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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	10.0	10.0				
Infection	10.0	10.3	2.8	10.1	7.4	
Headache Accidental Injury	7.0 3.7	5.4 4.2	16.7 0.0	2.5 1.3	6.4 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 2.1	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	0.7	0.0	0.0	0.0		
Rash	0.7	3.9	2.8	3.8	1.1	
MUSCULOSKELETAL SYSTEM		0.0	0.0	<b>F</b> 4	0.0	
Arthralgia	1.5	2.0 3.2	0.0 5.6	5.1 1.3	0.0 0.0	
Mvalgia	1.1	3.2	5.6	1.3	0.0	

Arthralgia 1.5 2.0 0.0 5.1 0.0 Myagia 1.1 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 vas 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, helpatitis, pancreatitis, cholestatic jaundice. **Respiratory System**: Bronchitis, rhinitis, pneumonia, dyspnea, asthma, epistaxis. **Nervous System**: Insomnia dizziness, paresthesia, somnolence, anmesia, abnormal dreams, libido decreased, emotional lability, incoordination, peripheral neuropathy, torticollis, facial paralysis, hyperkinesia, depression, hypesthesia, hypertoina. Musculoskeletal System: Arbitis, elegande, cystitis, hematuria, impotence, dysuria, kidney calculus, nocturia, epididymitis, fibrocystic breast, vaginal hemorrhage, alabuminuria, breast enlargement, metrorrhagia, nephritis, urinary incontinence, urinary retention, urinary urgency, abnormal ejaculation, uterine ehmorrhage. **Special Benses**: Amblopia, tinnitus, dry eyes, refraction disorder, eye hemorrhage, datemes, glaucoma, parosmi, taste loss, taste perversion. **Cardiovascular System**: Palpitation, vasodilatation, syncope, migraine, postural hypotension, phelbitis, anthythmia, angina pectoris, hypertension. **Metabolic and Nutritinal Disorders**: *Peripheral edema*, hyper

Inabolity of sites, *Peuralite Falents* (ages 10-17 years), in a 26-week collidude study in logistic position and positientational glins (1=140), the safety 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 equivalent to 40 mg amlodipine/kg and 100 mg amlodipine/kg in dogs (11 or more times the maximum recommended clinical dose on a mg/m² basis) caused a marked perpheral vasodilation and hypotension. Overdosage might be expected to cause excessive perpheral 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, underwent gastric lavage and remained normotensive; the third (105 mg) was hospitalized, underwent gastric lavage and remained normotensive; the third (105 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 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 hear rate of 180 bpm. Jpecac was administered 3.5 hours after ingestion and on subsequent observation (overnight) no sequelae were noted. If massive overdose Based 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. ₿ only

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Perfusion CT Proves Useful In Carotid Artery Stenosis

## BY PATRICE WENDLING Chicago Bureau

CHICAGO — Perfusion computed tomography is a useful modality in the detection of regional brain perfusion deficits in patients with severe internal carotid artery stenosis, Dr. Agnieszka Trojanowska during a poster presentation at the annual meeting of the Radiological Society of North America.

CT perfusion imaging revealed that internal carotid artery stenosis in most cases was associated with brain perfusion deficits ipsilaterally to the stenotic site, and that hypoperfusion tended to improve considerably after stent placement, said Dr. Trojanowska, who also has a PhD.

In the study, 74 patients with symptomatic internal carotid artery stenosis of more than 70% were evaluated with CT perfusion imaging, on average, 70 hours

before carotid stent placement and then 3 days and 6 months after stent placement. The protocol included a non-contrast enhanced transaxial CT of the brain with a 5-mm slice and 5-mm slope and dynamic CT perfusion imaging during administration of 50 mL of contrast medium at 4 mL/s with a 5-second delay.

Before stent placement with embolic protection devices, 84% of patients had perfusion deficits ipsilaterally to the stenotic site. Three days after stent placement, 30% of patients had perfusion deficits, and at 6 months, the deficits had diminished to 6%, said Dr. Trojanowska of the Medical University of Lublin (Poland).

A marked elongation of the mean transit time (6.2-6.8 seconds) was noted at the stenotic site, together with decreased values of cerebral blood flow (40-46 mL/ 100 g per min) and slightly increased cerebral blood volume (3.2 mL/100 g).

## Fractional Flow Reserve Can **Inform Stenting Decisions**

SAN FRANCISCO — Looks can be deceiving when evaluating stenoses for treatment with stenting, Dr. John M. Hodgson said at a cardiovascular imaging conference sponsored by the American College of Cardiology.

Not all stenoses detected on angiography are accompanied by ischemia, said Dr. Hodgson of St. Joseph's Hospital, Phoenix. "Two-thirds of the time, when a patient comes to the cath lab we do not have any functional imaging," he said. "We do not know for sure that the patient has ischemia. And then we're left to interpret these fuzzy, two-dimensional angiograms.

But the relatively new technology of measuring fractional flow reserve (FFR) during catheterization could help physicians make better informed decisions about revascularization and stenting.

In FFR, a pressure transducer is sent into the coronary artery, past the anatomic lesion. FFR is the transstenotic pressure gradient across a stenosis, measured at peak blood flow after the administration of a vasodilator (such as adenosine) and indexed for aortic driving pressure.

The result is a direct measurement of the influence of a specific lesion on blood flow. Only when the FFR is 0.75 or less, indicating a functional blockage of at least 25%, is stenting helpful.

The value of FFR was shown in a prospective randomized trial that indicated that not only is it safe to not revascularize stable lesions that don't limit blood flow more than 25%, but also that it provides better 24-month outcomes than does angiography (Circulation 2001;103:2928-34). -Robert Finn

## N-Acetylcysteine May Curb **Contrast-Induced Renal Injury**

PHILADELPHIA — Giving N-acetylcysteine as an adjunctive agent may reduce the risk of acute renal injury following contrast imaging procedures in high-risk patients, Dr. Venkatesh Jayaraman reported at the annual meeting of the American Society of Nephrology.

Dr. Jayaraman, a nephrology fellow at Lankenau Hospital in Wynnewood, Pa., and associates reviewed the records of 380 patients who underwent coronary angiography in August 2001-January 2004, to evaluate a N-acetylcysteine protocol that was instituted in 2001.

Patients received 600 mg of oral Nacetylcysteine twice daily on the day before and the day of the procedure and were followed for 48 hours. By definition, low-risk patients had a serum creatinine level of 1.5 mg/dL or less; high-risk patients were those with more than 1.5 mg/dL.

Among the 318 low-risk patients, there were 8 cases (3%) of contrast-related acute renal failure (ARF). In the 62 high-risk patients, there were 12 cases of ARF (19%). In the low-risk group, 9% of patients received acetylcysteine, compared with 86% of those in the high-risk group.

The investigators concluded that acetylcysteine had a significant effect on the risk of ARF in high-risk, but not low-risk patients. Only about 10% of the high-risk patients who got the drug developed ARF. -Alicia Ault