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## **Complementary Foods Move Beyond Rice Cereal**

BY KERRI WACHTER

ice cereal has traditionally been the first complementary food given to American infants, but there is no good reason not to introduce meats, vegetables, and fruits as the first complementary foods.

Introducing these foods early and often promotes healthy eating habits and preferences for these naturally nutrient-rich

foods, according to Dr. Frank R. Greer, who is a professor of pediatrics at the University of Wisconsin in Madison and also a member of the American Academy of Pediatrics's Committee on Nutrition.

'Complementary foods introduced to infants should be based on their nutrient requirements and the nutrient density of foods, not on traditional practices that have no scientific basis," Dr. Greer said in an interview.

In fact, the AAP's Committee on Nutrition is working on a statement that will include these new ideas, Dr. Greer said in an interview. Currently, there are no official AAP recommendations for introduction of complementary foods, which are any nutrient-containing solid or liquid foods other than breast milk or formula given to infants, excluding vitamin and mineral supplements. By 6 months of age, human milk becomes in-

sufficient to meet the requirements of an infant for energy, protein, iron, zinc, and some fat-soluble vitamins (J. Pediatr. Gastroenterol. Nutr. 2008;46:99-110).

Rice cereal has been the first complementary food given to infants in the United States for many reasons, including cultural tradition. By the 1960s, most U.S. infants (70%-80%) were fed cereal by 1 month of age. By 1980, rice cereal predominated, as it was considered to be

## Twynsta® (telmisartan/amlodipine) Tablets

WARNING: AVOID USE IN PREGNANCY When used in pregnancy, drugs that act directly on the renin-angiotensin system can caus injury and even death to the developing fetus. When pregnancy is detected, TWYNSTA tablet should be discontinued as soon as possible. See Warnings and Precautions.

BRIEF SUMMARY OF PRESCRIBING INFORMATION

## INDICATIONS AND USAGE

Twynsta® (telmisartan/amlodipine) tablets are indicated for the treatment of hypertension, alone or with other antihypertensive agents.

TWYNSTA tablets may also be used as initial therapy in patients who are likely to need multiple drugs to achieve their blood pressure goals.

Base the choice of TWVNSTA tablets as initial therapy for hypertension on an assessment of potential benefits and risks including whether the patient is likely to tolerate the starting dose of TWVNSTA tablets.

## CONTRAINDICATIONS

## WARNINGS AND PRECAUTIONS

Fetal/Neon natal Morbidity and Mortality

Telmisartan Drugs that act directly on the renin-angiotensin system can cause fetal and neonatal morbidity and death when administered to pregnant women. Several dozen cases have been reported in the world literature in patients who were taking angiotensin converting enzyme inhibitors. When pregnancy is detected, discontinue TWYNSTA tablets as soon as possible [see Boxed Warning]. The use of drugs that act directly on the renin-angiotensin system during the second and third trimesters of pregnancy has been associated with fetal and neonatal injury, including hypotension, neonatal skull hypoplasia, anuria, reversible or irreversible renal failure, and death. Oligohydramnios has also been reported, presumably resulting from decreased fetal renal function, oligohydramnios in this setting has been associated with fetal imb contractures, craniofacial deformation, and hypoplasitic lung development. Prematurity, intrauterine growth retardation, and patent ductus rateriosus have also been reported, although it is not clear whether these occurrences were due to exposure to the drug. These adverse effects do not appear to have resulted from intrauterine drug exposure that has been

These adverse effects do not appear to have resulted from intrauterine drug exposure that has been limited to the first trimester. Inform mothers whose embryos and fetuses are exposed to an angiotensin Il receptor antagonist only during the first trimester that most reports of fetal toxicity have been associ-ated with second or third trimester exposure. Nonetheless, when patients become pregnant or are consid-ering pregnancy, physicians should have the patient discontinue the use of TWYNSTA tablets as soon as possible.

. Rarely (probably less often than once in every thousand pregnancies), no alternative to an angiotensin II receptor antagonist will be found. In these rare cases, the mothers should be apprised of the potential hazards to their fetuses, and serial ultrasound examinations should be performed to assess the intra-amniotic environment.

(BPP) may be appropriate, depending upon the week of pregnancy. Patients and physicians should be appropriate, depending upon the week of pregnancy. Patients and physicians should be aware, however, that oligohydramnios may not appear until after the fetus has sustained irreversible injury. Infants with histories of *in utero* exposure to an angiotensin II receptor antagonist should be closely observed for hypotension, oliguria, and hyperkalemia. If oliguria occurs, attention should be directed toward support of blood pressure and renal perfusion. Exchange transfusion or dialysis may be required as a means of reversing hypotension and/or substituting for disordered renal function.

### Hypotens Telmisartan

In patients with an activated renin-angiotensin system, such as volume- and/or salt-depleted patients (e.g., those being treated with high doses of diuretics), symptomatic hypotension may occur after initia-tion of therapy with TWNSTA tablets. Either correct this condition prior to administration of TWYNSTA tablets, or start treatment under close medical supervision with a reduced dose.

If hypotension does occur, the patient should be placed in the supine position and, if necessary, given an intravenous infusion of normal saline. A transient hypotensive response is not a contraindication to further treatment, which usually can be continued without difficulty once the blood pressure has stabilized. Amlodipine

Since the vasodilation induced by amlodipine is gradual in onset, acute hypotens reported after oral administration. Nonetheless, observe patients with severe aortic st administering amlodipine, as one should with any vasodilator.

#### Hyperka mia Telmisartan

Hyperkalenia may occur in patients on ARBs, particularly in patients with advanced renal impairment, heart failure, on renal replacement therapy, or on potassium supplements, potassium-sparing divretics, potassium-containing sait substitutes or other drugs that increase potassium levels. Consider periodic determinations of serum electrolytes to detect possible electrolyte imbalances, particularly in patients at

## Patients with Impaired Hepatic Function

Telmisartan

As the majority of telmisartan is eliminated by biliary excretion, patients with biliary obstructive disorders or hepatic insufficiency can be expected to have reduced clearance. Initiate telmisartan at low doses and titrate slowly in these patients.

Amologine is extensively metabolized by the liver and the plasma elimination half-life ( $t_{1/2}$ ) is 56 hours in patients with impaired hepatic function. Since patients with hepatic impairment have decreased clearance of amlodipine, start amlodipine or add amlodipine at 2.5 mg in patients with hepatic impairment. The lowest dose of TWVNSTA is 40/5 mg; therefore, initial therapy with TWYNSTA tablets is not recommended in hepatically impaired patients.

## **Renal Function Impairment**

Telmisartan As a consequence of inhibiting the renin-angiotensin-aldosterone system, anticipate changes in renal As a consequence or immoning me remin-anguierism-anocerone system, anucipate changes in renta function in susceptible individuals. In patients whose renal function may depend on the activity of the renin-angiotensin-aldosterone system (e.g., patients with severe congestive heart failure or renal dysfunction), treatment with angiotensin-converting enzyme (ACE) inhibitors and angiotensin receptor antagonists has been associated with oliguria and/or progressive azotemia and (rarely) with acute renal failure and/or death. Similar results may be anticipated in patients treated with telmisartan.

In studies of ACE inhibitors in patients with unilateral or bilateral renal artery stenosis, increases in serum creatinine or blood urea nitrogen were observed. There has been no long term use of telmisartan in patients with unilateral or bilateral renal artery stenosis, but anticipate an effect similar to that seen with ACE inhibitors.

## Dual Blockade of the Renin-Angiotensin-Aldosterone System

Telmisartan

consequence of inhibiting the renin-angiotensin-aldosterone system, changes in renal function iding acute renal failure) have been reported. Dual blockade of the renin-angiotensin-aldosterone

# system (e.g., by adding an ACE-inhibitor to an angiotensin II receptor antagonist) should include close monitoring of renal function.

The ONTARGET trial enrolled 25.620 patients ≥55 years old with atherosclerotic disease or diabetes with end-organ damage, randomized them to telmisartan only, ramipril only, or the combination, and followed them for a median of 56 months. Patients receiving the combination of telmisartan and ramipril did not obtain any additional benefit compared to monotherapy, but experienced an increased incidence of renal dysfunction (e.g., acute renal failure) compared with groups receiving telmisartan alone or ramipril alone. Concomitant use of telmisartan and ramipril is not recommended. Risk of Myocardial Infarction or Increased Angina

Uncommonly, patients, particularly those with severe obstructive coronary artery disease, have developed documented increased frequency, duration or severity of angina or acute myocardial infarction on starting calcium channel blocker therapy or at the time of dosage increase. The mechanism of this effect has not been elucidated.

Heart Failure Amlodipine

## Closely monitor patients with heart failure.

Closely monitor patients with heart failure. Amiodipine (5-10 mg per day) has been studied in a placebo-controlled trial of 1153 patients with NYHA Class III or IV heart failure on stable doese of ACE inhibitor, digoxin, and diuretics. Follow-up was at least 6 months, with a mean of about 14 months. There was no overall adverse effect on survival or cardiac morbidity (as defined by life-threatening arritythmia, acute myocardial infarction, or hospitalization for worsened heart failure). Annologine has been compared to placebo in four 8-12 week studies of patients with NYHA class II/III heart failure, involving a total of 697 patients. In these studies, there was no evidence of worsening of heart failure) based on measures of exercise tolerance, NYHA classification, symptoms, or UKE. In the PAISE-2 study, 1654 patients with NYHA class III (80%) or IV (20%), heart failure without evidence of underlying ischemic disease, on stable doese of ACE inhibitor (99%), digitalis (99%), and diuretics (99%) were randomized 1:1 to receive placebo or amiodipine and followed for a mean of 33 months. While there was no statistically significant difference between amiodipine and placebo in the primary endpoint of all cause mortality (95% confidence limits from 8% reduction to 29% increase on amiodipine), there were more reports of pulmonary edema in the patients on amiodipine.

## ADVERSE REACTIONS Clinical Trials Experience

Because clinical studies are conducted under widely varying conditions, adverse reactions rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical studies of another drug and may not reflect the rates observed in practice. TWYNSTA Tablets

The concomitant use of telmisartan and amlodipine has been evaluated for safety in more than 3700 patients with hypertension; approximately 1900 of these patients were exposed for at least 6 months and over 160 of these patients were exposed for at least one year. Adverse reactions have generally been mild and transient in nature and have only infrequently required discontinuation of therapy.

In the placebo-controlled factorial design study, the population treated with a telmisartan and amlodipine combination had a mean age of 53 years and included approximately 50% males, 79% were Caucasian, 17% Blacks, and 4% Asians. Patients received doses ranging from 20/2.5 mg to 80/10 mg orally, once

## The frequency of adverse reactions was not related to gender, age, or race

The adverse reactions that occurred in the placebo-controlled factorial design trial in  $\geq$ 2% of patients treated with TWYNSTA and at a higher incidence in TWYNSTA-treated patients (n=789) than placebo-treated patients (n=46) were peripheral edema (4.8% vs 0%), dizziness (3.0% vs 2.2%), clinically meaningful orthostatic hypotension (defined as a decrease in DBP >10 mmHg and/or decrease in SBP >20 mmHg) (6.3% vs 4.3%), and back pain (2.2% vs 0%). In addition, other adverse reactions that occurred in more than 1% of the patients treated with TWYNSTA tablets (n=789) were dizziness (2.0% vs 0%). 2.2% on placebo) and headache (1.4% vs 4.3% on placebo).

In the placebo-controlled factorial design trial, discontinuation due to adverse events occurred in 2.2% of all treatment cells of patients in the telmisartan/amlodipine-treated patients and in 4.3% in the placebo-treated group. The most common reasons for discontinuation of therapy with TWYNSTA tablets were peripheral edema, dizziness, and hypotension (each  $\leq 0.5\%$ ).

peripheral doma, durantes, and injudentsold (and 2007). Peripheral doma is a known, dose-dependent adverse reaction of amlodipine, but not of telmisartan. In the factorial design study, the incidence of peripheral edema during the 8 week, randomized, double-blind treatment period was highest with amlodipine 10 mg monotherapy. The incidence was notably lower when telmisartan was used in combination with amlodipine 10 mg.

## Table 1: Incidence of Peripheral Edema during the 8 Week Treatment Period

		Telmisartan			
		Placebo	40 mg	80 mg	
ine	Placebo	0%	0.8%	0.7%	
lodip	5 mg	0.7%	1.4%	2.1%	
Am	10 mg	17.8%	6.2%	11.3%	

Telmisartar

Telmisartan has been evaluated for safety in more than 3700 patients, including 1900 treated for over 6 months and more than 1300 for over one year. Adverse experiences have generally been mild and transient in nature and have only infrequently required discontinuation of therapy.

In placebo-controlled trials involving 1041 patients treated with various doses of telmisartan (20-160 mg) monotherapy for up to 12 weeks, an overall incidence of adverse events was similar to the patients treated with placebo.

Adverse events occurring at an incidence of ≥1% in patients treated with telmisartan and at a greater than in patients treated with placebo, irrespective of their causal association, are presented in Table 2 ater rate Table 2: Adverse Events Occurring at an Incidence of ≥1% in Patients Treated with

isart	an	and	at	а	Greater	Rate	than	Patients	Treated	with	Place	bo

	Telmisartan (n=1455) %	Placebo (n=380) %
Upper respiratory tract infection	7	6
Back pain	3	1
Sinusitis	3	2
Diarrhea	3	2
Pharyngitis	1	0

In addition to the adverse events in the table, the following events occurred at a rate of  $\geq$ 1% but were at least as frequent in the placebo group: influenza-like symptoms, dyspepsia, myalgia, urinary tract inflection, abdominal pain, headache, dizziness, pain, fatigue, coughing, hypertension, chest pain, nausea, and peripheral edema. Discontinuation of therapy due to adverse events was required in 2.8% of 1455 patients treated with telmisartan tablets and 6.1% of 380 placebo patients in placebo-controlled clinical teleform.

well tolerated and "hypoallergenic"given growing concerns about food allergies, he said.

However, newer thinking is that the emphasis for complementary foods should be on naturally nutrient-rich foods. This includes protein and fiber, along with vitamins A, C, D, and E and the B vitamins. In addition, saturated and trans fats should be limited, as should sugar, said Dr. Greer.

In light of this thinking, rice cereal is a less than perfect choice for the first complementary food given to infants. Rice cereal is low in protein and high in carbohydrates. It is often mixed with varying amounts of breast milk or formula. Although most brands of formula now have added iron, zinc, and vitamins, iron is poorly absorbed-only about 7.8% of intake is incorporated into red blood cells.

In contrast, meat is a rich source of iron, zinc, and arachidonic acid. Consumption of meat, fish, or poultry provides iron in the form of heme and promotes absorption of nonheme iron, noted Dr. Greer. Red meat and dark poultry meat have the greatest concentration of heme iron. Heme iron is ab-

sorbed intact into intestinal mucosal cells and is not affected by inhibitors of nonheme iron from the intestinal tract. Iron salts present in infant cereal are generally insoluble and poorly absorbed (with the exception of iron fumarate).

By 6 months, roughly a third of U.S. infants have been introduced to fruit (71%) and vegetables (73%), but only 21% have been introduced to meat. In a 2008 study in Pediatrics, researchers reported that 15% of infants have less than one serving of fruit or vegetable per day by 8 months of age (Pediatrics 2008;122[suppl. 2]:S91-7).

The incidence of adverse events was not dose-related and did not correlate with gender, age, or race of

The incidence of cough occurring with telmisartan in 6 placebo-controlled trials was identical to that note of placebo-treated patients (1.6%). In addition to those listed above, adverse events that occurred in >0.3% of 3500 patients treated with telmisartan monotherapy in controlled or open trials are listed below. It cannot be determined whether these events were causally related to telmisartan tablets: *Autonomic Nervous System*: impotence, increased sweating, flushing: *Body as a Whole*: allergy, fever, leg pain, malaise; *Cardiovascular*: palpitation, dependent edema, angina pectoris, tachycardia, leg edema, abnormal ECG; *CMS*: insomnia, somnolence, migraine, vertigo, paresthesia, involuntary muscle contractions, hypoesthesia; *Gastrointestinal*: flatulence, constipation, gastritis, vomiting, dry mouth, hemorrhoids, gastroenteritis, entertis, gastroesophageal reflux, toothache, non-specific gastrointestinal disorders; *Metabolic*: gout, hypercholesterolemia, diabetes melitius, *Husculoskeletal*: arthritis, sthralgia, leg cramps; *Psychiatric*: anxiety, depression, nervousness; *Resistance Mechanism*: infection, fungal infection, absociated Senses; abnormal vision, conjunctivitis, tinnitis, dysponea, epistaxis; *Skin*: dermatitis, rash, eczema, pruritus; *Urinary*: micturition frequency, cystitis; *Vascular*: cerebrovascular disorder; and *Special Senses*: abnormal vision, conjunctivitis, tinnitus, earache.

During initial clinical studies, a single case of angioedema was reported (among a total of 3781 patients treated).

<u>Clinical Laboratory Findings</u> In placebo-controlled clinical trials, clinically relevant changes in standard laboratory test parameters were rarely associated with administration of telmisartan tablets.

Hemoglobin: A greater than 2 g/dL decrease in hemoglobin was observed in 0.8% telmisartan patients compared with 0.3% placebo patients. No patients discontinued therapy due to anemia. Creatinine: A 0.5 mg/dL rise or greater in creatinine was observed in 0.4% telmisartan patients com with 0.3% placebo patients. One telmisartan-treated patient discontinued therapy due to increas

creatinine and blood urea nitrogen.

Liver Enzymes: Occasional elevations of liver chemistries occurred in patients treated with telmisartan; all marked elevations occurred at a higher frequency with placebo. No telmisartan-treated patients discontinued therapy due to abnormal hepatic function. Cardiovascular Risk Reduction Trials

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### Amlodipine

Amlodipine Amlodipine has been evaluated for safety in more than 11,000 patients in U.S. and foreign clinical trials. Most adverse reactions reported during therapy with amlodipine were of mild or moderate severity. In controlled clinical trials directly comparing amlodipine (n=1730) in doses up to 10 mg to placebo (n=1250), discontinuation of amlodipine due to adverse reactions was required in only about 1.5% of amlodipine-treated patients and was not significantly different from that seen in placebo-treated patients (about 1%). The most common side effects were headache and edema. The incidence (%) of side effects which occurred in a dose-related manner are presented in Table 3.

Table 3: Incidence (%) of Side Effects with Amlodipine at Doses of 2.5 mg, 5.0 mg, and 10.0 mg or Placebo

Adverse Event	Amlodipine 2.5 mg n=275	Amlodipine 5.0 mg n=296	Amlodipine 10.0 mg n=268	Placebo n=520
Edema	1.8	3.0	10.8	0.6
Dizziness	1.1	3.4	3.4	1.5
Flushing	0.7	1.4	2.6	0.0
Palpitations	0.7	1.4	4.5	0.6

Other adverse experiences which were not clearly dose related but which were reported with an incidence greater than 1% in placebo-controlled clinical trials are presented in Table 4. Table 4: Incidence (%) of Adverse Experiences Not Clearly Dose Related but Reported at an Incidence of >1% in Placebo-controlled Clinical Trials

Adverse Event	Amlodipine (n=1730)	Placebo (n=1250)
Headache	7.3	07.8
Fatigue	4.5	2.8
Nausea	2.9	1.9
Abdominal pain	1.6	0.3
Somnolence	14	0.6

The following events occurred in <1% but >0.1% of patients 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:

to alert the physician to a possible relationship: Cardiovascular: arrhythmia (including ventricular tachycardia, postural dizziness, postural hypotension, vasculitis; Central and 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, hot flushes, malaise, pain, rigors, weight gain, weight decrease; Musculoskeletal System: arthratiga, arthrosis, muscle cramps,\*\* myalgia: Psychiatric: sexual dysfunction (male\*\* and female), insomnia, nervousness, depression, abnormal dreams, anxiety, depersonalization; Respiratory System: dyspnea,\*\* epistaxis; Skin and Appendages: angloedema, erythema multiforme, pruntus,\*\* rash,\*\* 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. thrombocytopenia

These events occurred in less than 1% in placebo-controlled trials, but the incidence of these side fects was between 1% and 2% in all multiple dose studies.

The following events occurred in <0.1% of patients: cardiac failure, pulse irregularity, extrasystoles, skin discoloration, urticaria, skin dryness, alopecia, dermatitis, muscle weakness, twitching, ataxia, hyperto-nia, migraine, cold and clammy skin, apathy, agitation, amnesia, gastritis, increased appetite, loose stools, coughing, rhinitis, dysuria, polyuria, parosmia, taste perversion, abnormal visual accommodation, and xeronothalmia.

Other reactions occurred sporadically and cannot be distinguished from medications or concurrent disease states such as myocardial infarction and angina.

Amlodipine has not been associated with clinically significant changes in routine laboratory tests. No clinically relevant changes were noted in serum potassium, serum glucose, total triglycerides, total cholesterol, HDL cholesterol, uric acid, blood urea nitrogen, or creatinine.

Amlodipine has been used safely in patients with chronic obstructive pulmonary disease, well-compen-sated congestive heart failure, coronary artery disease, peripheral vascular disease, diabetes mellitus, and abnormal lipid profiles.

Adverse reactions reported for amlodipine for indications other than hypertension may be found in the prescribing information for Norvasc<sup>®</sup>. Postmarketing Experience

Postmarketing experience The following adverse reactions have been identified during post-approval use of telmisartan or amlodio-ine. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to estimate reliably their frequency or establish a causal relationship to drug exposure. Decisions to include these reactions in labeling are typically based on one or more of the following factors: (1) seriousness of the reaction, (2) frequency of reporting, or (3) strength of causal connection to telmisartan or amlodipine

Telmisartan

quently spontaneously reported events include: headache, dizziness The most requerity spontaneously reported events include: neadache, dizziness, astienina, cougning, nausea, fatigue, weakness, edema, face edema, lower limb edema, angioneurotic edema, uriticaria, hypersensitivity, sweating increased, erythema, chest pain, atrial fibrillation, congestive heart failure, myocardial infarction, blood pressure increased, hypertension aggravated, hypotension (including postural hypotension), hyperkalemia, syncope, dyspepsia, diarrhea, pain, urinary tract infection, erectile dysfunc-tion, back pain, abdominal pain, muscle cramps (including leg cramps), myalgia, bradycardia, eosinophila, thrombocytopenia, uric acid increased, abnormal hepatic function/liver disorder, renal impairment includ-ing acute renal failure, anemia, and increased CPK, anaphylactic reaction, and tendon pain (including tendonitis, tenosynovitis).

Rare cases of rhabdomyolysis have been reported in patients receiving angiotensin II receptor blockers, including telmisartan.

## Amlodipine

Gynecomastia has been reported infrequently and a causal relationship is uncertain. Jaundice and hepatic erzyme elevations (mostly consistent with cholestasis or hepatitis), in some cases severe enough to require hospitalization, have been reported in association with use of amlodipine.

## USE IN SPECIFIC POPULATIONS

USE IN SPECIFIC POPULATIONS Pregnancy: Teratogenic Effects, Pregnancy Categories C (first trimester) and D (second and third trimesters). See Warnings and Precautions. Nursing Mothers: Telmisartan: It is not known whether telmisar-tan is excreted in human milk, but telmisartan was shown to be present in the milk of lactating rats. Because of the potential for adverse effects on the nursing infant, decide whether to discontinue nursing or discontinue nursing while amlotipine is administered. Pediatric Use: Safety and effectiveness of TWYNSTA in pediatric patients have not been established. Geriatric Use: Safety and effectiveness of TWYNSTA in pediatric sive patients receiving a telmisartan/amlodipine combination in clinical studies, 605 (18%) patients were 65 wars of any or Ider and of these 98.70% (or interview). nursing while amlodigine is administered. **Pediatric Use:** Safety and effectiveness of TW/NSTA in pediatric patients have not been established. **Geriatric Use:** TW/NSTA Tablets: Of the total number of 3282 hyperten-sive patients have not been established. **Geriatric Use:** TW/NSTA Tablets: Of the total number of or safety of TW/NSTA tablets: Were observed in this patient population. *Telmisatran:* Of the total number of patients have of VM/NSTA tablets: The total number of patients receiving telmisartan in clinical studies, 551 (18.6%) were 65 to 74 years of age and 130 (44%) were patients receiving telmisartan in clinical studies, 551 (18.6%) were 65 to 74 years of age and 130 (44%) were patients receiving telmisartan in clinical studies, 551 (18.6%) were 65 to 74 years of age and 130 (44%) were to younger patients and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. *Amiodipine:* Clinical studies of amitodipine besylate tablets did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal or cardiac function, and of concomitant disease or other drug therapy. Elderly patients have decreased dearance of amiodipine e and amindipine 2.5 mg to telmisartan. The lowest dose of TW/NSTA is 40/5 mg; therefore, initial therapy with TW/NSTA tablets is not recommended in patients 75 years of age and older. **Hepatic Insufficiency.** Monitor carefully and uptitate slowly in patients with biliary obstructive disorders or hepatic insufficiency. Since patients with hepatic impair-ment have decreased clearance of amiod hepatically impaired patients. **Race:** The magnitude of blood pressure lowering in black patients approached that observed in non-black patients but the number of black patients was limited (237 of 1461 patients).

## OVERDOSAGE

Limited data are available with regard to overdosage in humans. The most likely manifestations of overdosage with telmisartan tablets would be hypotension, dizziness, and tachycardia; bradycardia could occur from parasympathetic (vagal) stimulation. If symptomatic hypotension should occur, supportive treatment should be instituted. Telmisartan is not removed by hemodialysis. Amlodipine

Single oral doses of amlodipine maleate equivalent to 40 mg/kg and 100 mg/kg amlodipine in mice and rats, respectively, caused deaths. Single oral doses equivalent to 4 or more mg/kg amlodipine in dogs (11 or more times the maximum recommended human dose on a mg/m<sup>2</sup> basis) caused a marked periphera vasodilation and hypotension

Overdosage might be expected to cause excessive peripheral vasodilation with marked hypotension. 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) who was hospitalized and had hypotension (10/50 mmHg) which normalized following plasma expansion. 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 (00/50 mmHg) which normalized following plasma expansion. 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 (Npotension (Npotension (Npotension (Npotension et al. 5) hours after ingestion and on subsequent observation (overnight) no sequelae was 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 fluids should be instituted. If hypotension remains unresponsive to these conservative measures, administration of vasopressors (such as phenyle-phrine) should be considered with attention to circulating volume and urine output. Intravenous calcium gluconate may help to reverse the effects of calcium entry blockade. As amlodipine is highly protein bound, hemodialysis is not likely to be of benefit.

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The early introduction of a variety of complementary foods is important for several reasons. Early experiences promote healthy eating patterns, said Dr. Greer. It's known that food flavors are transmitted to breast milk; infants whose mothers eat fruits and vegetables during lactation will have greater consumption of fruits and vegetables during childhood (Public Health Nutr. 2004;7:295-302). It's also been shown that infants are more accepting of food after repeated exposure (Am. J. Clin. Nutr. 2001;73:1080-5). Dr. Greer reported having no conflicts of interest. 

## **Strategy Shifts on Allergenic Foods**

elaying or avoiding the introduction of allergenic foods during a critical window in the first year of life doesn't appear to prevent the development of food allergies and may even put children at increased risk, according to Dr. Greer.

There is a lack of evidence to support food allergen avoidance in infants, he said. Any benefits appear to be largely in the first 3-4 months of life, when exclusive breastfeeding is of the greatest benefit for prevention of atopic disease.

Oral tolerance is an antigendriven process and depends on regular exposure to food antigens during an early window. Allergen avoidance may be unsuccessful or detrimental in allergy prevention in infants. There is some evidence that continued breastfeeding during new food introduction is beneficial in preventing atopic disease.

In 2008, the AAP recommended that complementary foods should not be introduced before 4-6 months and noted that there is no indication that delayed introduction of certain foods, including allergenic foods such as wheat, fish, egg, and peanut-containing products, protects against atopic disease (Pediatrics 2008;121:183-91).

Likewise, the European Society for Paediatric Gastroenterology, Hepatology, and Nutrition (ESPGHAN) recommended in 2008 that complementary foods should be introduced between 17 and 26 weeks. The group also recommended against the avoidance or late introduction of allergenic foods such as wheat, fish, egg, and peanut (J. Pediatr. Gastroenterol. Nutr. 2008;46:99-110).

Most allergic reactions to foods (90%) are due to eight food types: milk, eggs, peanuts, tree nuts, fish, shellfish, soy, and wheat. However, studies generally have not supported a protective effect for a maternal exclusionary diet during pregnancy; a diet excluding cow's milk, eggs, peanuts, and fish has not been found to protect against the development of atopic disease in infants.