3rd September 2010 Lyme and Tick Borne Diseases Conference

Probiotics not just acidophilus

OptiBac robiotics

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Agenda

What are probiotics & prebiotics? Why strain selection is critical **OptiBac / Institut Rosell quality** The OptiBac Probiotics range

- For those on antibiotics
- For daily wellbeing
- For daily wellbeing EXTRA

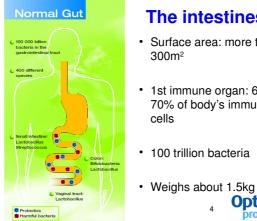
Q&A / FAQs etc.



What are Probiotics

'Live microorganisms which when administered in adequate amounts confer a health benefit on the host' (WHO, 2001)





The intestines

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- Surface area: more than
- 1st immune organ: 60 to 70% of body's immune
- 100 trillion bacteria
 - OptiBac robiotics

A healthy gut is key to a healthy body

Benefits of Probiotics

Healthy Digestion Strong Immune System Improved Energy Levels

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The balance is very fragile

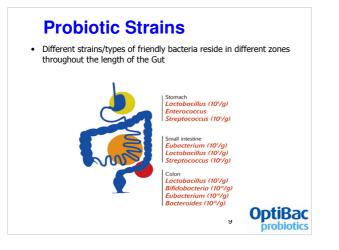
This balance is easily offset by factors such as:

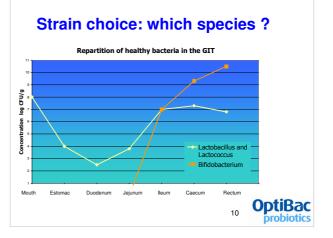
- Stress
- Ageing
- Medication (e.g. antibiotics & contraceptive pill)
- Additives and preservatives in our food
- High sugar levels
- Travelling abroad

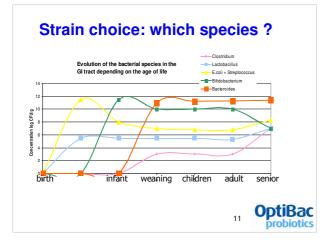


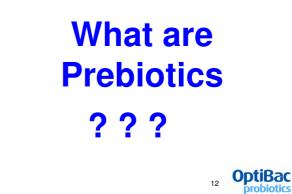


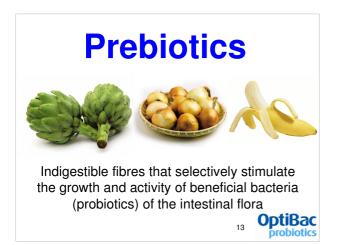












Safety

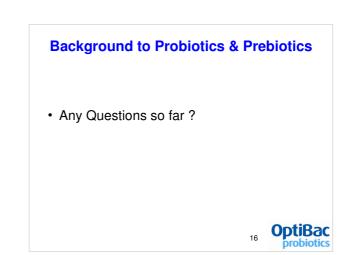
It is not recommended to give probiotics to:

Severely immunosuppressed patients
Post cardiac surgery patients
Patients with pancreatitis
Patients with Type 1 diabetes

• Patients with blood in the stool

• Patients in ICU

Selectively feed Bifdobacteria: called the 'bifdogenic effect' Before Define De



Probiotics & lyme disease

- No direct studies currently published
- · Important during & after antibiotic use
- Aims a) Prevent thrush & diarrhoea etc.
 b) Boost immunity
- As Borrelia burgdorferi can remain latent, having a strong immune system is critical



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probiotics

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Probiotics & Immunity

- 1. Create a 'barrier effect'
- 2. Produce antimicrobials such as lactic acid
- 3. Compete for available nutrients & space (competitive exclusion)
- 4. Improve the non-specific innate immune response
- 5. Boost the acquired immune response (vaccine principle)



Quality Probiotics



Undertake In vitro tests to prove specific strains...

- Survive gastric acidity (at varying pH levels & at 37 degrees Celsius to mimic the stomach)

- Survive bile salts
- Adhere to the intestinal wall lining e.g. epilethial cells
- Inhibit specific pathogens from binding
- Stimulate innate & adaptive immune response
- Have targeted actions & benefits for the host



For those on antibiotics good bacteria A'Biotic Constipation • RRP: £5.49

Antibiotics kill both bad and

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- Prevent Thrush, Diarrhoea,
- 10 day course typical antibiotic course is 5 to 7 days

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OptiBac probiotics

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robiotics

Stats about Antibiotic Associated Diarrhoea (AAD)

Frequency of AAD: 10 to 30%

Higher frequency with new generation of antibiotics

Antibiotic	AAD(*)	One day diarrhea
Penicillin G and V	3%	8%
Penicillin A and M	11%	21%
Amoxicillin + B-lact Inhibitor	23 %	43%
Cephalosporin	9%	17%
Macrolides	8%	15%
Trimethoprime + Sulfamethoxazol	6%	25%
Erythromycine + Sulfafurazol	16%	24%



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Preliminary studies on FTOA

1) 20 children were with bronchitis or pneumonia were administered L. acidophilus Rosell-52 and L. rhamnosus Rosell- 11 with antibiotics.

No intestinal complaints were noted, including no record of AAD (FTOA Technical Dossier)



Preliminary studies on FTOA

2) 15 children suffering from dysbacteriosis and diarrhoea following an antibiotic course were given L. acidophilus Rosell-52 and L. rhamnosus Rosell- 11.

Clinical symptoms were alleviated, consistency of stool improved and their number decreased. (FTOA Technical Dossier)







Frequently Asked Questions:

- . Do "healthy" people need to take probiotics?
- How long does it take to feel the effects of taking probiotics?
- . What is the recommended dosage of probiotics?
- . Do probiotics have any side effects and are there people who should not take probiotics?
- Are there any risks attached to taking too many probiotics?
- . Can probiotics be taken by infants / during pregnancy?
- . Is it better to take probiotics on an empty stomach or with meals?
- . Are probiotics good for lactose intolerance?
- . What factors are probiotics sensitive to?
- . How should probiotics be stored?



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