Efficacy of Consuming LcS In Spinal cord injury Patients (ECLISP)

Submission date	Recruitment status No longer recruiting	Prospectively registered		
08/01/2015		□ Protocol		
Registration date 12/01/2015	Overall study status Completed	Statistical analysis plan		
		[X] Results		
Last Edited	Condition category	Individual participant data		
25/03/2024	Infections and Infestations			

Plain English summary of protocol

Background and study aims

Probiotics, defined as 'live microorganisms which, when administered in adequate amounts, confer a health benefit on the host', have been proposed to help maintain a healthy gut microbiota in hospitalised patients on antibiotic therapy, particularly those on broad spectrum antibiotics. It is hypothesised that maintenance of a healthy commensal microbiota during antibiotic treatment by taking a probiotic every day will significantly reduce the occurrence of antibiotic associated diarrhoea (AAD) and Clostridium difficile associated diarrhoea (CDAD), improving the quality of life in spinal cord injury patients over time. A previous trial in patients with spinal cord injuries (SCI) suggests that probiotics can prevent antibiotic associated diarrhoea (AAD). A number of studies have reported that Yakult (Lactobacillus casei Shirota) can help reduce antibiotic-associated diarrhoea. However, in order to confirm these effects find out how well Lactobacillus casei Shirota (LcS) works in these patients, a larger study including different geographical locations should be carried out.

Who can participate?

Adults (aged at least 18), likely to remain at the Spinal Cord Injury Centre (SCIC) for more than 6 weeks and have been taking antibiotics for at least 3 days.

What does the study involve?

Participants are randomly allocated into one of two groups. Those in group 1 are given one bottle of Yakult containing 6.5x10/9 Lactobacillus casei Shirota once a day during the course of antibiotics and for 7 days after the course finishes. Those in group 2 are given a placebo. All participants are monitored for occurance of AAD and CDAD. Gastrointestinal microbiota are also measured and also an assessment of quality of life.

What are the possible benefits and risks of participating? Not provided at time of registration

Where is the study run from? Stoke Mandeville Hospital (UK) When is the study starting and how long is it expected to run for? November 2014 to October 2017

Who is funding the study? Yakult Honsha Co., Ltd

Who is the main contact? Mr Edmund Chiu

Contact information

Type(s)

Scientific

Contact name

Mr Edmund Chiu

Contact details

Stoke Mandeville Hospital National Spinal Injury Centre Mandeville Road Aylesbury United Kingdom HP21 8AL

Additional identifiers

Protocol serial number

17618

Study information

Scientific Title

Effect of Lactobacillus casei Shirota in preventing antibiotic associated diarrhoea (AAD) including Clostridium difficile associated diarrhoea (CDAD) in patients with spinal cord injuries: a multicentre, randomised, double-blind, placebo-controlled trial

Acronym

ECLISP

Study objectives

It is hypothesised that maintenance of a healthy commensal microbiota during antibiotic treatment by administration of a daily probiotic (Lactobacillus casei Shirota, as Yakult) will significantly reduce the occurrence of AAD and CDAD, and thus improve quality of life in spinal cord injury patients over time in comparison to the placebo control.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Oxford REC, 25/09/2014, 14/SC/1101

Study design

Randomised; Interventional; Design type: Treatment

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Antibiotic associated/Clostridium difficile diarrhoea

Interventions

Lactobacillus casei Shirota. One bottle of Yakult containing 6.5x10/9 Lactobacillus casei Shirota once a day during the course of antibiotics and for 7 days after the course finishes.

Intervention Type

Supplement

Primary outcome(s)

Occurrence of antibiotic-associated dairrhoea: Timepoint(s): 30 days

Key secondary outcome(s))

Analyse the effect of LcS on:

- 1. Occurrence of C. difficile diarrhoea
- 2. Duration of diarrhoea
- 3. Gastrointestinal microbiota
- 4. Quality of life

Measured 30 days after finishing probiotic/placebo.

Completion date

31/10/2017

Eligibility

Key inclusion criteria

- 1. Adult (≥18 years)
- 2. Patient is likely to remain in the Spinal Cord Injury Centre (SCIC) for more than 6 weeks can be included
- 3. Newly started antibiotics (for a minimum of 3 days) (single or multiple)

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Total final enrolment

359

Key exclusion criteria

- 1. Re-recruit patient (1st recruitment only)
- 2. Antibiotics for prophylaxis use
- 3. Diarrhoea prior to recruitment
- 4. Bowel pathology that could result in diarrhoea
- 5. Recent bowel surgery
- 6. Infective endocarditis
- 7. Active inflammatory bowel disease
- 8. Pancreatitis
- 9. Regular probiotic use
- 10. Antibiotic use in the 30 days prior to the study product first administration
- 11. Severe illness
- 12. Immunosuppression
- 13. Nil-by-mouth status for any reason
- 14. Nonfunctioning gut
- 15. Known cows milk protein intolerance
- 16. Psychiatric or cognitive conditions that may interfere with the study
- 17. Patients incapable of providing informed consent
- 18. Patients unlikely to comply with study requirements
- 19. Pregnant or breastfeeding women
- 20. Prisoners

Date of first enrolment

12/11/2014

Date of final enrolment

31/10/2017

Locations

Countries of recruitment

United Kingdom

England

Study participating centre

Stoke Mandeville Hospital

National Spinal Injury Centre Mandeville Road Aylesbury United Kingdom HP21 8AL

Sponsor information

Organisation

Buckinghamshire Healthcare NHS Trust

ROR

https://ror.org/037f2xv36

Funder(s)

Funder type

Industry

Funder Name

Yakult Honsha Co., Ltd

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	11/09/2021	21/09/2021	Yes	No
Results article		22/03/2024	25/03/2024	Yes	No
HRA research summary			26/07/2023		No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes