Know the value of the dairy industry



Consumer Education Project of Milk SA 2016 Seminars



Purpose of the meeting today

Challenges when talking to other people about dairy?

Where do we get our information/knowledge from so that we are equipped with knowledge about the goodness of dairy?



Dairy must be part of your every day life You must have a dairy moment!



How do we motivate the people around us i.e. friends and family to consume more dairy?

Lastly, are you proud of the industry you work for?

https://www.youtube.com/watch?v=JCvQk9JBlrw

Who or which industry do you work for? How do you answer the question...



- ➤ Can you feel proud to be part of this dynamic industry?
- Can you be confident that the dairy is nutritious and improves lives of many people?
- ➤ Is it worth sharing the dairy message with friends and family?

TODAY – you will be empowered and inspired about dairy

MOMENT OF TRUTH



How many people earn their livelihood from dairy?

World wide the dairy sector touches approximately 1 billion people

- 121m dairy farms
- 600m people live on dairy farms
- 400m people are supported by a full-time jobs, created by dairy farming (including feed, fertilizing, milk collection, processing and retail)

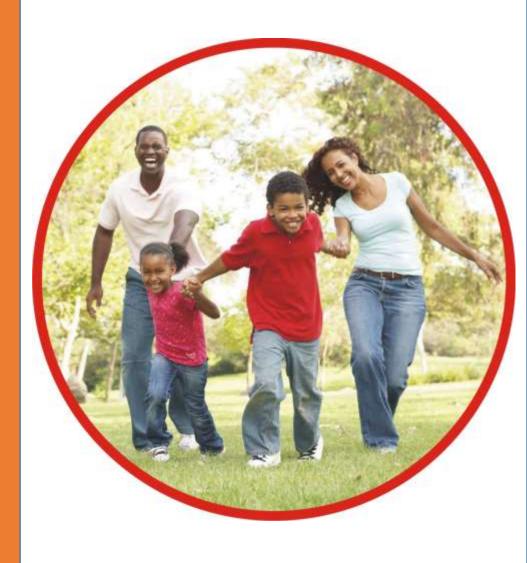


Source: Global dairy platform



Milk and dairy products play an important role in the well-being of all South Africans as it supplies important nutritional benefits in a tasty and satisfying way every day!

- Rich source of a wide range of nutrients which contributes to the quality of diets
- It is **vital to well-nourished children** improves learning ability
- Contributes to reducing risk of noncommunicable disease



Why is the dairy industry dynamic?





Pasteurised to long life

Classification system for dairy products: Introduction of R260

Initiative to selfregulate the industry through establishing Dairy Standard Agency Food safety

Plays important role in the economy through development of farm lands/country side which forms the backbone of the industry.

Innovation

Consumer Education Project – takes the interest of the consumer into consideration and placing dairy in the right place minds of consumer.

Networking on international level Members of IDF, GDP and IMP

Institutional innovation **SAMPRO** is a pioneer in bringing the dairy industry together within the competition act.

Yoghurt – product innovation in product and packaging.

Advanced technology used at dairy farms. Highly scientific farming practices are found in SA

How do we 'build' the industry?

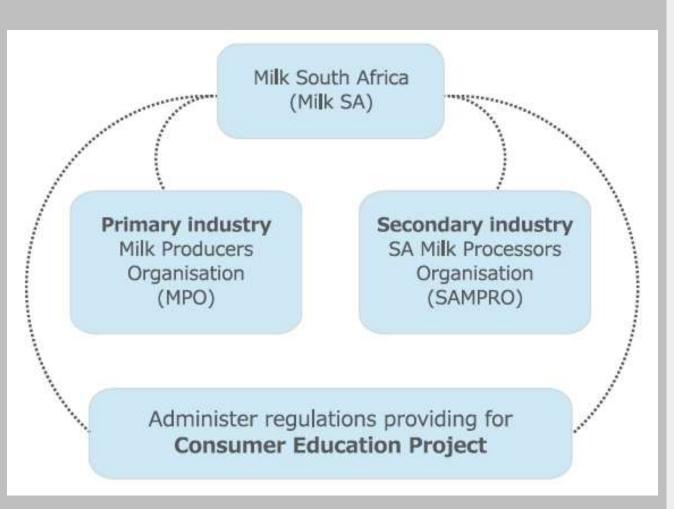
- Build trust in the products
- Communicate the quality of nutrients present in dairy
- Safety of dairy products on the market
- Innovation of the industry







Aims of the project



- Educate consumers on the health and nutritional benefits of the product
- Address misconceptions about the product among consumers
- Positively change consumer behaviour with respect to consumption of a certain product

Agricultural Marketing Act Regulation 57

"From a national point of view and to promote the viability of the dairy industry, consumers should be informed of the health and nutritional advantages of milk and other dairy products.

Informed consumers will not only contribute to the national well-being in respect of nutrition and health, but especially also to the viability and sound development of the dairy industry.

The education will be conducted in such a way that it will not erode the marketing activities of any firm in the dairy industry that are aimed at differentiating its products from that of competitors".



Nature of the project

TEENAGERS AND YOUNG ADULTS LSM 6-10

PARENTS: MOTHERS WITH CHILDREN LSM 6-10

PRIMARY SCHOOLS

SPORTS COMMUNITY:



General communication element

Messages of a scientific nature based on health and nutritional benefits of dairy, conveyed to consumers.

TARGET MARKETS	MEDIA SELECTION AND COMMUNICATION CHANNEL

COMMUNICATION PRODUCTS

Television	Television advertisements
Facebook	Facebook: Dairy gives you go
Digital advertising	Digital advertising on social media sites and other websites
Microsite	www.dairygivesyougo,co.za
Website	www.rediscoverdairy.co.za
Print/published material	Booldet: Sport nutrition and the role of dairy; fact sheet
	Promotional articles
Print/consumer magazines	Promotional articles

Print/consumer magazines	Promotional articles Fact sheets and leaflets*
Websites	www.rediscoverdairy.co.za www.dairygivesyougo.co.z
Television	Television advertisements

	Government dinics
LOW SOCIO-ECONOMIC CONSUMERS	
LSM 4-6	

Educational presentations to patients and consumers

School kit consisting of: Classroom posters,

. Grade 4-7: Guidelines for

website for grades 1-3 and grades 4-7 www,dairykids,co,za www.dairygivesyougo.co.za www.rediscoverdairy.co.za

Booklet: Sport nutrition and the role of dairy

Sports fact sheet

milicshakes

healthy eating

Leaflets in 9 different languages Poster for dinics

Printed/published material.... Promotional articles

Educational Material for: · Primary schools

> Milk Processors (involved in action) tours and education) · Department of Basic Education

· Milk Producers Organisation

GRADES 1-3 AND 4-7 TEACHERS AND SCHOOL LEARNERS LSM 4 - 10

Printed/published material....

ATHLETES & COACHES Promotional articles LSM 6 - 10 Websites... www.rediscoverdairy.co.za www.dairygivesyougo.co.za

teacher's guides and fact sheets . Grades 1-3: From miking to Audio visual for grades 4-7: Guidelines for healthy eating · Worksheets on E-Classroom

Nature of the project



Specialised communication element

Messages of a scientific nature based on research results regarding dairy health and nutrition, conveyed to health professionals.

TARGET MARKETS	MEDIA SELECTION AND COMMUNICATION CHANNEL	COMMUNICATION PRODUCTS
University lecturers Dietetic students Government clinics Tertiary training hospitals Department of Health Dietitians in private practice	Printed/published material	USB Teaching Aid Educational Tool: Healthy eating for the whole family Scientific advertorials Nutrition reviews Dairy-based nutrition booklet Sports booklet CPD articles and symposiums www.rediscoverdairy.co.za including the Dairy Health Forum Smart phone App: Dairy nutrition information hub Presentations at conferences, symposiums and sports related events Training tool kit: Dairy training tool for clinics
NUTRITION ADVISORS AND HEALTH PROMOTERS	Department of health Government dinics	Presentations at conferences, symposiums and sports related events Training tool kit: Dairy braining tool for clinics Set of 8 visual posters for educational presentation purposes Leaflets in 9 different languages Leaflets in 9 different languages Dairy-based nutrition booklet Poster: Have milk, mass or voghurt www.rediscoverdairy.co.za including the Dairy Health Forum Scientific advertorials Nutrition reviews www.rediscoverdairy.co.za including Dairy Health Forum Smart phone app:
DOCTORS NURSES	Printed/published material Website	Scientific advertorials Nutrition reviews www.rediscoverdairy.co.za including Dairy Health Forum Smart phone app; Dairy mutrition information hub

www.rediscoverdairy.co.za . Info@rediscoverdairy.co.za . (T) 012 991 4164 . (F) 012 991 4134

Why the need for Consumer Education









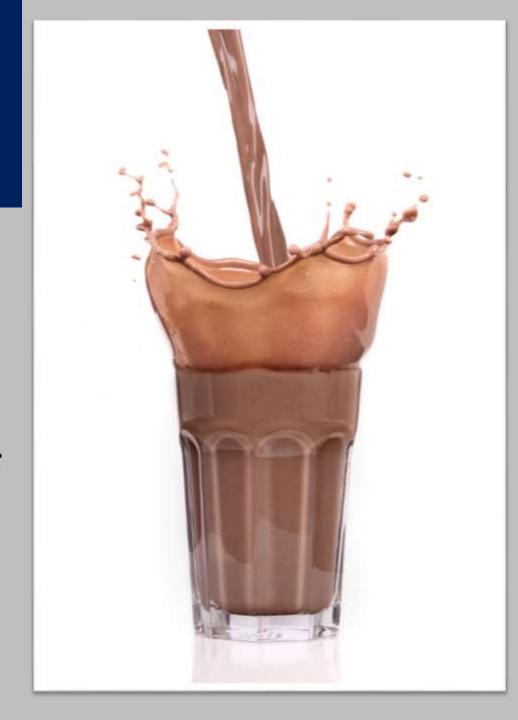
Dairy competes with all products

Dairy is a diverse set of individual products used by consumers in different ways, times and purposes.



Why the need for Consumer Education

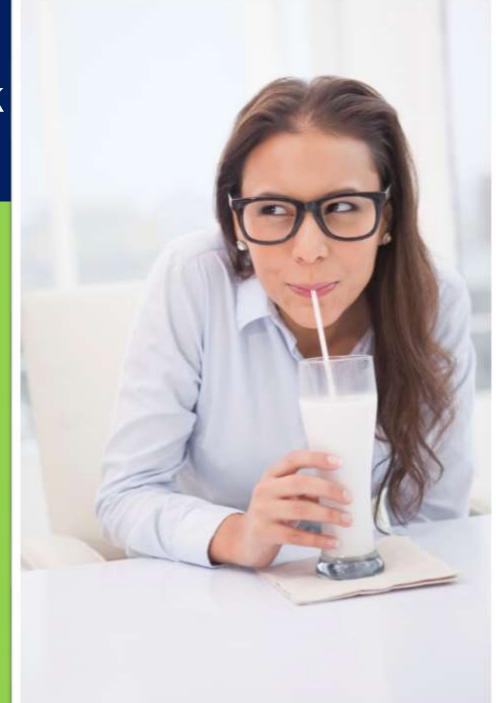
- How to package the dairy health and nutrition messages.
- Bring dairy into the lifestyle of the consumer.



Building the industry through the Consumer Education Project of Milk SA

General communication target audiences

- Teenagers and young adults (LSM 6-10)
- Parents: Mothers with children (LSM 6-10)
- Low socio-economic consumers (LSM 4-6)
- Primary schools: Grd 1-3 and 4-7
- Sports community: Athletes and coaches (LSM 6-10)



TARGET: Teenagers

Television

Facebook

Tasty Tuesday Treats





https://www.youtube.com/user/DairyGivesYouGo









WHY Teenagers?

- South Africa is a 'young' country with a very high percentage of teenagers within the population pyramid;
- Teenagers have fast growing purchasing power;
- Teenagers influence parents' purchasing decisions;
- High levels of communication and interaction among teenagers, which offers a very good chance to leverage marketing efforts through word of mouth;









WHY Teenagers?

- Teenagers are more open to advertising messages than older target groups if communicated in the correct manner;
- Teenagers are homogenous in terms of changing attitudes;
- Teenagers display little LSM differentiation, which means have typical teenage attitudes independent from living standard and income; and
- Teenagers of today are the adults of tomorrow.

Teenagers: Television

Television Aim Message 1. Take dairy out of its traditional space of the kitchen. 2. Place dairy in the everyday life-space of the teepager			
traditional space of the kitchen. 2. Place dairy in the everyday life-space of	Television	Aim	Message
activities Energy in everyday activities		traditional space of the kitchen. 2. Place dairy in the	Energy in everyday

Teenagers: Social media

Facebook and digital Daily Olives You Go Full Daily Olives You Go Full Daily Olives Wild Daily of TRICE - 60 What's your favouritie way to keeping your body ACHTHeGoT Show us and stand a chance to win one of two ROSO sportscene vauchers.







1. Engage with teens

Aim

- 2. Benefit driven messages
- 3. Engage with the campaign
- 4. Create traffic to the website

1. Goodness of dairy

Messages

- 2. Six key messages
- 3. Benefits of dairy in the diet

SOCIAL MEDIATasty Tuesday treats



Teenagers: Website

Television

Facebook

Website











www.dairygivesyougo.co.za

Infographics

NEW TELEVISION ADVERTS TO BE LAUNCHED IN October

Testing of TV ads before and after development:

- Do teenagers grasp the intended message?
- What is the impact of the 'go-guy' in the advertisements?
- Which of the advertisements are most positively received by teenagers?





TARGET: Mothers with children







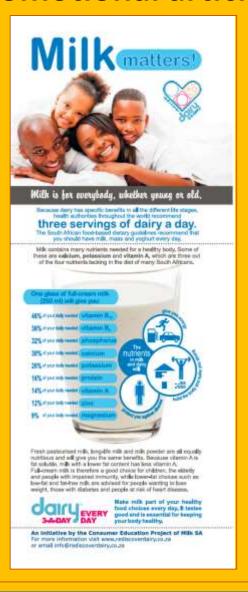




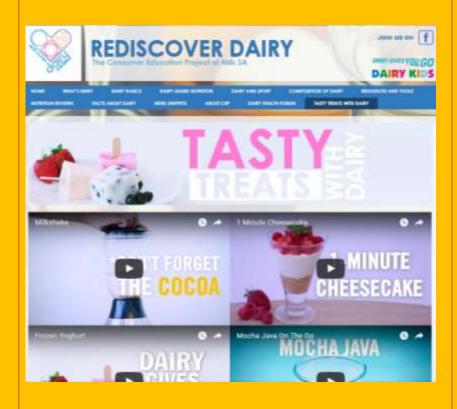


PARENTS: Mothers with children

Promotional articles



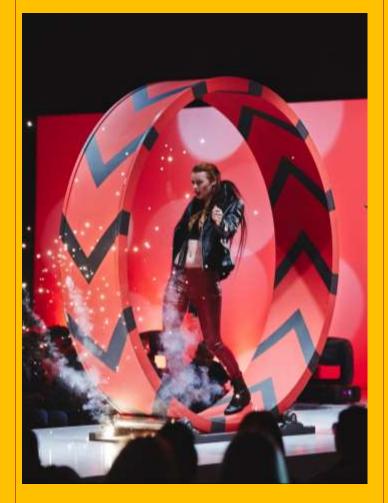
Websites



www.rediscoverdairy.co.za

www.dairygivesyougo.co.za

Television



Mothers with children



 Create awareness of the goodness of dairy in the diet

Aim

Give a reason WHY dairy must be part of every day diet



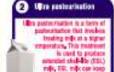
1. Benefits of dairy in the diet

Messages

- 2. HOW to include dairy in the diet of the child
- 3. Six key messages
 - Bone building
 - Muscle strength
 - Nutrient rich
 - Fat content
 - Weight control
 - 3-A-Day









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for more than 14 does I

kept refrigerated

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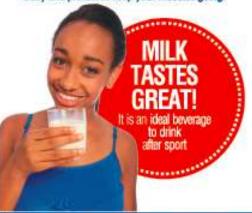
It is diegal to sell row milk in Swith Africa select it is approved by the booth authorities. thelry not only given your body amough energy for the day but also provides the nutrients it mode to function at its loot, Denett from these nutrients by having three sursings of dairy a day



An initiative by the Consumer Education Project of Milk SA For more information visit www.rediscoverdairy.co.za or email info@rediscoverdatry_co_ra

Milk and Sport

During training - whether at the gym or on the sports field - your body uses energy to fuel your body and protein to keep your muscles going.



Milk has the right amounts of carbohydrate and protein to help your body recover more quickly after exercise.

Milk provides fluids and electrolytes to help you rehydrate after exercise,

************************ what do you need AFTER TRAINING? T A A

Drinking a glass of milk or flavoured milk after exercise will help your body recover and prepare for your next activity. Flavoured milk has added carbohydrates because it is sweetened, which means you get more energy when you need to train harder. You also lose electrolytes through sweat. After training you need to replace the energy, prolein and electrolytes your body has used,

Remember

Milk is convenient and tastes good, especially when served load cold, Milk contains a mix of nutrients that help you recover and rebuild muscles faster.

Drinking milk or flavoured milk after any physical activity is ideal to replace:

CARBOHYDRATES - ELECTROLYTES - PROTEIN



An initiative by the Consumer Education Project of Milk SA For more information visit www.rediscoverdainy.co.as or email info@rediscoverdairy.co.za



Our on-the-go lifestyls has made snacking a way of life. When it comes to snacking, you want to satisfy your

AND your taste buds, yet still make a smart choice. Everyone snacks, but not everyone thinks before they snack!

5 reasons to choose dairy as a snack

- 1. Opery products are convenient, testy end versattle enacks that are ideal for any time of the stay, expectally when you are nished.
- 2. Dairy products are a apuron of hey natriants. You need nutrients. every stay to keep your feedly freeffily.
- 3. Children love the taste of datry include 8 8 - Est yeghert in between me In their Janathbox to give them key subtented
- 4. Dairy products contain into of outrients In a single product, witten in merray well appeart.
- 5. Mikard financed milit are Ideal Birst. quanchers after a nan or work-red.

dairy snack ideas

. Chases mass (arread), milk. Devoursed mile or drinking yeghert. se a beverage.









These are exching dairy products on the market.

These include mass, yegiturt and drinking yegiturt, cheese, milk and flavoured milk.

Now you will never have an excuse to not snack smartly!



An initiative by the Consumer Education Project of Milk SA For more information visit www.rediscoverdairy.co.za or email info@red/scoverdatry_co_xx

Consumer Print

- Stokvel on 27 August.
- Advertorial topics focus on
- 1. individual dairy products so that the message is spread evenly across the categories
- 2. within the 'nutrient rich'
- 3. and 3-A-day messages



STOKVEL EVENT ANNOUNCEMENT









Recause dairy has apecific benefits to all the different life stages. health authorities throughout the world recommend three servings of dairy a day.

The Seuth African food-based distary quidolines recommend that you should have milk, make and yoghurt every day. M& contains many nutrients needed for a healthy body. Some of Trese are ealelum, petassium and vitamin A, which are three out of the four nutrients facing in the diet of many South Africans.



Fresh pasterarised milk, leog-ble milk and milk powder are all equally multitizes and will give you the same benefits. Securies vitamin A is fat soluble, milk with a lower fat content has less vitamin A. Full-gream milk is Everetice a good choice for children, the eliterly and people with impaired instructly, while lower lat choices such as: low-fat and fat-free milk are advised for people worting to foce weight, those with diabetes and people at risk of heart disease

An initiative by the Consumer Education Project of Milk SA. For more information visit www.replaceventairy.co.re



or email info@rediscoverdairy,co.za

Make milk part of your health; food choices every day. It tastes good and is expential for keeping

BE PART OF THIS AMAZING EVENT

E are celebrating Women's Month and what a better way to celebrate women than by throwing a stellar event.

Movel editor, Nonzwakazi Cekete, invites you to join us as we celebrate women in style. Come in your heels and red dress to this lifestyle event, which will leave you feeling pampered and informed.

THE LINE-UP:

- AVBOB representative will educate you on the Group
- Thulisile Ntombela will share how to become an independent Avon representative and earn extra money.

- Movel fashion and beauty editor, Alexis Tshangana, will give you beauty and fashion tips for the season.
- Consumer Education Project of Milk SA representative. Khanyi Mjwara, will talk to you about the health and nutritional benefits of milk and other dairy products.
- Linda Venter will give you some sewing tips and Information about the Bernette Sew & Go machines by BERNINA International.
- Apostle Sibongile Sithole will deliver the word of God. Singer Tina Zungu will deliver
- powerful sonas. Gospel star, Putuma Tiso, will bless you with spiritual songs.

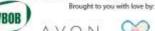
FABULOUS SPOT PRIZES TO BE WON

- A lucky reader stands a chance to win RT 000.
- Two Bernette Sew & Go machines to be won.
- The best-dressed lady will receive an Avon hamper worth

R200 each, including lunch and refreshments DATE: 27 August 2016 TIME: 8:30am for 9am ENUE: Image Lifestyle Wedding and Conference Venue DRESS: 85 Mint Road, Cnr Carr itreet, Newtown, Johannesbur

DRESS CODE: Lady in Red ALL ATTENDEES WILL RECEIVE A GOODIE BAG

TYCHRYS DELY ASSESSMENT AT-





Consumer Print and Dairy health forum: New classification system



The Dairy Health Forum

New dairy regulation: fat content

dessificacion of dalar and data in Courts Africa and in

The reclassification of dairy products in South Africa was introduced end of March 2016, Jompie Burger of the Dairy Standard Agency, our expert for this FORUM, explains what the reclassification means to consumers and industry.

What is different

in the new regulation?

According to the new dairy and imitation dairy

products Regulation 260, one of the important changes is that the fat classes for milk have been redefined. The new fat classes will give consumers more choice when buying dainy products. The most notable change is that a medium-fat class has been introduced. Milk in this class has a fat content of more than 1.5% to 3.5%. Previously, low-fat milk was classified as having 0.5% to 2.5% fat, According to the new definition, the fat content of low-fat milk should now be more than 0.5% to 1.5%. Therefore, 2% milk will no longe to classified as low-fat, but as 2% medium-fat milk.



How are the new fat classes defined?

The table being suffiner the new fat classes for milk

The table below outlin	es the new fat classes for milk		
Class designation	Previous legislation R 2581	New legislation R 260	
	Fat content (%)	Fat content (%)	Alternate class designation
High-fat milk	At least 4.5	More than 4.5	
Full-fat milk	At least 3.3 but not more than 4.5	More than 3.3 to 4.5	Full-cream milk Whole milk Milk
Medium-fat milk	Not in regulation	More than 1.5 to 3.3	% Medium-fat milk % Medium-cream milk
Low-fat milk	At least 0.5 but not more than 2.5	More than 0.5 to 1.5	Low-fat milk
Fat-free milk	Not more than 0.5	Not more than 0.5	Skimmed milk

What is the carbohydrate content of milk?

The carbohydrate (lactose) content of milk is typically 4.8%, but can vary between 4.7% and 5.0% across the different types of milk.

What is the protein content of milk in the different fat classes?

Regulation 260 stipulates a minimum protein content of 3% in milk, calculated for fat-free milk. Typically, the protein content can vary between 3.2% and 3.4% across the different types of milk.



The Dairy Health Forum

New dairy regulation: fat content

Nn. 3

Why was the regulation revised?

The changes are mainly as a result of the need to align national legislation with international standards.

According to health legislation and international standards, dairy products cannot be claimed to be flowfarf if the total fat content exceeds 1.5% in the case of liquid products, such as mills, or 3% in the case of solid food products.

As South Africa is a member of the World Trade Organization and therefore subscribes to the rules of fair international trade, the amendment also prevents possible technical trade barriers.



An Initiative by the Consumer Education Project of Milk SA For more information email: info@rediscoverdairy.co.za or visit our website at: www.rediscoverdairy.co.za

Does the new regulation also apply to yoghurt and cheese?



Yes, the redefinition of the fatclasses also affects other dairy products. Regulation 260 provides fat classes for dairy products such as milk, bottemilk, cultived milk (maas), yoghurt, drinking yoghurt, cottage cheese, evaporated milk and condensed milk. This means that some products formerly classified as low-fat are now classified as medium-fat products.

By when do companies have to comply with the new regulation?

The Department of Agriculture, Forestry and Fisheries confirmed that Regulation 260, published in the Government Gazette on 27 March 2015, came into effect on 28 March 2016. Companies have to comply with the requirements of the new regulation by 30 September 2016. Departmental inspectors have been instructed to proceed directly to issuing seizures of non-compliant products after that date.

Our expert:

Jompie Burger is the Managing Director of the Dairy Standard Agency (DSA), an independent nonprofit organisation which primary objective is to promote dairy quality (product composition) and safety in the Interest of the Industry and the consumer. Visit: www.dairystandard.co.za





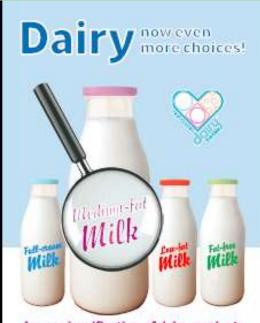
A new classification of dairy products was introduced in South Africa at the end of March 2016.

You now have even more choices when buying dairy products. The most notable change is that a

medium-fat class has been introduced.

The reclassification also affects other dairy products, such as buttermills, mass, yeighurt, drinking yeighurt, cottage cheese, evaporated milk and condensed milk. Let your choices count? Be sure to include 3 servings of dairy every day to benefit from all the important nutrients in dairy.





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Reaching low-income consumers













Aim:

To educate and inform on the value of dairy in the diet.





Staple food is:

- Maize meal porridge
- Bread
- Black tea with sugar

Poverty stricken







Poor nutritional status Not enough knowledge to make healthy choices

Message that is delivered

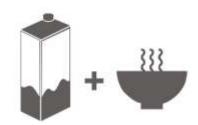
- Value of dairy in the diet
- Dairy is nutritional value for money





add 1 cup of milk to pap for

R3.63



add 2 cups of amasi to half a loaf of bread



1. Government clinics and hospitals

Government Clinics – educational presentations

- Consumers / patients waiting
- Entertain/ educate and deliver a dairy health message

Messages

"Have milk
maas or
yoghurt every
day"



Dairy improves the quality of the diet.

Just add 'dairy' to you every day meal



2. Reaching the group through trained health educators



Consumer Education
Project of Milk SA (CEP)
provides training opportunity to
train-the-trainer



CEP

Contract with service provider that can overcome obstacles at rural level



Liaison with authorities:

- Dept of Health
- District office
- Dietitian of District office







Obstacles with Authorities

- Sceptical towards 'marketing activities' messages
- SA Food-based dietary guidelines
- Balanced diet
- Training by dietitian

Training of Service provider's Health Educators





Train the Trainer

Training of DOH Health Promoters (HO)





Each HP responsible for one clinic in rural area

Training of Service provider's Health Educators



Consumer Education Project

- Set goals per year
- Develop communication messages
- Develop training aids
- Train the Health educators
- Test health educators
- Ensure present professional



Train the Trainer

Training of DOH Health Promoters (HO)

Each HP responsible for one clinic in rural area



Trained by the CEP dietitian and Health Educators



Message is repeated 3 times

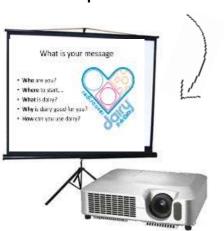
Health promoter is equipped to deliver the dairy and health message to the low-income consumers.



Invest \$30/person (R400 ZAR)

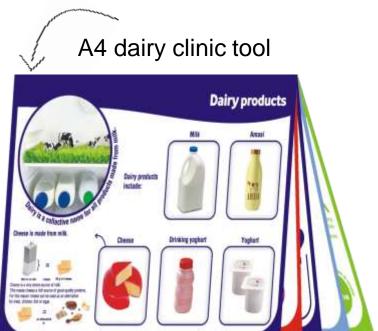
Provided with:

Lesson plan and PPT





Dairy-based nutrition booklet

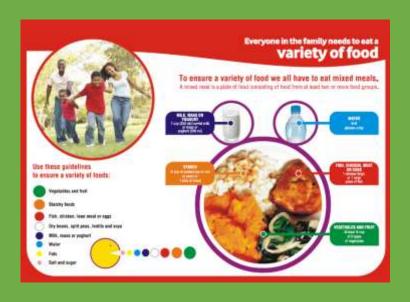


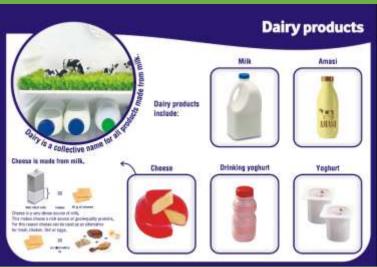
Posters for clinic





Lesson plan







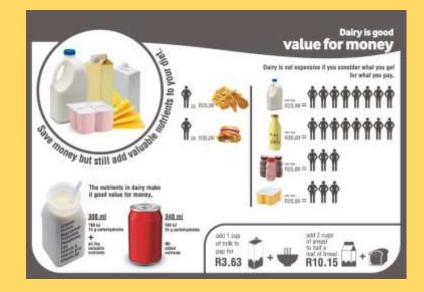












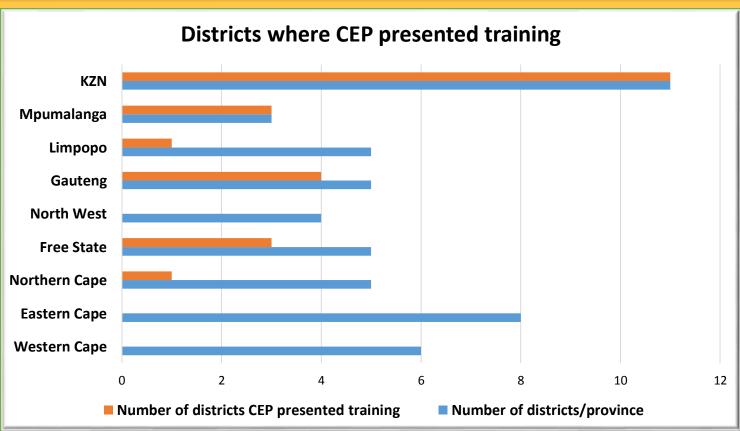


Program reach

- 44% of districts in SA
- 871 Nutrition advisors and Health promoters

















How do we 'build' the industry? RECAP!

- Equipped with knowledge
- Have the TV ad on your phone
- Know the website i.e.

www.dairygivesyougo

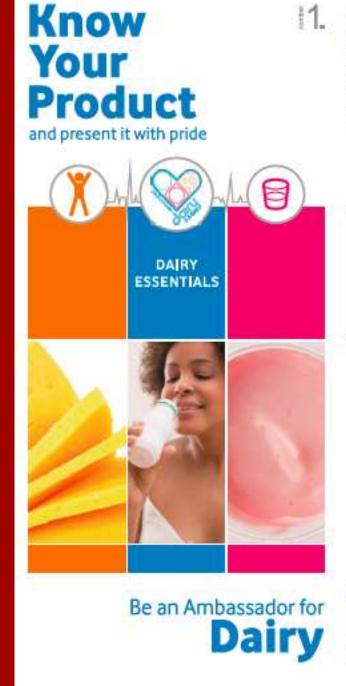
- Facebook page: DGYG
- Use 'moment of truth'



10 facts the leaflet can teach you

- 1. Nutrients in dairy
- 2. Why is dairy good for you
- 3. How to add dairy to the diet
- 4. Types of milk available
- 5. Importance of calcium
- 6. How much calcium
- 7. Bone building stages in life
- 8. Lactose intolerance
- 9. Rehydration with dairy
- 10.Dental health

You need 3 servings of dairy a day





Building the industry through the Consumer Education Project of Milk SA

Specialised communication target audiences

Dietitians and nutritionists

Nutrition advisors and health promoters

Doctors

Nurses



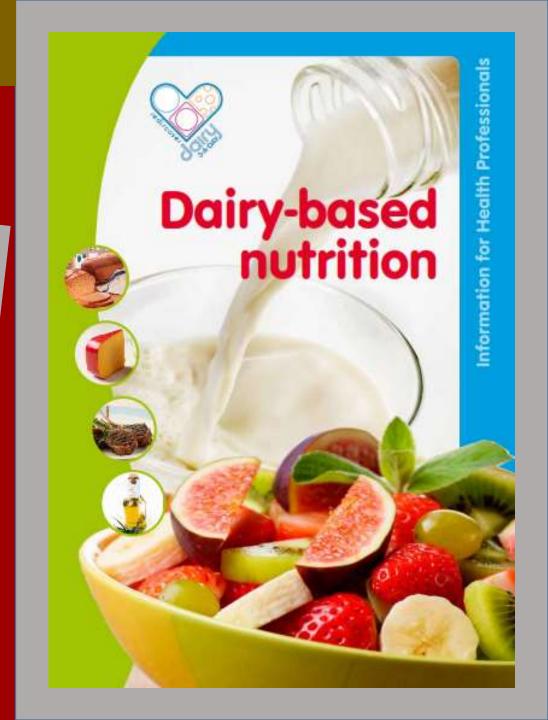
Health professionals

Aim Inform of health benefits

- 1. Health and nutrition
- 2. Scientific based
- 3. Credible messages
- 4. New research results

Dairy-based nutrition

- Protein quality
- Saturated fats
- Diabetes
- Hypertension
- Sarcopenia
- Lactose and galactose



Health Professionals

Technical advisory committee

- Dr Friede Wenhold
- Dr Zelda White
- Dr Tuschka Reynders
- Prof Rene Blaauw
- Prof Corinne Walsh
- Nicki de Villiers
- Dr Ingrid van Heerden



Health Professional

Elements

- 1. Scientific advertorials and nutrition reviews
- 2. Continuous Professional Development events and articles
- 3. Presentations at ADSA event and regional meetings
- 4. University students

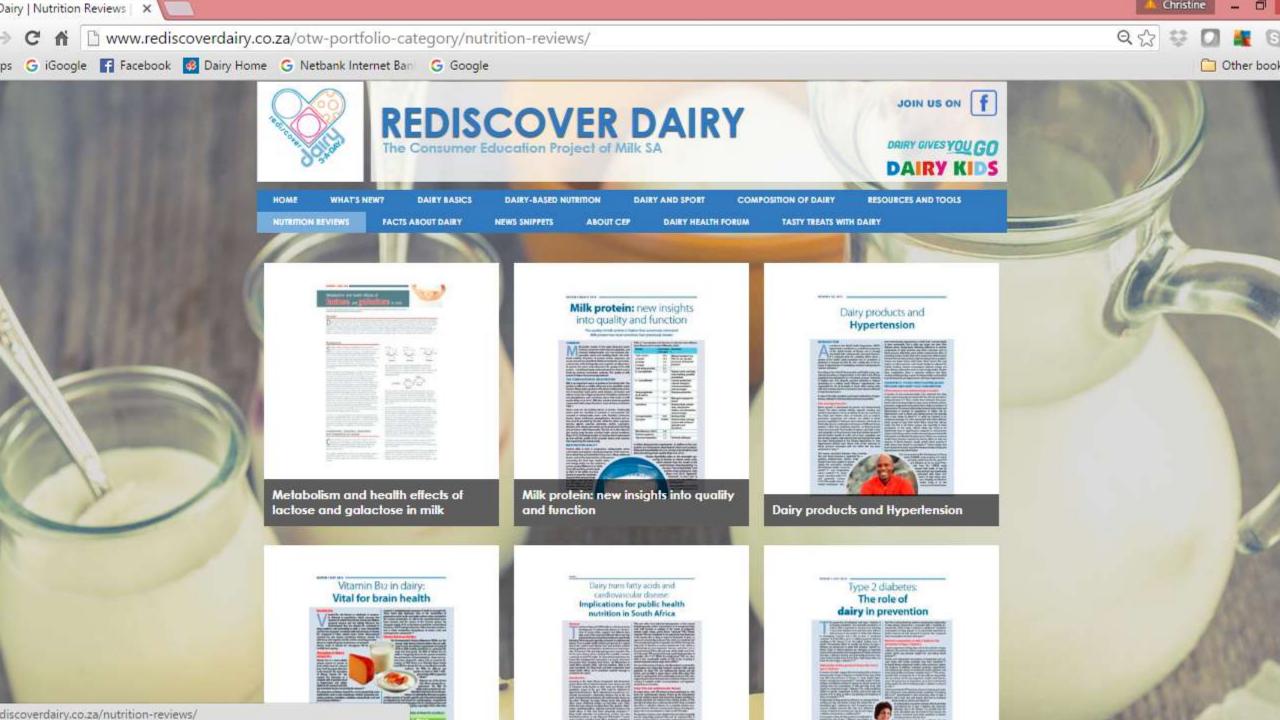


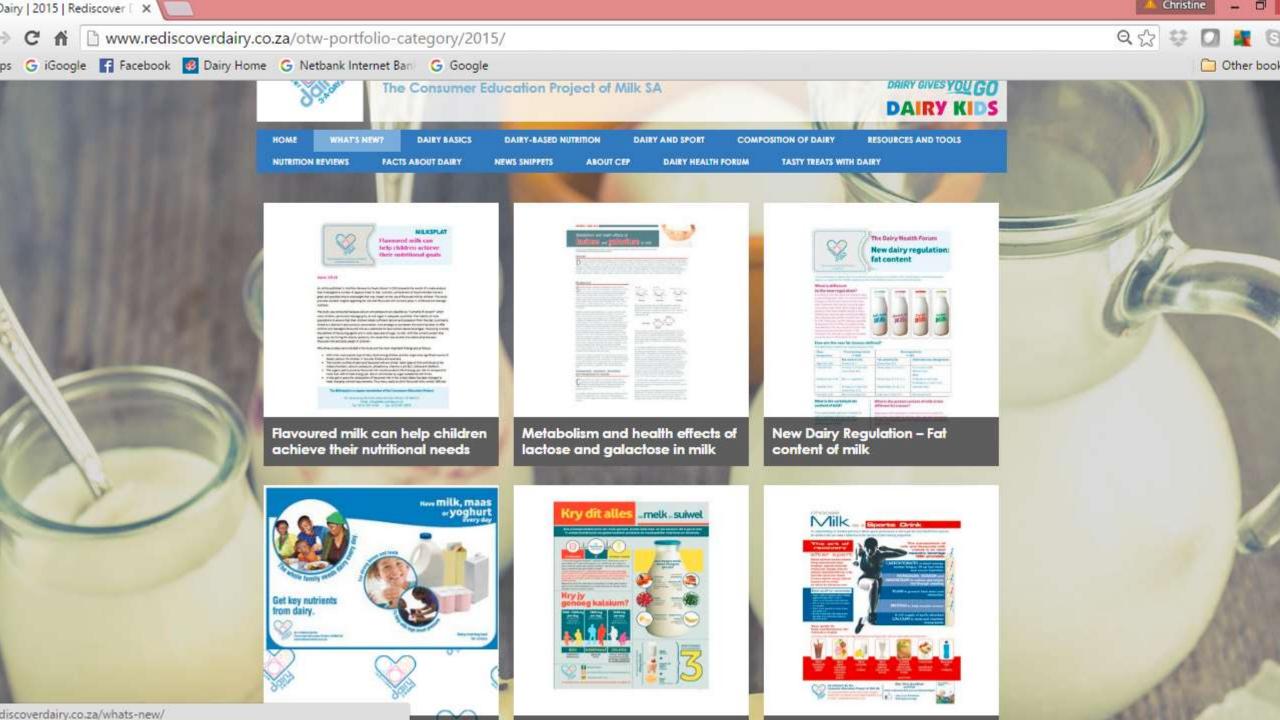
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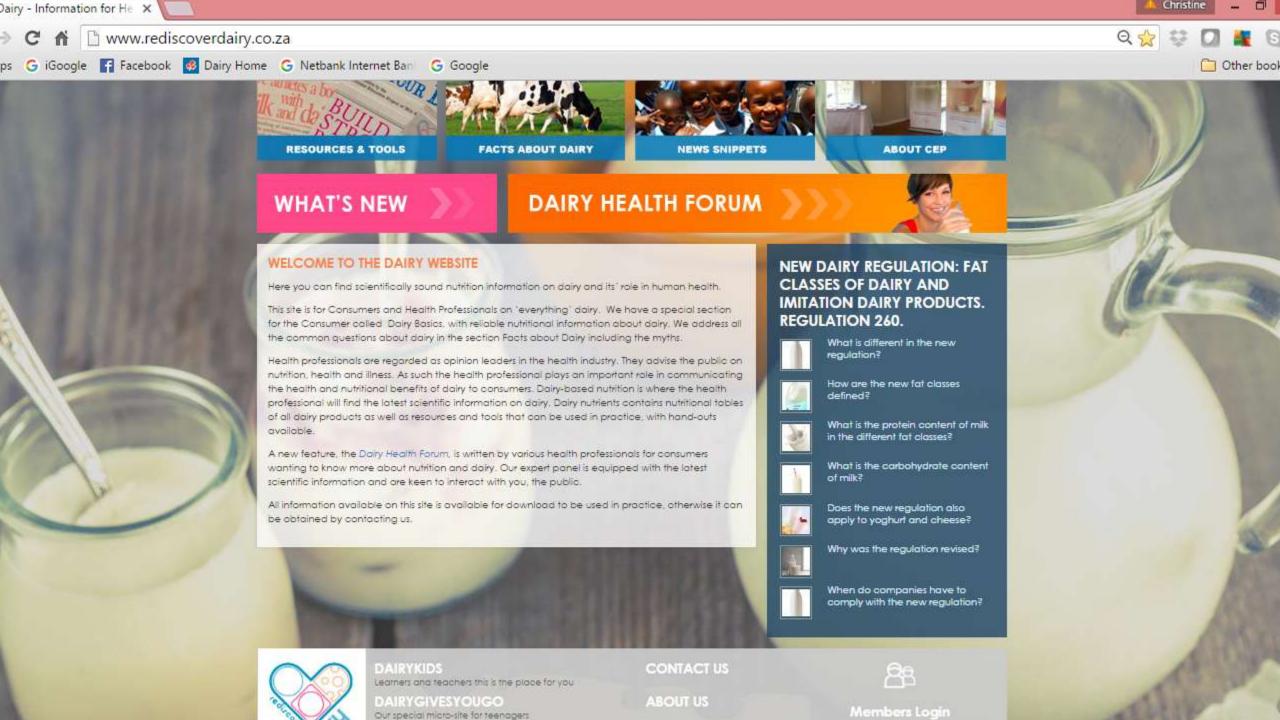
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Health Professional print Metabolism and health effects of lactose and galactose

lactose and galactose in milk



Colone & William P.D. M. Stagerson, Pulmanne, Registrate Martine and Colonian, Streenlife of the Free State, Sport Associate Statement Fall St. Streenlife Statement S

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Assertly, a francisc study (Watershoot et d., 1014) house that a high prompt and it posture valual all two, and self-region backets building it access, based on an entired study (for it &, 1856), the earliests agenturals that galacteria derivant from Aprilian in mills may testion assignive stress, almost inflammation, a decreased framula improves and contigentation, that contributing to the toti of nativity and fraction. Street, the extract caption had the provided at received scribbonities per morale consider corner for garrier patrior why seen power that has but interpreted my face computed more triff from decreaefficar extragorants; and experts sections, blumprostum of the result. Michaellanor et al., 2014, Europeanium published in expense to the shall have provinced a number of bases, mobality that his multinaries restile det sid salicer he minesperiers ar form missind divinity Culture and Stourts, 2014), Olise in Minters mid-had high boars are oblinations done true basis intensibed on both fractions had next all resons mortality PAR STON, Survive SMON Also engages in the two suctions substances. and a risk production at the true first solvants were excluded ting time imparied as his excitable specified it his struk.

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Composition, digestion, absorption and metabolism of lactore

Abdulation out profit is seemed, before, the of Gentler and the degree of absorption Saltoning passage salisten Would in Iran Spirit, but righter British 1985 div and

The product cortonolists and tax for formula CHITCS where a can be any uneque from 3 to 7, (34), time inprocessorable in Response - glucies, patienting and frustme - can be atturbed by



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To and alignuproherable has it in he had adopted at the name of alligations into the bloodsmann-being to the abbette of terragenties or comply their action resistance. The leas continue before of factors paints and larke office to combineration by the testinand prices in profiler 1 of the glaces meets in access ediction, daily and data beautions and to Specification with approximately 22% of the backup in the body form at more designation. Proximal alternation of factors requires it to be So municipated economical departments, which has a special beer representative being any absorbed and actively transported from the prenting break trip the black for the surface-dependent sensor because the \$10.71. As the curve colleges, the righted hydrogenparties on trapition and other fragiones or fragmentum who having

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Metabolism and health effects of lactose



Lactoox Intolerance

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Price who consider from these before treatment may become that dainy make, reading a composition trade of the nations and other benefits composed in term. West people who are believe students can be used talkening medic pushed strategies."

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- tion body out at had mean, attendible pigtur and ferrome products not no informal comes formed before and on to same willing coming participating discounts. Time leads are becomed in balic and ballers, which convert some of the balloon in balls and during
- publish. You will have every health benefit, over daily substitute bush
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bosettlig avidence combines that Sections, which is naturally present in mile and dany products, is coding to be determined to health and should thus set be

An Initiative by the Consumer Education Project of Milk SA

For more information exact, infinifying the proceedings are also as with our vertice of several additional and also also also are also as a second and a second additional and a second and

"hare is extensive evidence that maderate duly. consumption of dairy, as part of a balanced dier, to beselved to health, Dairy books are excellent sources of the nutrients rubours, vitamin 2 (in furtilist products)*, magnesium, potentium, protein and estatobides.

The carbahydrate laction, to of key importance in life as It is the main source of energy from milk, bills from different animals vary in its factors concentration, with human milk faving the highest lattere content while cow's mile contains a runable lower concentration.

Effects of factore as a prebiotic

The recent emphasis are the learner relamination has become attention as the polarital ridle of polarities and polarities in promoting furnise health. listia are non-liquid the compounds that all makes the greath and prints of basines in the dipoline setters' Cariner and digespectanties in tilk are considered to be disserted regardness. For this crisis is healthy coins biols, making to floor laftingscop offscots."

in partiette with Sellage transparentations, Sellage to test Tally Algorithm and that property to the color when if has a promote offset. In Section property persons, two factors off to expected in the world execution #Trough some may mart the large intention discording to timents." He solders manufacts by bridges and between \$400000, predicting recordings soft as marketain laty with corrupt annua, progression and belonder. But provide a source of energy to the marketain and collections. This of due to dissolted this the partid criticalities and transported to the line. where they may have beneficial systems; others; its controller, stary protestics and protestics may different gat extendicials in such a way free leade sentinte and the arter of glossper-the posts (4) Pri) on postering allerted have of \$1 support the behave the orthose the production of phonelisms lefts units and other argums units that provides the growth of facts and bacters and exhaust the absorption of nations.





Ctose: friend or foe?

Dosoble adverse effects of galactone as found in milk have led to some doubt about the perendly accepted beneficial health effects of dairy. However, studies suppost that before and its metabolites such as palacitons are essential to human \$fe, rather than being detrimental to health."

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- induced from part of physicists and physicisms in the best and
- the contract of the contract of the second section of the contract of the cont
- the painting is delivered to be people and collection.

I digitize he had shore is her forgotti provid.

Solve palation is released from surigine carbonyliness fraugh outdoor by silkney and parametric amplicat, and from busine by the gitter of lattest to the break barrier of the small intention. Stem attached, terary palartine can be converted in the first to office office alphaspines glates (IEF-glates) for the production of glorages or glates in bate for the release of energy, elementarily, if can be executed to EP-patentee and to derivative, which note as less colonials about he the boosynthesis of glacoproteins and glacebook."

- Exceptial secons of energy

to pilation it a presente to planto protestion. It is an essential source of armigs, The is particularly transfer during the safe developmental stages of improvables interes, when they are exclaimely dependent on milk."

- Structural role

Salactore has different functional and attentional right from placesses, Sport from its impertance for energy production, the Laker motability palmets in musel for the glacosphilate of complex malarates such as model stream around senses, it what galactes who are in the predictional plantases. adjustment in this relative of the referred to us "briefy eager" in the terms pointy to is all in apporting train structure and struckers and divide the installed parties and suffy By (4), Education also correct as a palatries for continuation, gardenines and reasonresses in the beam and services spillers, affect beats further support to the record and immunicipal risk."

- Therapeutic role of galactons

Substrees has recently been expected to be bandered in the management of a number of discount, participally tissue affecting boas function." The converges of palactors in arrive with in the least requiring presents reprinting to relation. The paints to the parterful use of plantau for sensoring floor mannions companied from the loads or patients coffering han topple exceptibilizably or flatetour's dozeni." Streetly at use of sporadic Allformor's discour is accompled with doclaration of the barginreceptor system. Inflorest to decreased phone transport to and subsequent managed in it than orth, All patentials is transported to the best by an usualism respected 10,075 transporter, it can all as all differential support etergy energy to be mendeally to glavour up the Laket patterns." Duly and adjusted administration has also been shown to be a promoting new resizes flerigg for the beginned of somight replicate specificits."

- Calactone se a probiotic

balance a proof is to re-alter refront-tank eligencourses (10); and plactors obposentation (200). These evolute objects before the last two process installed offices to the particularitied that of nurses not only by introducing preats of selected morntons of the introduced months for the Rough that artisationin article

etters paragres drack in the on alle to act as abusined rotting of he participes strating class that year the earthers of garmermenting earthwise



Edicinia is del derival odi; from betweenestigning that season, final ners, with a high pulselines content is little regrittle at reducts was finer, drad bill, coar's hill, pophurt and begunde built adjusters present to december etemperhet that the human body is all in synthesise pallertons do note

Enterprise plantes projection is hard to be higher in others and mong children. When platted against ago, the obs-of-galleton projection per long. ange tillion i total periori terdipetand prott toro, Tis e-etime. En suggestel transpor of plinters to selly brokernot,"

Enzyme deficiencies

The horse back is alle to motabalise palestons efficiently, free palestons in tain of other minimizer will plantomerus, a congested disorder that makes a collectory in one of the tree metabolising sengmen in the collect pathway," followagency is a seriesy consistent particularly spring the numbed parted, and officin a number of larger systems, indicating the Box pda touarn's, lang-term complications such as capetine and brilling requirements parties. This conferes the critical structural and functional robo of palestone in the human bads."

Ediction is provid in human metabolism, with an established rate in energy anthers and galactosylatio of complex metabolism, theires continue that because and its invalidation text as galactose are unlikely to performed to health, or text, presented therepeonle on of galactose has been obsess.



An Indicative by the Consumer Education Project of MISK SA.

To more information extend influid rediscoveredainty on the 22 vist our vertility of where publicative entitles are

LEAFLETS











Be an Ambassador for **Dairy**



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