwynedd in north Wales (PLoS Med 2006 Oct. 31 [Epub doi10.1371/journal.pmed.0030397]).

The study followed 2,558 patients who were classified as having severe cognitive impairment and 2,577 who were classified as having moderate/severe cognitive impairment as measured by the Geriatric Mental State interview.

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or more frequently in the placebo group, were: vomiting, nasopharyngitis, back pain, pain in extremity, dizziness, and insomnia. General Adverse Events; Relationship to Age, Gender, and Race: Among the treatment-emergent adverse events in patients treated with MIRAFEX tablets, halucination appeared to exhibit a positive relationship to age in patients with Parkinson's disease. Although no gender-related differences were observed in Parkinson's disease pathens, nause and fatigue, both generally transient, were more frequently reported by female than male RLS patients. Less than 4% of patients enrolled were non-Caucasian, therefore, an excluation of adverse events related to frace is not possible. Other Adverse Events Observed During Phase 2 and 3 Clinical Trials: MIRAFEX tablets have been administered to 1620 Parkinson's disease patients and to 889 RLS patients in Phase 2 and 3 clinical trials. During these trials, all adverse events were rocorded by the clinical investigators using terminology of their own choosing; similar types of events were grouped into a smaller number of standardized categories using MedDRA dictionary terminology. These categories are used in the listing below. Adverse events which are not listed above but occurred on at least two occasions (one occasion if the event was serious) in the 2509 individuals exposed to MIRAFEX tablets are listed below. *Blood and lymphatic system disorders*: anemia, iron deficiency anemia, leukocytosis, leukopenia, altynehita supreventicular blood and lymphatic system disorders: anemia, iron deficiency anemia, leukocytosis, leukopenia, supraventicular extrasystoles, eventicular hypertrophy. Congradia linarction, nodal arrythythmia, sinus arrythythmia, sinus arrytycordia, supraventicular extrasystoles, ventricular hypertrophy. Congradia linarction, nodal arrythythmia, sinus arrytycordia, sinus factycardia, supraventicular extrasystoles, ventricular hypertrophy. Congradia linarction, nodel arrythythythmia, sinus arrytythmia, sinus arrythythmia, s

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Pramipexole is not a controlled substance. Pramipexole has not been systematically studied in animals or humans for its potential for abuse, holerance, or physical dependence. However, in a rat model on cocaine self-administration, gramipexole had little or no effect.

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OVERDOSAGE
There is no clinical experience with massive overdosage. One patient, with a 10-year history of schizophrenia, took 11 mg/day of pramipszole for 2 days in a clinical trial to evaluate the effect of pramipszole in schizophrenic patients. No adverse events were reported related to the increased dose. Blood pressure remained stable although pulse rate increased to between 100 and 120 beat/minute. The patient withfrew from the study at the end of week 2 due to lack of efficacy. There is no known antiote for overdosage of a dopamine agonist. If signs of central nervous system stimulation are present, a phenothiazine or other butyrophenone neuroleptic agent may be indicated; the efficacy of such drugs in reversing the effects of overdosage has not been assessed. Management of overdose may require general supportive measures along with gastric lavage, intravenous fluids, and electrocardiogram monitoring.
ANIMAL TOXICOLOGY
Retinal Pathology in Albino Rats: Pathologic changes (degeneration and loss of photoreceptor cells) were observed in the retina of albino rats in the 2-year carcinogenicity study with pramipsevole. These findings were first observed furing week 76 and were dose dependent in animals receiving 2 or 8 mg/kg/day (dasma AUCS equal to 2.5 and 12.5 times the AUC in humans that received 1.5 mg TID). In a similar study of pigmented rats with 2 years' exposure to pramipsevole educed the rate of disk shedding from the photoreceptor rod cells of the retina in albino rats, which was associated with enhanced sensitivity to the damaging effects of light. In a comparative study, degeneration and loss of photoreceptor cats at 3 weeks of the atment with 25 mg/kg/day of paramipsevole fo/4 times the highest clinical dose on a mg/m basis) and constant light (100 lub but not in pigmented rats weposed to the same dose and higher li

Mirapex

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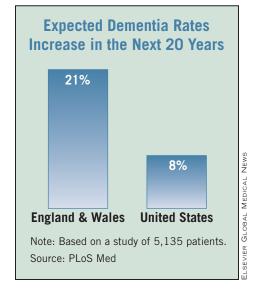
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Of the 768 people who had died within 1 year of their last interview, 30% were suffering from dementia. Of those ages 65-69 years, just 6% had dementia, but of those age 95 years and older, 58% were suffering from dementia, according to the study.

Led by Dr. Carol Brayne, professor of public health medicine at University of Cambridge, the researchers wrote that the prevalence of dementia demonstrated in their study suggests that prevention may have a negligible effect in an aging society.

"It may be that, although there will be a preventable component to dementia giving us a small and important absolute reduction in expectation of dementia at given ages, there is also a component that is not amenable to such types of prevention," the authors said. "Researchers may be doing those who are aging now and themselves a disservice in the future if they assume, and project to the public, that dementia and cognitive impairment can be prevented altogether during increasingly long lives.



## Oxcarbazepine Found to Reduce AD Hypersexuality

MADRID — Oxcarbazepine appears to significantly decrease hypersexual behavior in patients with Alzheimer's disease, Dr. Joshua Shua-Haim reported in a poster at the 10th International Conference on Alzheimer's Disease and Related Disorders.

All 11 men in the small pilot study showed improvement in the behavior by 2 weeks of treatment, said Dr. Shua-Haim of the Jersey Shore University Medical Center, Neptune, N.J.

All of the patients lived in a special care unit in an assisted living facility. Treatment began with 150 mg oxcarbazepine daily. The dose was titrated by 150 mg/day, given in two divided doses, until the behavior ceased or a maximum of 900 mg/day was reached.

Hypersexual behavior resolved in all 11 patients, at an average dose of 600-750 mg/day, given in two doses. No adverse events were reported, and there were no changes in blood chemistry.