Adverse Event	am l odipine		Placebo		
	M=% (N=1218)	F=% (N=512)	M=% (N=914)	F=% (N=336)	
Edema	5.6	14.6	1.4	5.1	
Flushing	1.5	4.5	0.3	0.9	
Palpitations	1.4	3.3	0.9	0.9	
Somnolence	1.3	1.6	0.8	0.3	

Palpitations 1.4 3.3 0.9 0.9

Somnolence 1.4 3.3 0.9 0.9

Somnolence 1.4 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, ** dysphagia, diarrhea, flatulence, pancreatitis, vomiting, gingival hyperplasia. General: allergic reaction, asthenia,** back pain, htushes, 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. Psychiatric: sexual dysfunction (male** and female), insomnia, nervousness, depression, abnormal dreams, anxiety, depersonalization. Mutritional: hyperglycemia, dyspnea,** 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 fisorder, nocturia. Autonomic Nervous System: dry mouth, sweating increased. Metabolic and Nutritional: hyperglycemia, thirst. Hemopoletic: leukopenia, purpura, thrombocytopenia. The following events occurred in \$<0.1% of patients treated with amlodipine in controlled clinical trials or under conditions of open trials or marketing experience: cardiac failure, pulse in the patients of the patients of the

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

			atorva	statin	
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 Syndrome	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
Myalgia	1.1	3.2	5.6	1.3	0.0

Arthralgia

1.5

2.0

3.2

5.6

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 placebo during a median of 3.3 years of follow-up. The following adverse events were reported, regardless of causality assessment, in patients treated 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, biliary pain, chelilitis, cholestatic jaundice. Respiratory System: Bronchitis, rhinitis, pneumonia, dyspnea, asthma, epistaxis. Nervous System: Insomnia, dizziness, paresthesia, somnohence, ammesia, abnormal dreams, libido decreased, emotional lability, incoordination, peripheral neuropathy, torticollis, facial paralysis, hyperkinesia, depression, hypesthesia, hypertonia. Musculoskeletal System: Arhinitis, elopecia, dry skin, sweating, acne, uriclacia, ezcema, seborrhea, skin ulcer. Urogenital System: Urinary tract infection, urinary frequency, cystitis, hematuria, impotence, dysuria, kidney calculus, nocturia, epididymitis, fibrocystic breast, vaginal hemorrhage, albuminuria, breast enlargement, metrorrhagia, nephritis, urinary incontinence, urinary retention, urinary urgency, abnormal ejaculation, uterina hemorrhage, Special Senses: Amblyopia, tinnitus, dry eyes, refraction disorder, eye hemorrhage, deafnes, glaucoma, parsonia, taste loss, taste perversion, Cardiovascular System: Palpitation, vasodilatation, syncope, migraine, postural hypotension, phlebitis, arrhy

Prediatric 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, underwent 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. Ipecac was administered 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 support including elevation of the extremities and the judicious administration of vasopressors (such as phenylephrine) should be considered with attention to circulating volume and urine output. Intravenous calcium gluconate may help to reverse

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Learning Curve Evident in **Carotid Stent Complications**

BY MITCHEL L. ZOLER Philadelphia Bureau

PHILADELPHIA — Minimizing the complications from carotid artery stenting may require accumulating experience with up to 200 patients, according to the records at a single medical center in Italy.

An analysis of the correlates of death or major stroke in a series of more than 600 patients treated with carotid artery stenting at the University of Perugia during 2001-2006 showed that the only strongly significant link was with the time when the stenting was done, Dr. Piergiorgio Cao said at the Vascular Annual Meeting.

Patients who were among the first 195 treated with carotid stenting in Perugia, during 2001-2003, had an average incidence of perioperative death or major stroke of about 3%, compared with a 1% rate among the next 432 patients who were treated in 2004-2006, a statistically significant difference, said Dr. Cao, a vascular surgeon at the University of Perugia.

In some major trials of carotid artery stenting, operators are required to have performed at least 30 stenting procedures as a criterion for participating, noted Dr. Robert Hobson, chief of vascular surgery at the University of Medicine and Dentistry of New Jersey in Newark. But Dr. Cao hesitated to recommend an alternative, minimum number based on his findings.

The prior suggested number [of 30 cases] seems too low to ensure the safety of carotid artery stenting," said Dr. Cao. But "our results do not equal guidelines." He did recommend that operators start by performing carotid stenting in "low-risk patients with easy-access vessels.

Another facet of the analysis looked at the time during carotid stenting when complications occurred. To run this analysis, the Perugia researchers divided the carotid stenting procedure into five phases: Phase 1 was initial catheterization of the carotid artery, phase 2 was crossing the stenosis, phase 3 was deployment of the protective device and the stent, phase 4 was the first 24 hours following the procedure, and phase 5 was the period beyond the first 24 hours through 30 days of follow-up.

Of the 10 patients who had major strokes in the full series, 4 had strokes during phase 1 and 6 had strokes during phase 3. But there were no strokes during phase 1 among patients treated during 2004-2006. "That can be strictly related to the learning curve effect," Dr. Cao said.

Stents Raise PSV Threshold For Detecting Carotid Stenosis

BY MITCHEL L. ZOLER Philadelphia Bureau

PHILADELPHIA — The current standards for diagnosing carotid artery stenosis by ultrasound velocity are too low once a stent is placed in the vessel, according to the results of a study of 80 patients presented at the Vascular Annual Meeting.

The standard ultrasound threshold for diagnosing carotid stenosis of 50% or more is a peak systolic velocity (PSV) of at least 125 cm/s. But after a carotid artery is stented, its biomechanical properties change and the PSV rises.

In stented patients, the flag for carotid stenosis of 50% or more should be a PSV of at least 217 cm/s, Dr. Sam A. Zakhary said at the meeting, which was sponsored by the Society for Vascular Surgery.

Another marker of stenosis is the ratio of the PSV in the internal carotid artery to that in the common carotid artery (ICA/CCA).

The standard threshold for flagging stenosis of 50% or more is a ratio of at least 2.0, but in the study, the best threshold was found to be a ratio of at least 2.98, said Dr. Zakhary, a vascular surgeon at Baylor University Medical Center in Dallas.

In the 80-patient series, carotid angiography was done within 30 days of stenting, and ultrasounds were taken within 30 days of angiography. The 28 patients with less than 50% carotid stenosis after stenting were followed for 6 years, during which 5 developed stenosis of 50% or more.

Of the 80 patients, 40 were misdiagnosed with a residual carotid stenosis of 50% or more after stenting because their PSV was at least 125 cm/s. But none had this high a level of carotid stenosis when assessed with carotid angiography.

In contrast, a PSV of at least 217 cm/s showed high sensitivity and specificity for diagnosing 50% or more stenosis in the 80 patients (see box), Dr. Zakhary said.

Suggested Ultrasound Criteria for Diagnosing ≥50% **Stenosis in Stented Carotid Arteries**

Measure	Sensitivity	Specificity
Peak systolic velocity (PSV) ≥217 cm/s	100%	95%
Internal carotid artery/common carotid artery PSV ratio ≥2.98	83%	100%

Note: Based on a study of 80 patients

Source: Dr. Zakhary

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