

### The challenge of feeding baby

So finally you have a newcomer in the family. She's so beautiful, so lovable... and so hungry! What is the best

What is the best plan to provide her with healthy nutrition?
Breast milk, the way to go!
Physicians, scientists, nutritionists — and babies, we might add—unanimously agree that breast milk is the ideal nutrition for infants. For most infants, breast milk will provide all of the nutritional needs during the first year of life. It changes gradually with time, and it has more than 200 ingredients.

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In some cases, bables on breast milk need fluoride and vitamin D supplements; you need to discuss this with your pediatrician.

Breast milk contains antibodies, the immunologic factors that help the baby fight infections, so it can be considered baby's first immunization.

Breastfel bables are less prone to gastrointestinal, respiratory and ear infections, a They also have less chances of having diarrhea, allergies and insulin-dependent diabetes. Fats in breast milk are believed to be useful for the development of the brain and vision. and vision

In addition to nutritional and immunologic value, breast milk sup-ports the emotional relationship between the mother and the infant.

It's also inexpensive.

Mothers who breastfeed are less apt to develop anemia, breast cancer before menopause and osteomalacia (softening of the bones). Breastfeeding also helps the uterus get back to nor-mal size; therefore preventing post-partum bleeding.

#### Formula

Formula
Mothers who tried to breastfeed and
were unsuccessful, for any reason,
shouldn't feel guilty. At least they've
given it a try.
The family may decide, for various
reasons, to use formula. All formulas
are attempts to imitate breast milk.
Many different types of formula are
available. Most of them provide 20
calories per ounce, like breast milk.
Most formulas are made from cow's
milk.

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In some cases, the physician may recommend a special formula like soy formula, lactose-free formula or protein-hydrolyzed formula. Some of

tein-hydrolyzed formula. Some of these formulas are expensive. They are usually used for certain medical reasons, and the decision to choose one of them should always be discussed with the physician. Unmodified cow's milk should not be given to babies under 1 year of age. It is difficult to digest, doesn't have the vitamins and minerals necessary for the baby's growth, and has high concentrations of proteins and minerals that can stress a newborn's premature kidneys, leading to dehydration.

# Solid foods

When solid foods are started, give one ingredient at a time at weekly intervals. This way you can identify any food intolerance the baby may have. Rice cereal is a good food to

Please see FEEDING, B7





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Very mother hopes her buby will be healthy. But instead of just hoping for the best, pregnant women can now do more than ever to give their future children a head start on a healthy life.

Scientists and physicians are uncovering more links between a woman's diet and lifestyle during pregnancy, and the long-term health of her child. From diabetes to heart disease, birth defects to breast cancer, many serious and chronic diseases seem to arise in part because of conditions in the womb. This knowledge makes it possible for today's women to make better choices for their children's futures and themselves.

In her new book, Program Your Baby's Health. The Pregnancy Diet for Your Child's Lifetong Well-Being, University of Michigan Health System obstetries and gynecology predictions of the provided by the provided by M.P.H., RD, provides guidance for expectant mothers, women planning to get pregnant, and mothers of toddlers.

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toddlers.

The book pulls together time-honored tips from experts on prenntal care together with the latest medical knowledge. Even if they don't buy the book, the main point is for women to understand that every day counts during pregnancy, said Luke.

"The nine short months before birth shapes an individual's health for an entire lifetime. We now know from many studies around the world that how a baby grows before birth will influency that child's susceptibility to many chronic diseases."

#### Metabolic programming

BABY'S HEALTH

The Frequency Diel for Your Child's Efferny Well-being

Since mothers-to-be cannot control genetic risks or choices the child makes as she or he grows older, they must concentrate on taking care of their child in the womb. This approach is called metabolic programming, a concept rooted in the knowledge that for a developing fetus, different organs—from the brain to the kidneys—form and grow at different rates.

Research has found there are critical periods during which the environment surrounding the fetus such as the supply of nutrients and blood through the umbilical cord – can have a great impact on the final size and function of organs. If one organ is at a and function of organs. If one organ is at a critical point in devel-opment when the

environment changes other organs might take a back seat, resulting in less cell growth, smaller size or decreased func-tion. That, in turn, tion. That, in turn, can hamper growth or help bring on disease when a child

"We cannot go back in time and recreate those optimal windows. That time is gone, and technology cannot make up for it," said Luke. "Babies born malnourished, with a low birth weight, or small for the number of months they spend in the wormh need to be monitored for chronic diseases and given proventive care to keep them from developing long-term problems."

grows up. "We

Preventing problems "In general, it is very helpful as an obstetrician to talk with a woman before she gets pregnant," said Dr. Dan McMurrie, department head of obstetries and gynecology at St. Joseph Mercy Hospital. "That's the time to identify potential risks. It also allows time to order testing for certain conditions in

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It's also the time to discuss what medications a woman is taking, so safer alternatives can be prescribed if necessary, said McMurtrie. For instance, certain anti-seisure medications pose higher risks than others for pregnant women.

Most mothers are 'highly motivated' to do everything they can to deliver a healthy baby, said McMurtrie. It's amazing how many women stop smoking while pregnant."

Smoking is one of the worst things pregnant women can do, said Luke. "There are thousands of chemicals in cigarette smoke, including cyanide and carbon monoxide. Children whose mothers smoke during pregnancy don't get enough caygen, and they're exposed to many taxins before they're born."

Smoking can result in low-birth weight, pre-term birth or the abruption or separation of the placenta, an emergency situation, said McMurtrie.

Alcohol is another major culprit. "Alcohol crosses all the barriors in the human body. It interferes with protein synthesis, and building protein is really

**II** 'The nine short months before birth shapes an individual's health for an entire lifetime.'

Dr. Barbara Luke Obstetrics and Gynecology Professor University of Michigan Health System

what babies are doing most. So women should abstain from alcohol during pregnancy," said Luke.

#### Nutrition

Good nutrition before and during pregnancy is paramount, since babies get all of their nutrition from the mother's stores, as well as what she eats on

from the mother's stores, as well as what she cats on a daily basis.

"Babies who grow well before delivery are the healthlest at birth and continue to be healthly infants and children," said Luke. "Babies who are poorly grown at birth, although we have the technology to help them survive, often pay the price for being born too small or too early when they get further on in childhood."

uer on in childhood."

Birth weight is the most important indicator of how well babies will do," said McMurtrie.

He added that it's important to remember that a growing fetus will take from its mother what it needs nutritionally, sometimes leaching calcium and iron supplies, which may result in bone loss or anemia. A good diet and vitamin supplement is essential.

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A healthy weight gain is also essential. Even highly weight-conscious women need to follow their doctors' guidelines for weight gain during pregnancy, including the early weeks when the placeanta is forming. And the weight gain should come from healthy food, not empty calories.

There are no set determinants of how much weight a woman should gain during pregnancy. We know women who are overweight can have a healthy pregnancy with a weight gain of 15 to 25 pounds. An underweight woman could gain at least 40 pounds,"

# Preemie Stars do WalkAmerica for the March of Dimes

Every year since the mid-1990s, young March of Dimes ambassadors Katie and Danny Blacker of Livonia have made the pilgrimage — with their parents — to WalkAmerica.

Both born prematurely but now the picture of health, they participate in the Preemie Stars walk team — captained by their mom, Laurie Blacker — to raise money to help promote healthy babies and prenatal care.

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It is a single to different. The Blackers will walkon Saturday, April 28, from the Plymouth Walkmerica site. Nearly 20 families in the Preemic Stars
are expected to make the eight-mile trek through
downtown Plymouth, originating from Hines Park at
9 am. (Registration begins at 6 a.m.)

"It's a good way to give something back," Laurie
said. 'It sounds cliched, but in this case it happens
to be true."

Of course, Laurie and her husband, David Blacker, would like to see many more families with preemies raising money and doing the walk. They are
welcome to step forward, literally.

"It's hard to get the word out there that we exist,"
Laurie said. "We picked up a couple interested people along the walk route last year, but it's hard to
get recruits."

According to Blacker, the Preemie Stars is "the

get recruits."

According to Blacker, the Preemie Stars is "the only team that's made up of beneficiaries of the March of Dimes. It's the only preemie walk team. "Many walk teams come together as corporate entities, such as Kmart or Kroger. But, Blacker said,

with the Preemie Stars it is "much more personal."
March of Dimes-financed research has helped promote breakthroughs in medicine that in the last decade or so have benefited premature babies such as Katie and Danny, now ages 10 and 7, respective-level.

ly. In the "Club Preemie" chapter of a 1999 book on



Walking for bables: The Preemie Stars again will be walking in Plymouth at the April 28 WalkAmerica. Pictured from left are Katie Blacker, her mom Laurie Blacker, Tim and Elizabeth Smith, all of Livonia. extreme prematurity by Detroit-area author Tim Smith (a reporter with the Observer & Eccentric Newspapers), Laurie Blacker reflected on how important it was for the March of Dimes to help pay for the research that led to a surfactant used to aid lung development. "Who knows if Katie, especially, would be alive today if it wasn't for stuff like surfactant," she said.

## Featured in preemie book

The Blackers and Preemie Stars team are fea-tured in Smith's 1999 book Miracle Birth Sto-ries of Very Premature Babies -- Little Thumbs

Up!
The author's daughter, Elizabeth, is another member of the Preemie Stars team. She was born at just 1 lb., 14 oz. in November 1994 and spent nearly four months in the Beaumont Hospital neonstal intensive care unit. Today, like Katie and Danny, she is a happy, healthy childs

