Adverse Event	am lodipine		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 1.3 1.6 0.8 0.9 0.9

Somnolence 1.3 1.6 0.8 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, "* dysphagia, diarrhea, flatulence, pancreatitis, vomitting, gingival hyperplasia. General: allergic reaction, asthenia, "* back pain, holf ulsuhes, 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. Respiratory System: dyspena.** epistaxis, Skin and Appendages: angioedema, erythema multiforme, puruitus, ** 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: hyperglycemia, thirst. Hemopoietic: 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 irrequiarity, extrasystoles, skin discoloration, urticaria, skin dryness, alopecia, dematitis, muscle weakness, twitching, ataxia, hypertonia, migraine, cold and clammy skin, apathy, agitation, amnesia, gastritis, increased a

Table 2	Advenue	Franks :	- Diacaba	Cambrallad	Charles	(% of Patients

		,	atorva	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 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

Myalgia

1.1

3.2

3.6

Myalgia

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radoonyolysis, **Peniamic Patients** (**ages 10-17 years**): In a 26-week controlled study in boys and postmenarchal girls (file 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 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 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 the initiated. If hypotension remains unresponsive to these conservative measures, administration of vasopressors (such as phenylephrine) should be considered with attention

*These events occurred in less than 1% in placebo-controlled trials, but the incidence of these side effects was between 1% and 2%

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Smaller Lumens Explain Women's TPA Response

BY SHARON WORCESTER

Southeast Bureau

KISSIMMEE, FLA. — Differences in vessel size may explain why women have higher recanalization rates than men as well as better final outcomes following intravenous thrombolysis for acute ischemic stroke, Dr. David S. Liebeskind reported at the 31st International Stroke Conference.

These differences have been demonstrated in previous studies and a number of possible pathophysiologic explanations have been offered. Intravenous thrombolysis was evaluated in 100 men and 100 women based on factors such as anatomy and flow physiology to evaluate the possibility that vessel size contributes to the differences, or more specifically, that "angioarchitectural differences predispose women to recanalize more efficiently due to favorable clot geometry," said Dr. Liebeskind.

The cross-sectional lumen areas of the proximal middle cerebral, supraclinoid internal carotid, and distal basilar arteries were measured in the participants using 3-D CT angiograms. Weight and height data were used to calculate tissue plasminogen activator (TPA) dose, and patient data were used to model clot volume and ratio of exposed surface area to total clot volume.

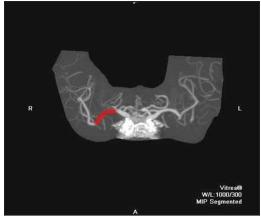
Intracranial arteries are significantly smaller in women than in men, said Dr. Liebeskind of the University of California, Los Angeles. The proximal middle cerebral artery (MCA) in women vs. men averaged 0.049 vs. 0.052 cm², distal internal carotid artery (ICA) was 0.085 vs. .099 cm2, and distal basilar was 0.059 vs. 0.073 cm². All differences were statistically significant.

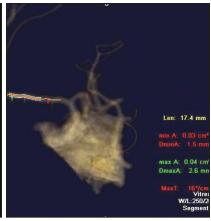
Similar statistically significant differences were noted in terms of clot volume (proximal MCA: 0.078 vs. 0.089 cm³; distal ICA: 0.079 vs. 0.109 cm³; distal basilar: 0.066 vs. 0.096 cm³), and in the ratio of exposed surface area to target clot volume, which was significantly greater in women (proximal MCA: 0.697 vs. 0.659 cm⁻¹; distal ICA: 1.156 vs. 1.023 cm⁻¹; distal basilar: 1.039 vs. 0.855 cm⁻¹), he said.

Women were more likely to have actual body weight above ideal body weight and greater differences between actual and ideal body weight, compared with men. This means an increased TPA-to-surface area ratio, creating discordance between TPA dosage (based on weight) and vessel size, resulting in relatively higher TPA dosing in women, compared with men.

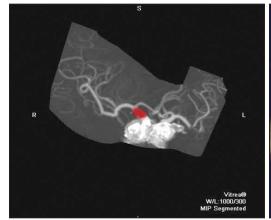
The "theoretical thrombolysis" used in this study suggests that the smaller vessel size and lesser clot volume seen in women, along with relatively higher doses of TPA, contribute to their improved responsiveness to intravenous thrombolysis, Dr. Liebeskind said at the conference. which was sponsored by the American Stroke Association. Increases in radius or length of the patent channel that may form within the clot further accentuate the differences seen in surface area-to-clot volume ratio, he added.

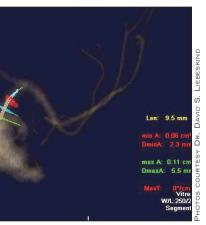
Although the study is limited by its theoretical nature and simplified anatomical characterizations without regard to potentially critical pathophysiology, the findings suggest that adjusting the dosing of intravenous TPA to body frame size could optimize recanalization in both men and women, he concluded.





At left, CT angiography shows a thrombus (red) in the middle cerebral artery. At right, volume-rendered CT angio shows areas of proximal and distal lumens and vessel length.





A thrombus (red) in the terminal ICA is shown at left. Areas of the proximal and distal lumens and vessel length in volume-rendered CT angio are shown at right.

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