

PROBIOTICS

In **oncology** care



SCAN FOR WEBSITE

“Supporting cancer warriors from within”

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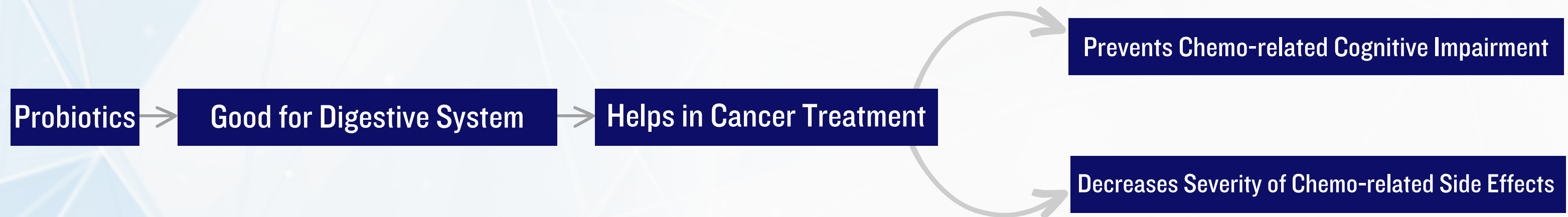
Clinical Trials of 'Restore-GH'

MOCKUP - 'Restore-GH'

Product Specification - 'Restore-GH'

Introduction to Probiotics and Their Importance for Cancer Patients

- Probiotics are live bacteria and yeasts that are good for your health, especially your digestive system.
- They are often called "good" or "friendly" bacteria because they help keep your gut healthy.
- For cancer patients, probiotics may help prevent chemo-related cognitive impairment and decrease the severity of chemo-related side effects



The Need for Probiotics in a Cancer Treatment Plan

Probiotics

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graph LR; A[Probiotics] --> B[Boosts Immune System]; A --> C[Manages Side Effects]; A --> D[Improves Overall Health];
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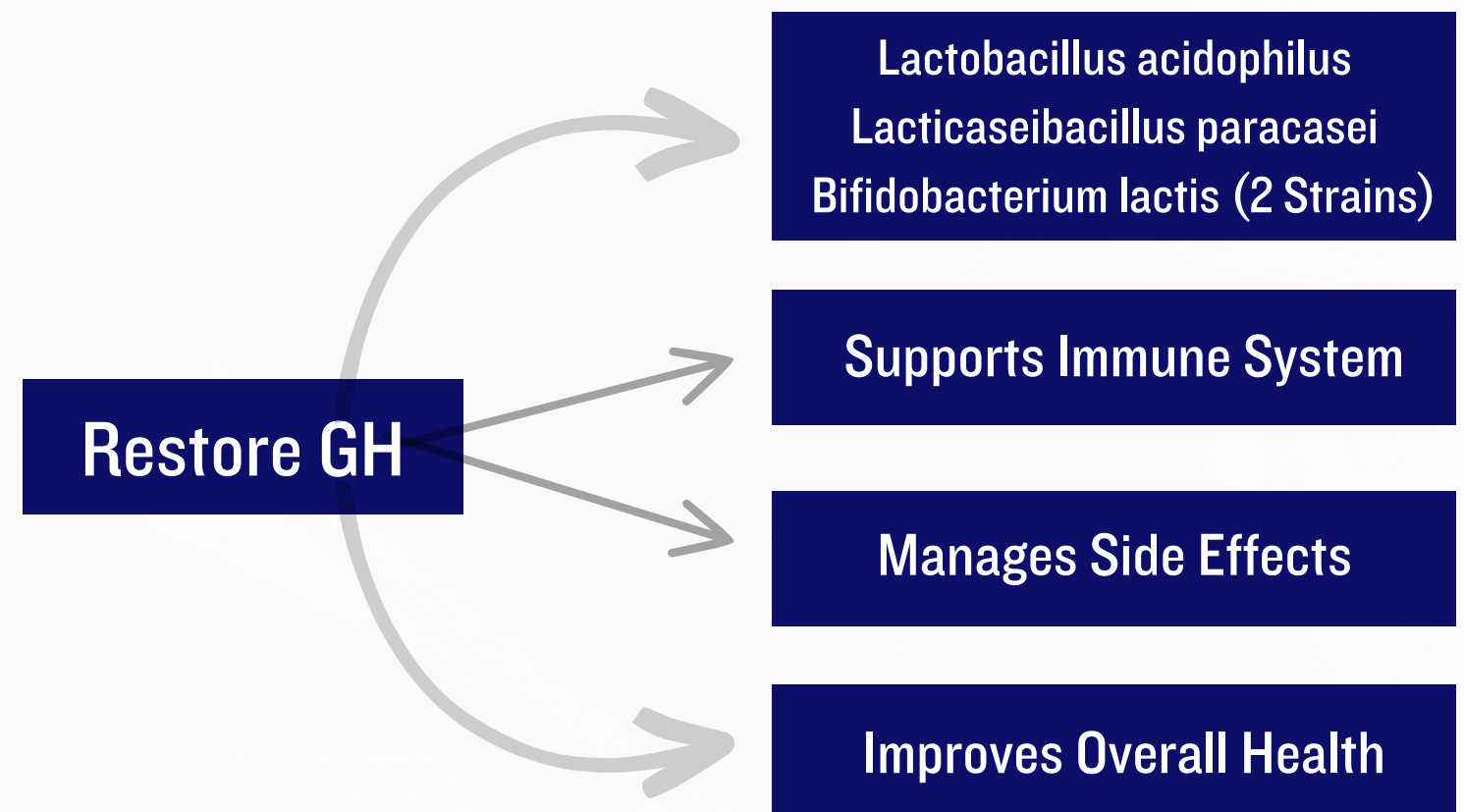
Boosts Immune System

Manages Side Effects

Improves Overall Health

Introducing 'Restore': A New Probiotic Solution for Cancer Patients

- 'Restore' is a specially formulated probiotic solution designed for cancer patients.
- It contains strains such as *Lactobacillus acidophilus*, *Lacticaseibacillus paracasei*, *Bifidobacterium lactis* (2 Strains) that have been reported to influence hematological cancers, enhancing TNF-induced apoptosis in cancer cells.
- 'Restore' aims to support the immune system, manage side effects, and improve the overall health of cancer patients.



Understanding Probiotics: Daily Dose and Composition

Our product provides a daily dose of **17 billion** colony forming units (**CFUs**). This is the measure of viable bacterial or fungal numbers.

The composition of our probiotics is carefully selected to provide the most benefits. It includes:

- ***Lactobacillus acidophilus (HOWARU NCFM)***: This strain is most commonly used in probiotics and can be found naturally in the human body. It's known for its ability to break down lactose into lactic acid, hence promoting a healthy digestive system.
- ***Lacticaseibacillus paracasei (HOWARU Lpc-37)***: This strain is known for its ability to survive in various environmental conditions, making it a potent probiotic. It can help with digestion and boost the immune system.
- ***Bifidobacterium lactis (HOWARU Bi-07) + B. lactis (HOWARU BI-04)***: These strains are known for their ability to stimulate the body's immune response and aid in dietary fiber breakdown.

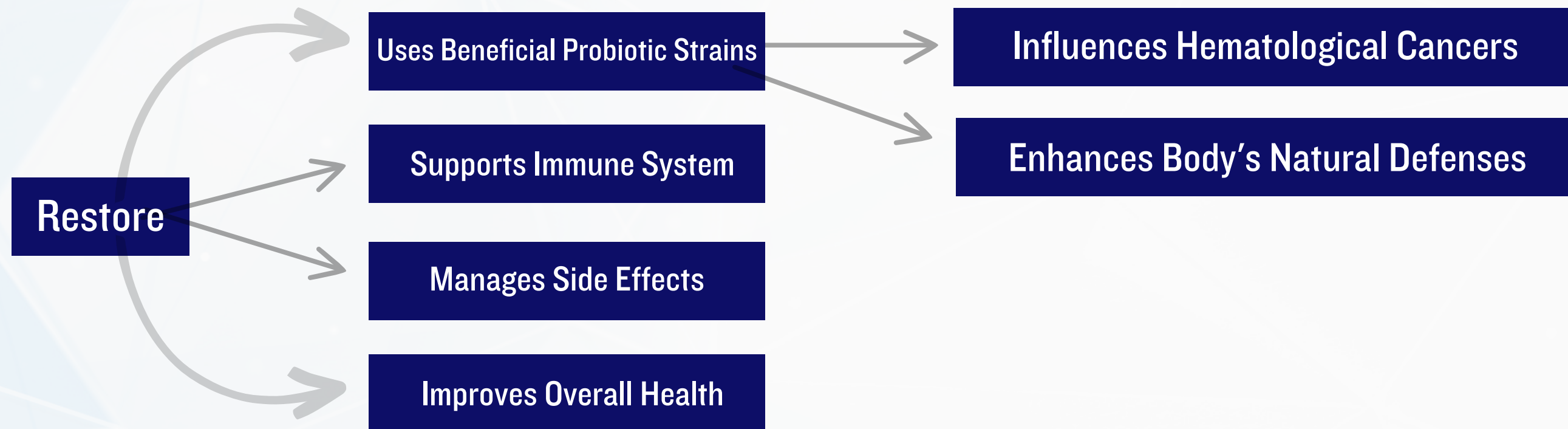
WHY I7B ? - I7B Benefits

- - Fosters gut well-being
- - Speeds up recovery from diarrhea
- - Reduces the duration of gut disturbances
- - Enhances digestive equilibrium
- - Encourages regularity during gastrointestinal challenges
- - Sustains comfort during GI stress
- - Rapidly revitalizes gut health and overall comfort
- - Combats diarrhea and bloating
- - Maintains gut stability during times of GI stress or dysbiosis
- - Alleviates GI stress-induced diarrhea
- - Boosts resilience in the digestive tract during GI stress
- - Reinforces with beneficial bacteria during dysbiosis or GI stress
- - Bolsters immune and respiratory health with the BI-04 strain

Lactobacillus acidophilus

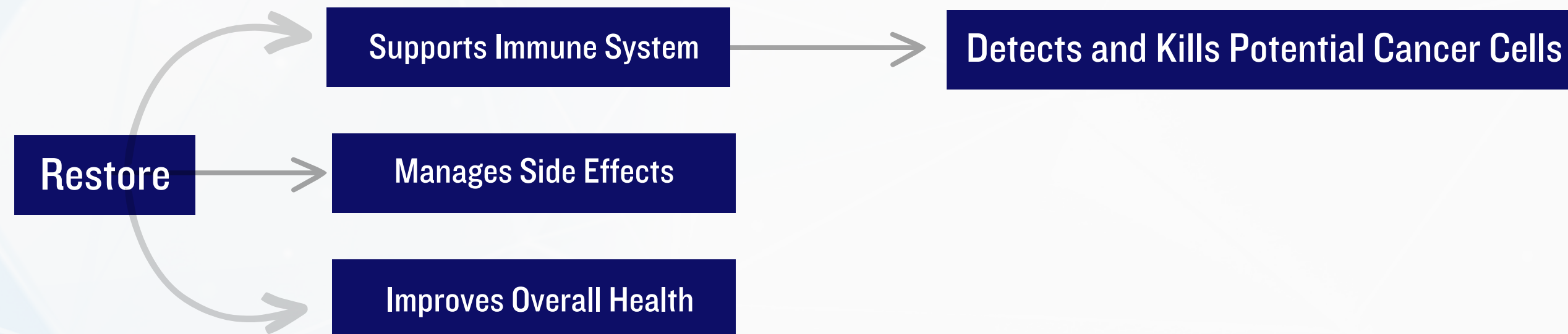
How 'Restore' Works: The Science Behind the Product

- The science behind 'Restore' involves the use of probiotic strains that have been shown to have a positive impact on cancer patients.
- These strains can influence hematological cancers and enhance the body's natural defenses against cancer cells.
- 'Restore' works by supporting the immune system, managing side effects, and improving the overall health of cancer patients.



Benefits of 'Restore' for Health and Cancer Management

- 'Restore' offers numerous benefits for health and cancer management.
- It supports the immune system, helping it to function at its best and detect and kill cells that can become cancer.
- 'Restore' also manages side effects of cancer treatment, helping patients to maintain their quality of life during treatment.
- Furthermore, 'Restore' improves the overall health of cancer patients, contributing to their wellbeing and recovery.





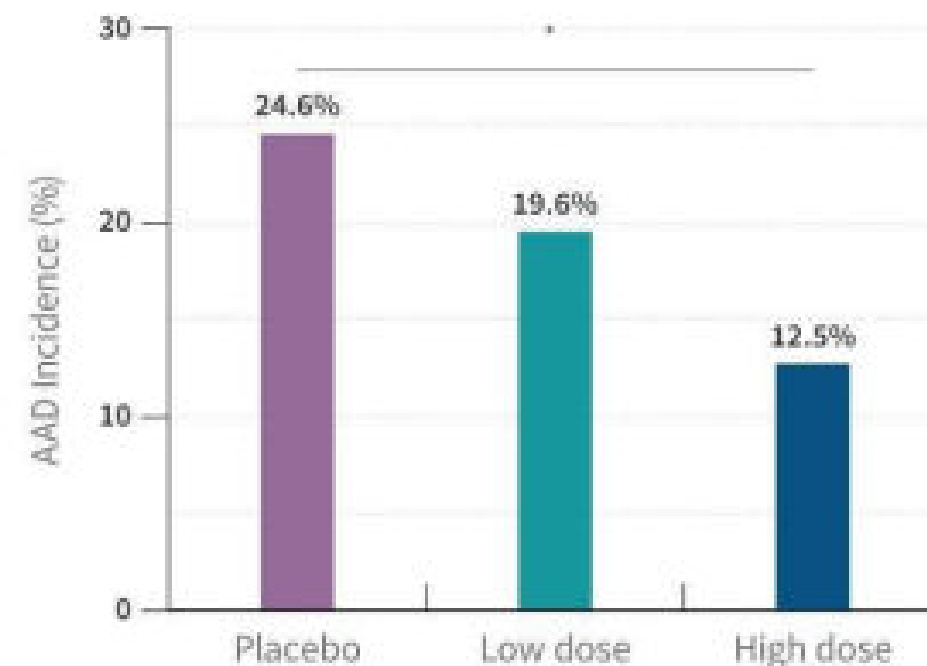
Restore- Clinical Trial Results Supports fewer days of gut disruption

L. acidophilus (HOWARU NCFM™) + *L. paracasei* (HOWARU Lpc-37™)
+ *B. lactis* (HOWARU Bi-07™) + *B. lactis* (HOWARU Bi-04™)

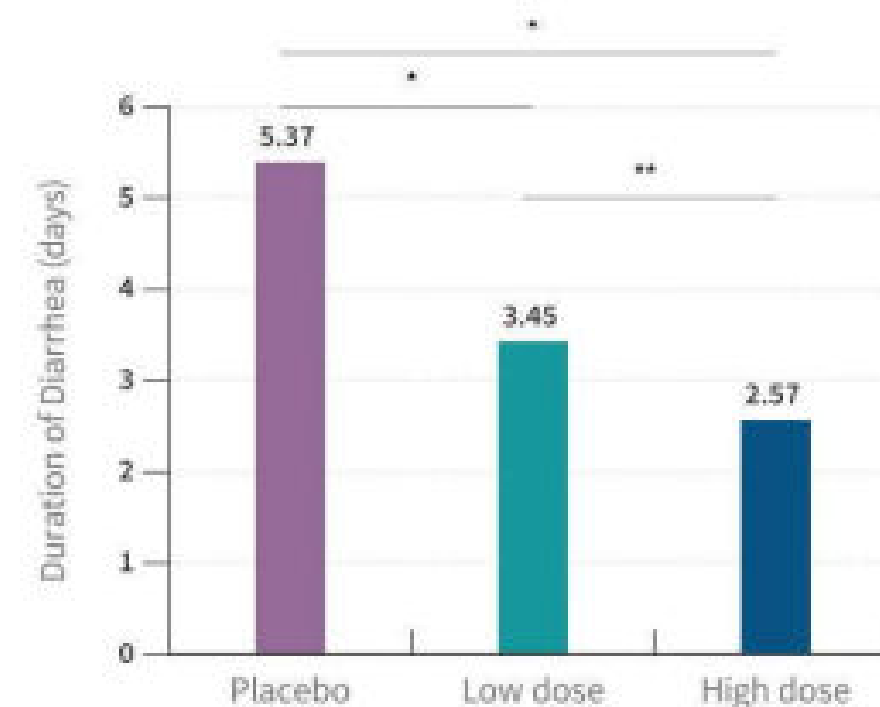
Key Findings:

- The incidence of AAD in the high-dose HOWARU® Restore group was approximately half that of subjects in the placebo group ($p=0.005$)
- The duration of diarrhea was significantly reduced in both the low and high dose probiotic groups by approximately 2 to 3 days compared to placebo ($p<0.001$)

AAD Incidence



AAD Duration



* $p<0.001$, ** $p=0.03$



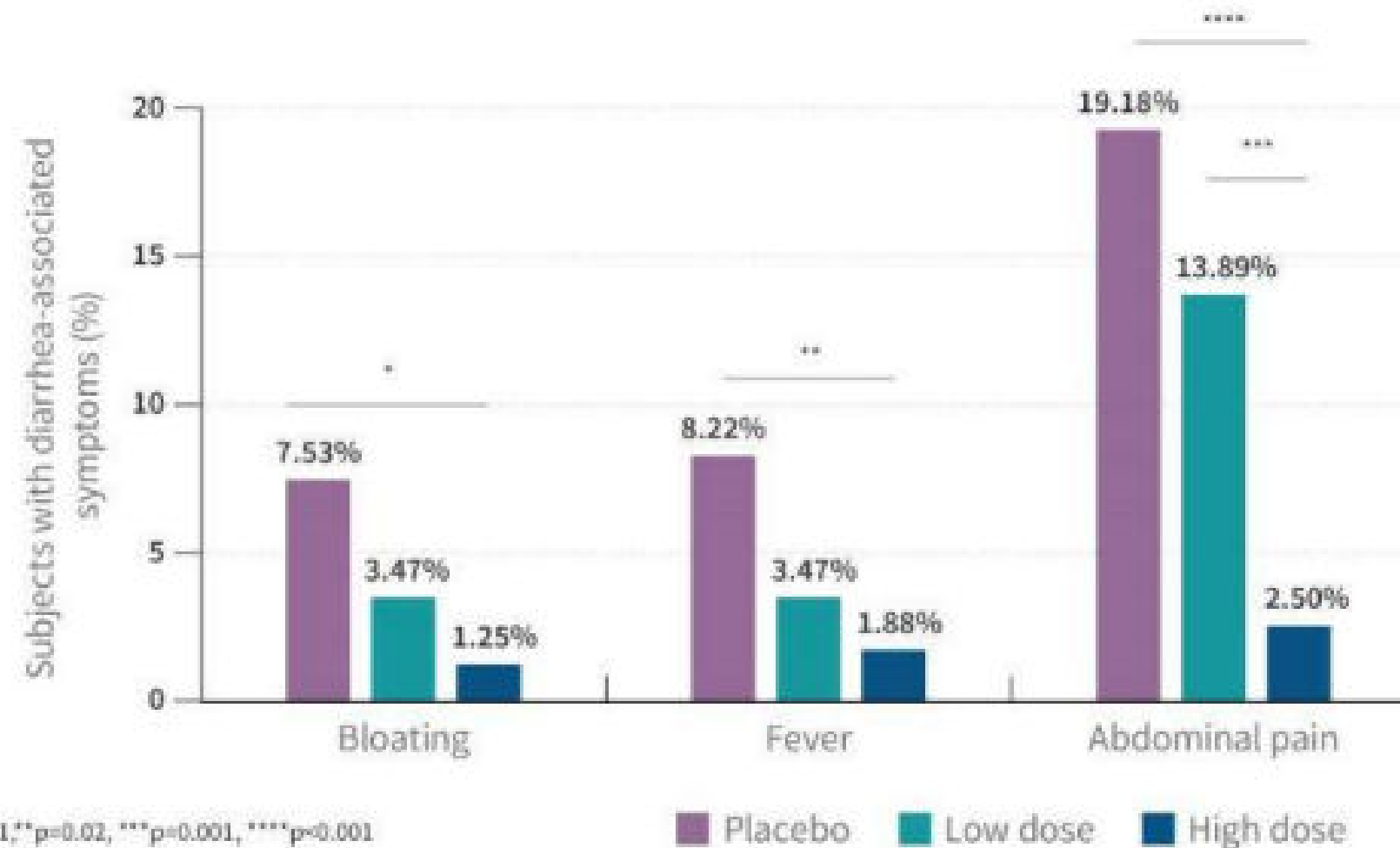
Restore- Clinical Trial Results

Promotes restoration of gut health

Key Findings:

- Compared to placebo, HOWARU® Restore high dose supplementation resulted in significantly less
 - bloating (p=0.01)
 - fever (p=0.02)
 - abdominal pain (p<0.001)
- All 3 symptoms showed a significant linear trend across groups and a high likelihood of a dose response.

Incidence of diarrhea-associated symptoms



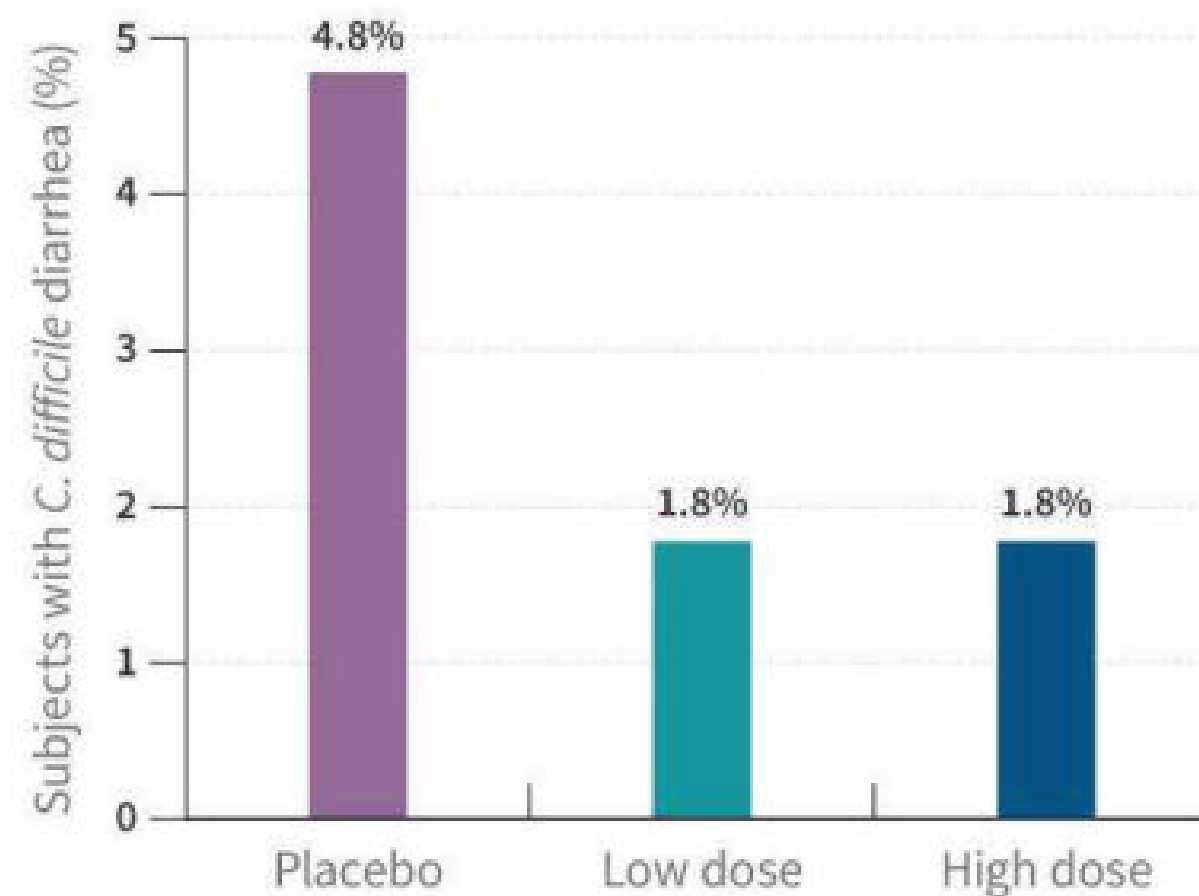


Restore- Clinical Trial Results

Supports bacterial balance

Key Findings:

- Subjects taking the high dose of HOWARU® Restore had a significantly reduced incidence of CDAD (p=0.02)



Ouwehand et al. 2014

*p=0.02

Even though the percentage of subjects with *C. diff* was the same between the low and high dose, only the high dose reached significance based on the statistical analysis



Restore- Clinical Trial Results

Promotes restoration of gut health

Key Findings:

- The median duration of diarrhea was one day shorter in the probiotic group than in the placebo group (p=0.039).
- Total diarrhea days and rate of diarrhea also were significantly better for participants treated with probiotics compared to placebo.
- There was no significant difference in *C. difficile* recurrence

Variable	Placebo, N = 15	Probiotics, N = 16	P
Duration of diarrhea (cumulative days), median (IQR)	1.0 (0.00 - 13.0)	0.0 (0.0 - 2.0)	0.039
Diarrhoea rate (days of diarrhoea/stool diary days submitted), median (IQR)	0.3 (0.1 - 0.5)	0.1 (0.0 - 0.2)	0.009
Total number of days with diarrhea (days), median (IQR)	12.0 (6.0 - 25.0)	3.5 (1.0 - 8.0)	0.005
Stool diary number of days, median (IQR)	55.0 (38.0 - 56.0)	57.0 (37.0 - 59.0)	0.55
CDI recurrence ¹ , n (%)			0.96
0	12 (92)	14 (93)	
1	1 (8)	1 (7)	

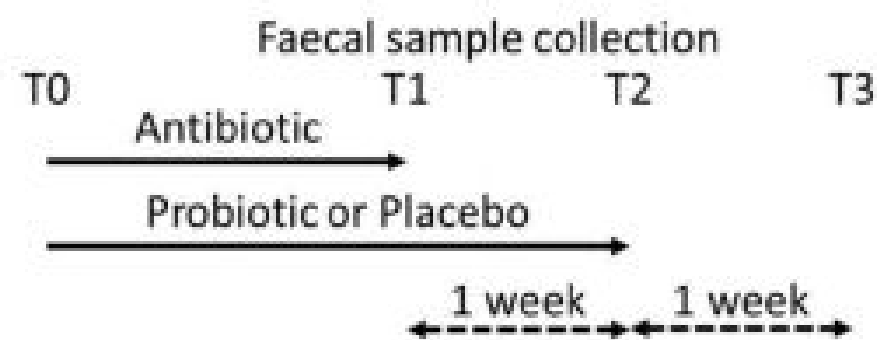


Restore- Clinical Trial Results

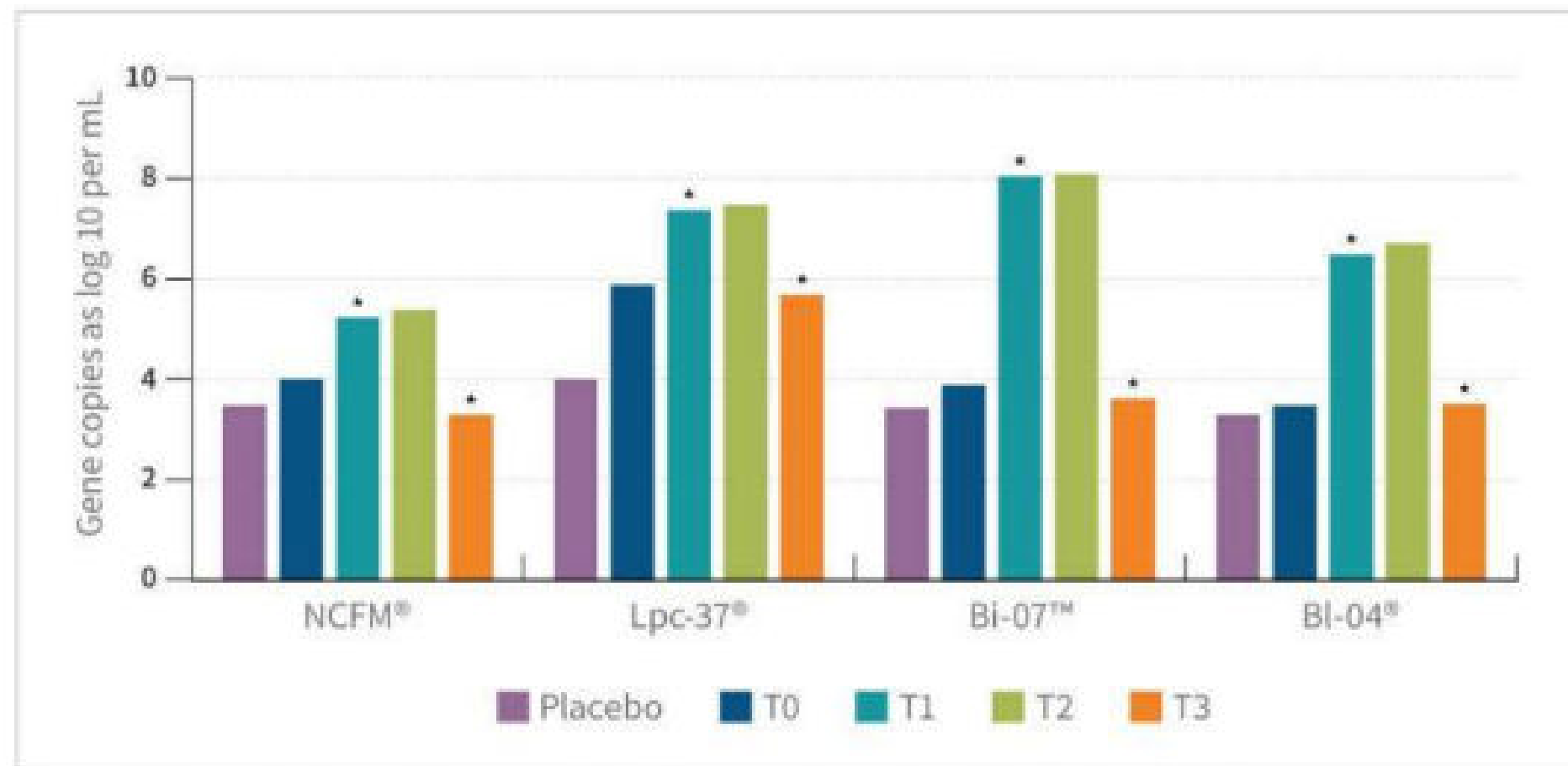
Recovery of strains during antibiotic use

Key Findings:

- All four HOWARU® Restore strains significantly increased while concurrently taking antibiotics



Strain recovery in persons consuming probiotic and antibiotic 2h apart



*Indicates significant change from previous timepoint (p<0.03 T1 compared to baseline; p<0.001 T3 compared to T2).

RESTORE-GH



Packaging: 1gm x 10 Sachets

Benefits: Restore gut flora

Flavor: Plain (or) Orange/Vanilla

Dosage: 1 Sachet per day

Shelf Life: 18 months

Storage: Room Temperature

OUR SERVICES



CONTRACT
MANUFACTURING



CONTRACT
RESEARCH & DEVELOPMENT



PRIVATE LABEL



CUSTOM BLENDS

CLIENTS WHO TRUST US!



GROWTH PARTNERS



Redefining Probiotics through Science & Innovation

OUR GLOBAL FOOTPRINT



Reefini

Sci



CONTACT US!


MANUFACTURING UNIT


ELMED Life Sciences Pvt. Ltd. Plot No 36/C, Phase-V, IDA Cherlapally, Hyderabad, Telangana, India - 500051



CORPORATE OFFICE

ELMED Life Sciences Pvt. Ltd, 36 Pinnacle, 104, First Floor, Road No - 36, Jawahar Colony, Jubilee Hills Check Post, Hyderabad India - 500033

EMAIL & PHONE

 info@elmedlifesciences.com

 040-29568336

  +91 9281443762

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www.elmedprobiotics.com

