Skin Disorders

Studies Finally Link Tanning Beds to Melanoma

BY TIMOTHY F. KIRN

Sacramento Bureau

VANCOUVER, B.C. — Two new studies presented at the Sixth World Congress on Melanoma have linked tanning bed use and melanoma.

"The year 2005 sees the first real, indisputable evidence that tanning bed use contributes to melanoma risk," said Philippe Autier, M.D., of the Jules Bordet Institute, Brussels, the chair of the session at which the studies were presented.

The larger of the two studies looked at tanning bed use by 106,000 Scandinavian women enrolled in a lifestyle study in the early 1990s, part of which involved a survey in which they were asked if they used tanning equipment, when, and for how

When the survey was repeated with a portion of the subjects 5 years after the initial one, the answers of 79% of surveys agreed completely with how the subjects had answered before, and 96% had a high, but not exact, agreement, which suggested that the reports were very accurate, said Marit Bragelien Veierød, Ph.D., of the department of biostatistics at the Univer-

With the data broken into age groups by decade, those in the 20- to 29-year age group who used tanning equipment one or more times a month had a 57% higher relative risk of melanoma, those in the 30- to 39-year age group had a 44% increased risk, and those in the 40- to 49year age group a had 69% higher risk.

By comparing all those who reported having ever used tanning equipment with those who had never used it, the study showed that there was an increased relative risk of 33% associated with tanning equipment.

In the second study, investigators compared tanning equipment use in subjects enrolled in the international Genes, Environment, and Melanoma Study who had single primary melanomas (406 cases) with those who had multiple primary melanomas (125 cases).

Overall, 29% of the subjects had used tanning equipment, and the mean age at initial diagnosis of melanoma in those who had used it was 10 years younger than it was those who had never used it, said Maria Chiu, of Cancer Care Ontario, in Toronto.

When adjusted for age and sex, the data indicated that tanning equipment use was associated with a higher risk of multiple melanomas, with an odds ratio of 1.68.

For those in the highest quartile of frequency of use, the odds ratio was 1.87. For those whose first exposure was before age 20 years, the odds ratio was 2.63, Ms. Chiu said.

The data indicate a strong dose response to tanning equipment use, Ms. Chiu added.

Previous studies in which investigators had attempted to associate tanning bed use with melanoma were generally inconclusive, probably because they tended to be too small to determine statistical power, the investigators and others

said at the meeting. **Five-Year Increase** In Relative Risk 69% 57% 44% 20-29 30-39

Note: Based on at least monthly use of tanning equipment.

Age (years)

Source: Dr. Veierød

- VERBATIM -

'Many of my insomniac patients tell me proudly that they aren't using caffeine,' when a good cup in the morning may be just what they need.

Dr. Milton Erman, p. 74

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Dopamine antagonists: Dopamine antagonists, such as the neuroleptics (phenothiazines, butyrophenones, thioxanthenes) or metoclopramide, may diminish the effectiveness of MRAPEX. Druglaboratory test interactions: No known interactions: Carchiogenesis, mudagenesis, effectifility impairment: Two-year pramipexole carcinogenicity studies were conducted in mice and rais. Prampexole was fed to Chibh NRH index at doses 0.3, 2.2, and 11 mices the highest encommended human dose [1.5 mg to [1.0] on any rin-bass and to Wister aris at doses resulting in plasma AUCs equal to 0.3, 2.5, and 12.5 times the AUCh in humans receiving 1.5 mg to Nicky in the commended human dose [1.5 mg to [1.0] on any rin-bass and of Wister aris at doses resulting in plasma AUCs equal to 0.3, 2.5, and 12.5 times the AuCh in humans receiving 1.5 mg to Nicky inflicient to research in chief securities of either species. Parampexol was not mudagenic or dastogenic in the in with Onlines assay. The original received in the production of the species of the species of the production of the species of the production of the species of the spec

Body System/ Adverse Event	MIRAPEX N=388	Placebo N=235	Body System/ Adverse Event	MIRAPEX N=388	Placebo N=235
Body as a Whole Asthenia General edema Malaise Reaction unevaluable Fever	14 5 2 2 1	12 3 1 1 0	Nervous System Dizziness Somnolence Insomnia Hallucinations Confusion	25 22 17 9 4	24 9 12 3
Digestive System Nausea Constipation Anorexia Dysphagia	28 14 4 2	18 6 2 0	Amnesia Hypesthesia Dystonia Akathisia Thinking abnormalities Decreased libido	4 3 2 2 2 1	2 1 1 0 0
Metabolic & Nutritional S Peripheral edema Decreased weight	lystem 5 2	4 0	Myoclonus Special Senses Vision abnormalities	3	0
			Urogenital System Impotence	2	1

Table 2.—Treatment-Emergent Adverse-Event* Incidence in Double-Blind, Placebo-Controlled Trials in Advanced Parkinson's Disease (Events 21% of Patients Treated With MIRAPEX and Numerically More Frequent Than in the Placebo Group)

Body System/ I Adverse Event	MIRAPEX ¹ N=260	Placebo ¹ N=264	Body System/ Adverse Event	MIRAPEX ¹ N=260	Placebo ¹ N=264
Body as a Whole Accidental Injury Asthenia General edema Chest pain Malaise	17 10 4 3	15 8 3 2 2	Nervous System (cont) Somnolence Dystonia Gait abnormalities Hypertonia Arnnesia Akathisia Thinking abnormalities Paranoid reaction Delusions Sleep disorders	9 8 7 7 6	6 7 5 6 4
Cardiovascular System Postural hypotension	53	49		3	2 2 0
Digestive System Constipation Dry mouth	10 7	9		2 1 1	0 0 0
Metabolic & Nutritional Sys Peripheral edema Increased creatine PK	tem 2 1	1 0	Respiratory System Dyspnea Rhinitis Pneumonia	4 3 2	3 1 0
Musculoskeletal System Arthritis Twitching	3 2 2	1 0	Skin & Appendages Skin disorders	2	1
Bursitis Myasthenia	2 1	0	Special Senses Accommodation		
Nervous System Dyskinesia	47	31	abnormalities Vision abnormalities Diplopia	4 3 1	2 1 0
Extrapyramidal syndrom Insomnia Dizziness Hallucinations Dream abnormalities Confusion	ia 27 22 ss 26 25 nations 17 4 abnormalities 11 10	25 4 10	Urogenital System Urinary frequency Urinary tract infection Urinary incontinence	6 4 2	3 3 1

its may have reported multiple adverse experiences during the study or at discontinuation; thus tis may be included in more than one category.

DRUG ABUSE AND DEPENDENCE

has not been studied in patients with very severe impairment.

It discontinuation: Discontinue MIRAPEX over a period of 1 week; in some studies, however, continuation was uneventful.

conquisionimization was uneventful.

Store at 25°C (7°F); excussions permitted to 15°C to 30°C (59°F to 86°F) (see USP Controlled Room lempstarte, Protect from light.

Store in a safe place out of the reach of children.

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