To fortify or not to fortify?

Laura Street Senior Nutrition Manager UKI

Kelloggs

"WE ARE A COMPANY OF DEDICATED PEOPLE, MAKING QUALITY PRODUCTS FOR A HEALTHIER WORLD"

KELLOGG WAS THE FIRST COMPANY TO:

• 1920s:

The first to employ a dietitian to work in the food industry.

• 1930s:

The first to print nutrition information on pack

The first to fortify its products in response to public health needs.

• 1980s:

The first to add folic acid to its products to help guard against neural tube defects in unborn babies.

2011:

Lead the way and fortified all of our family and children's range with 25% of the NRV for vitamin D

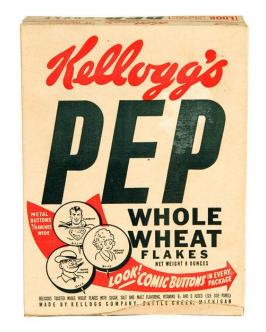
• 2018: Fortifying many of our cereals with 50% of the NRV for vitamin D



The first fortified cereal: PEP



Kellogg's® Pep™, became the first cereal fortified with vitamins through the "spray" method in 1930s





Current Fortification at Kellogg



6 B vitamins including folic acid

Iron

Calcium

Vitamin D

Zinc





Vitamin D: Category leadership in health







your daily dose

can be found in certai

exposing the skin to from supplements,

nutritional theranist

ple have heard of that term, but I'm con-

seems to be catching up with the

vounger generation at an alarm-

ing rate. As per a new study, 8

out of 10 youngsters under the

age group of 20 are diagnosed

with the condition in Chennai

to poor exposure to sunlight,

especially among the younger

Experts attribute the deficiency

Vitamin D, also known as sunshine

vitamin, is produced when the skin





Sunscreens can lead to vitamin D deficiency

may make you deficient in vitamin D, increasing your risk of muscle weakness and one fractures.

"People are spending less time outside and, when they do go out, they are typically wearing sunscreen, which nullifies the body's ability to

produce vitamin D," said Kim Pfotenhauer, assistant professor at Touro University California. "While we want people to protect themselves against skin cancer, there are healthy, moderate

DAILY EXPRESS

levels of unprotected sun exposure that can be

YOUR ESSENTIAL

very helpful in boosting vitamin D," he said.

Chronic diseases like Type 2 Diabetes and those related to malabsorption, including kidney disease, Crohn's and celiac disease greatly inhibit the body's ability to metabolise vitamin D from food sources, researchers said.

Considered a hormone rather than a vitamin. vitamin D is produced when skin is exposed to sunlight. Vitamin D receptors are found in virtually every cell in the human body. As a result, it plays a wide role in the body's functions, including cell growth modulation, neuromuscular and immune function and inflammation reduction.

Increasing and maintaining healthy vitamin D levels can be as easy as spending 5-30 minutes in midday sun twice per week. "You do not need to go sunbathing at the beach to get the benefits. A simple walk with arms and legs exposed is enough for most people," Pfotenhauer said.

Functions of Vitamin D



Build & maintain healthy bones and muscles



Maintain proper blood levels of calcium & phosphorus



Control cell division & specialization



times children don't play," she said. "Children are overpro their parents. Even w

detects and diagnos

said should his daugh

blood test, he would as to be checked for the

Dr Maysoon Kamil

Children may lac

Shu

norma

ical ser

from L

high le

'Parents should not prevent them from playing outdoors'

sunburns during entidation.

It is difficult to tell how much sun exposure you need to produce a certain amount of vitamin D. I would recommend making sure you expose yourself to the sun and t you regularly eat the foods that atain vitamin D. Sun exposure contain vitamin D. Sun exposure for 10 to 15 minutes to face, arms, hands or back, a couple of times a week, without sun cream. Vitamin D supplements, all year around, are recommended for those

people who are at risk of defi-ciency, such as the elderly or any-one who is housebound.

But supplementation is also r ommended for everyone else fr October until April, when there How much vitamin D supp



arms. The more skin you expose foods such as fatty fish, liver, egg yolk, red meat cheese butter, cod liver oil, and fortified only need about 15 minutes o which is formed by UV radiation in plants and up to two hours to produce the humans, vitamin D3 is better absorbed than is because they have

nced most people have heard about for your skin to get sunburned,

Kids should spend time outdoors to avoid Vitamin D deficienc **VITAL ENERGY**

Get your share of D this summer

The study conducted by Metropolis Healthcare Ltd covered more than a lakh samples between 2012 and 2016 between the 0 to 80 years age group. It was found that in the 10 to 20 years' age group, the deficiency was abnormally high at 88 per cent. The deficiency was also quite pronounced among women at 60 per cent, especially in the 40-50 age group, and among men at 65

is exposed to the sun. Hence the results of this study comes as a big surprise since Chennai is sunny for a major part of the year. This vitamin is important for the nourchildren barely spend time ishment of the bones and in insuf

among children, osteomalacia and osteoporosis among adults.

While talking to DT Next, Dr Naresh Shanmugam, director of Paediatrics, Gleneagles Global Health City, said that nowadays.

significantly. A few simple precautions can help evade the shortage

Top food items with Vitamin D

Fatty or oily

mackerel, and

Foods fortified with vitamin D, like some dairy products, orange juice, soy milk, and cereals

> Mushrooms (Portabel lo Exposed to Sunlight)

Egg yolks Cod liver oil ■ Tofu

> E Pork Beef liver E Cheese

ples showed insufficient Vitamin D with a major chunk in the age bracket of 40-50 years

21% of the total samples Showed Vitamin D

III in the age groups of 0-10 years, almost 81% samples showed a lack of Vitamin D and in the age group of 10-20 showed lack of Vitamin D

AMONG THE TOTAL SAMPLES RECEIVED

Almost 65% were detected with insufficient Vitamin D 18% of the total samples

showed deficiency of Vitamin D In the 0-10 years age bracket, 80% samples showed lack of Vitamin D while in the age bracket

of 10-20 years, over 85%

showed lack of Vitamin D

cases with high levels of Vitamin D deficiency. They also sweat excessively, especially on the forehead and complain of pain in various parts of the body. A closer diagnosis reveals the deficiency. The main reason for it is that they do not spend time outdoors in the sun and are either glued to technology or play later in the evening," he

ant endocrinologist, said that the deficiency rates could be higher. but it is only diagnosed in those who have the symptoms. "If a for the levels and try to correct it. It is definitely high at as much as

time of of dark absorb Sriniv high le

Dr Bhuma Srinivasan, consultwoman has osteoporosis we check

sue samples.
"Because of this he are playing outdoors, is covered, so they a posed to the sun."

ogy at Burjeel Hospita saw many children w







Who is at risk of Vitamin D deficiency?



Sünshine VITAMIN

vitamin

Who is at risk of Vit D Deficiency?

85% lower-than-optimal vitamin D levels

People With Limited Sun Exposure

We need 10-15 minutes of UVB per day with 40% of our skin exposed.

The Elderly

As you age, your skin loses the ability to generate Vitamin D.

Overweight People

Vitamin D is oil soluble & hides in fat.

Dark-Skinned People

The pigmentation of darker-skinned people blocks UVB radiation.

Pregnant Women

Those with pregnancy-related high blood pressure or preeclampsia, have lower blood levels of D.

Infants

Human breast milk contains low levels of vitamin D.

Kellogg's commitment to fortification



 Continue to provide choice of nutrients and a variety of nutrient bundles across our portfolio

Continue to monitor and respond to public health needs

