M=% (N=1218) F=% (N=336)

Palpitations 1.4 3.3 0.9 0.9

Somnolence 1.3 1.6 0.8 0.3

The following events occurred in ≤1% but >0.1% of patients treated with amlodipine in controlled clinical trials or under conditions of open trials or marketing experience where a causal relationship is uncertain; they are listed to alert the physician to a possible relationship: Cardiovascular: arrhythmia (including ventricular tachycardia and atrial fibrillation), bradycardia, chest pain, hypotension, peripheral ischemia, syncope, tachycardia, postural dizziness, postural hypotension, vasculitis. Central and Peripheral Nervous System: hypoesthesia, neuropathy peripheral, paresthesia, tremor, vertigo. Gastrointestinal: anorexia, constipation, dyspepsia, "bysphagia, diarrhea, flatulence, pancreatitis, vomiting, gingival hyperplasia. General: allergic reaction, asthenia," back pain, hot flushes, malaise, pain, rigors, weight gain, weight decrease. Musculoskeletal System: arthralgia, arthrosis, muscle cramps, "* myalgia. Psychiatric: sexual dysfunction (male * and female), insomnia, nervousness, depression, abnormal dreams, anxiety, depersonalization. Psychiatric: sexual dysfunction (male * and female), insomnia, nervousness, depression, abnormal dreams, anxiety, depersonalization. Respiratory System: dysponea, ** epistaxis. Skin and Appendages: angioedema, erythema multiforme, pruritius, ** rash, ** rash erythematous, rash maculopapular. Special Senses: abnormal vision, conjunctivitis, diplopia, eye pain, tinnitus. Urinary System: micturition frequency, micturition disorder, nocturia. Autonomic Nervous System: dry mouth, sweating increased. Metabolic and Nutritional: hyperplycemia, thirst. Hemopoletic: leukopenia, purpura, thrombocytopenia. The following events occurred in so.1.9% of patients treated with amlodipine in controlled clinical trials or under conditions of open trials or marketing experience: cardiac failure, pulse irregularity, extrasystoles, skin discoloration, uriticaria, skin dryness, alopecia, dematitis, muscle weakness, twitching, ataxi

Table 3. Adverse Events in Placebo-Controlled Studies (% of Patients)

		atorvastatin			
Body System/ Adverse Event	Placebo N=270	10 mg N=863	20 mg N=36	40 mg N=79	80 mg N=94
BODY AS A WHOLE					
Infection	10.0	10.3	2.8	10.1	7.4
Headache	7.0	5.4	16.7	2.5	6.4
Accidental Injury	3.7	4.2	0.0	1.3	3.2
Flu Syndromé	1.9	2.2	0.0	2.5	3.2
Abdominal Pain	0.7	2.8	0.0	3.8	2.1
Back Pain	3.0	2.8	0.0	3.8	1.1
Allergic Reaction	2.6	0.9	2.8	1.3	0.0
Asthenia	1.9	2.2	0.0	3.8	0.0
DIGESTIVE SYSTEM					
Constipation	1.8	2.1	0.0	2.5	1.1
Diarrhea	1.5	2.7	0.0	3.8	5.3
Dyspepsia	4.1	2.3	2.8	1.3	2.1
Flatulence	3.3	2.1	2.8	1.3	1.1
RESPIRATORY SYSTEM					
Sinusitis	2.6	2.8	0.0	2.5	6.4
Pharyngitis	1.5	2.5	0.0	1.3	2.1
SKIN AND APPENDAGES					
Rash	0.7	3.9	2.8	3.8	1.1
MUSCULOSKELETAL SYSTEM					
Arthralgia	1.5	2.0	0.0	5.1	0.0
Myalgiă	1.1	3.2	5.6	1.3	0.0
Anala Coandinavian Cardina O	utoomoo Triol (AC	COTIL In ACCOT involve	ring 10 20E participan	to trooted with story	otatin 10 ma da

Arthralgia
1.5
2.0
3.2
5.6
1.3
0.0
Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT): In ASCOT involving 10,305 participants treated with atorvastatin 10 mg daily (n=5,168) or placebo (n=5,137), the safety and tolerability profile of the group treated with atorvastatin was comparable to that of the group treated with patched with atorvastatin was comparable to that of the group treated with patched with atorvastatin in clinical trials. The events in italics occurred in ≥2% of patients and the events in plain type occurred in >2% of patients. Body as a Whole: Chest pain, face edema, fever, neck rigidity, malaise, photosensitivity reaction, generalized edema. Digestive System: Nausea, gastroenteritis, liver function tests abnormal, colitis, vomiting, gastritis, dry mouth, rectal hemorrhage, esophagitis, eructation, glossitis, mouth ulceration, anorexia, increased appetite, stomatitis, beliary pain, chelifits, cholestatic jaundice. Respiratory System: Nausea, gastroenteritis, inver function tests abnormal, colitis, vomiting, gastritis, dry mouth, rectal hemorrhage, esophagitis, eructation, glossitis, mouth ulceration, anorexia, increased appetite, stomatitis, beliary pain, chelifits, cholestatic jaundice. Respiratory System: Bronchitis, rhinitis, pneumonia, dyspnea, asthma, epistaxis. Nervous System: Insomnia, dizziness, paresthesia, somnolence, amnesia, abnormal dreams, libido decreased, emotional lability, incoordination, peripheral neuropathy, torticollis, facial paralysis, hyperkinesia, depression, hypesthesia, hypertonia. Musculoskeletal System: Arthritis, leg cramps, bursitis, tenosynovitis, myasthenia, tendinous contracture, myositis. Skin and Appendages: Pruritus, contact dermatitis, alopecia, dry skin, sweating, acne, uriticaria, ezcema, seborrhea, skin ulcer. Urogenital Syst

rhàdomyolysis. *Pediatric Patients* (ages 10-17 years): In a 26-week controlled study in Doys and pushimandary gins the Tray, making a feet and tolerability profile of atorvastatin 10 to 20 mg daily was generally similar to that of placebo (see PRECAUTIONS, Pediatric Use).

OVERDOSAGE: There is no information on overdosage with CADUET in humans. Information on Amlodipine: Single oral doses of amlodipine maleate equivalent to 40 mg amlodipine/kg and 100 mg amlodipine/kg in mice and rats, respectively, caused deaths. Single oral amlodipine maleate doses equivalent to 4 or more mg amlodipine/kg in dogs (11 or more times the maximum recommended clinical dose on a mg/m² basis) caused a marked peripheral vasodilation and hypotension. Overdosage might be expected to cause excessive peripheral vasodilation with marked hypotension and possibly a reflex tachycardia. In humans, experience with intentional overdosage of amlodipine is limited. Reports of intentional overdosage include a patient who ingested 250 mg and was asymptomatic and was not hospitalized; another (120 mg) was hospitalized, underwert gastric lavage and remained normotensive; the third (105 mg) was hospitalized and had hypotension (90/50 mmHg) which normalized following plasma expansion. A patient who took 70 mg amlodipine and an unknown quantity of benzodiazepine in a suicide attempt developed shock which was refractory to treatment and died the following day with abnormally high benzodiazepine plasma concentration. A case of accidental drug overdose has been documented in a 19-month-old male who ingested 30 mg amlodipine (about 2 mg/kg). During the emergency room presentation, vital signs were stable with no evidence of hypotension, but a heart rate of 180 bpm. Ipecaed 3.5 hours after ingestion and on subsequent observation (overnight) no sequelae were noted. If massive overdose should occur, active cardiac and respiratory monitoring should be instituted. Frequent blood pressure measurements are essential. Should hypotension occur, cardiovascular suppo

Hased on patient weight of 50 kg.
*These events occurred in less than 1% in placebo-controlled trials, but the incidence of these side effects was between 1% and 2% in all multiple dose studies.

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Ductoscope Lights Up Breast Cancer Diagnosis

BY MICHELE G. SULLIVAN

Mid-Atlantic Bureau

ORLANDO — Light may soon take a place in the diagnostic and surgical armamentarium for breast cancer.

Researchers at the Technical University of Munich have developed and are currently evaluating the world's first autofluorescence ductoscope, which has the potential to diagnose the earliest forms of intraductal breast cancer and guide surgi-

The instrument combines an autofluorescence light source and camera already approved in Europe for diagnostic bronchoscopy with a 1.3-mm diameter ductoscope. Like autofluorescence bronchoscopy, it operates on the principle that

healthy and dysplastic tissues reflect different percentages of light, Dr. Volker R. Jacobs said at a meeting on laparoscopy and minimally invasive surgery.

Light-induced fluorescence bronchoscopy has been used for several years to identify early lung lesions: A helium cadmium blue laser stimulates the lining of the bronchi to autofluoresce in a range of colors. Normal, healthy tissue is shown as being bright green, and suspicious tissue looks reddish-brown. A summary of studies with this technique concluded that it can increase

the detection rate of premalignant lesions by up to six times, compared with conventional, white-light bronchoscopy (Lung Cancer 2004;45[suppl. 2]:S29-37).

In 2003, Dr. Jacobs, a research and clinical consultant in obstetrics and gynecology at the university, and Dr. Stefan Paepke began investigating the scientific and clinical potential of autofluorescence ductoscopy for use in small-lumen endoscopy.

The prototype chosen for study uses a 300-W xenon lamp that emits white light; a foot switch adds a blue filter to change it to a fluorescent excitation light. Under this spectrum, healthy tissue shines brightly, reflecting 100% of the light, while dysplastic tissue reflects a reduced amount, or even none, and fades into blackness. However, this picture isn't optimal for diagnostic evaluation, Dr. Jacobs said in an interview. So the investigators inverted the picture so that healthy areas diminish and suspicious areas are highlighted, then overlaid it with an image from the red-violet spectrum to improve detection of potential lesions. In this final image, suspicious areas and potential intraductal lesions appear blue-violet.

The journal Clinical Breast Cancer has accepted Dr. Jacobs' technical feasibility study for publication. In the paper, he describes five patients who were examined intraoperatively with this technique. All had either histologically confirmed ductal carcinoma in situ or papilloma that had been discovered with other imaging methods or fine-needle biopsies.

Diagnostic and autofluorescence ductoscopies were performed before segment or duct excision or lumpectomy. The additional time required for the ductoscopy was minimal, ranging from 5 to 15 minutes, and there were no associated complications. There was no need for intravenous administration of any contrast agent because the procedure uses only light.

The paper notes that areas of suspicion reflected light values distinctly different from those of normal tissue. "The degree of blue-violet color appears to be proportional to the degree of alteration in this tissue, just as it is in bronchoscopy," Dr. Jacobs said at the meeting sponsored by the Society of Laparoendoscopic Surgeons. "The more light we see, the more dysplastic the tissue should be.'



Dr. Volker R. Jacobs is shown with a display of images obtained on his prototype autofluorescent ductoscopy.

This observation, if confirmed in prospective trials, could "lead us to be able to intraoperatively differentiate between benign and nonbenign lesions, and maybe even to have semiquantitative visual differentiation that would allow us to make some instant conclusions about the lesion. This could really improve the diagnostic value of the procedure and might even allow earlier therapeutic intervention," said Dr. Jacobs. "We might also be able to develop this into an early screening procedure for [high-risk] patients."

Dr. Jacobs hopes to publish a larger case series that will include more data on color gradations, and compare the autofluorescent imaging to standard imaging tech-

The most immediate application of autofluorescent ductal imaging would probably be surgical, he said. "If we could take a biopsy under autofluorescent visualization, we might be able to use the color as a guide to getting clear margins. This might cut down on the number of R1 resections, and also reduce the need for consecutive operations to ensure clear tumor margins.'

In fact, Dr. Jacobs said, autofluorescent diagnostic ductoscopy would combine very well with interventional ductoscopy. The color gradations would guide the surgeon to the suspicious area, which could be treated endoscopically.

Neither investigator claims a financial interest in either the procedure or the

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