

# LcS Topic: Liver Disease

*Lactobacillus casei* Shirota (LcS) is the unique probiotic strain in Yakult

For further information visit our website: [www.yakult.co.uk/hcp](http://www.yakult.co.uk/hcp)  
 Contact the UK science team on [science@yakult.co.uk](mailto:science@yakult.co.uk) or 0208 8427 600.  
 Contact the Irish science team on [science@yakult.ie](mailto:science@yakult.ie) or 01 804 7695

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## General

***Lactobacillus casei* Shirota protects against non-alcoholic steatohepatitis development in a rat model.**

Okubo H, Sakoda H, Kushiyama A *et al* (2013). *American Journal of Physiology, Gastrointestinal & Liver Physiology* **305(12)**:9911-9918.

[PubMed]

**Probiotics promote rapid-turnover protein production by restoring gut flora in patients with alcoholic liver cirrhosis.**

Koga H, Tamiya Y, Mitsuyama K *et al* (2012) *Hepatology International* **7**:767-774.

[Abstract]

**Successful treatment of primary sclerosing cholangitis with a steroid and a probiotic.**

Shimizu M, Iwasaki H, Mase S *et al* (2012) *Case Reports in Gastroenterology* **6**:249-253.

[Free paper] [PubMed]

***Lactobacillus casei* Shirota protects from fructose-induced liver steatosis: A mouse model.**

Wagnerberger S, Spruss A, Kanuri G *et al* (2012) *Journal of Nutritional Biochemistry* **24(3)**:531-538.

[PubMed]

**Anticarcinogenic effect of probiotic fermented milk and chlorophyllin on aflatoxin-B<sub>1</sub>-induced liver carcinogenesis in rats.**

Kumar M, Verma V, Nagpal R *et al* (2011) *British Journal of Nutrition* Aug 5 [Epub ahead of print]

[PubMed]

**Effects of perioperative synbiotic treatment on infectious complications, intestinal integrity and faecal flora and organic acids in hepatic surgery with or without cirrhosis.**

Usami M, Miyishi M, Kanbara Y *et al* (2011) *Journal of Parenteral and Enteral Nutrition* **15**: 317-328.

[Free paper] [PubMed]

**Perioperative synbiotic treatment to prevent infectious complications in patients after elective living donor liver transplantation. A prospective randomized study.**

Eguchi S, Tatatsuki M, Hidaka M, Soyama A, Ichikawa T, Kanematsu T (2010) *The American Journal of Surgery* **201(4)**:498-502

[PubMed]

**Effect of probiotic treatment on deranged neutrophil function and cytokine responses in patients with compensated alcoholic cirrhosis.**

Stadlbauer, V, Mookerjee, RP, Hodges, SJ, Wright, G, Davies, NA, Jalan, R (2008) *Journal of Hepatology* **48(6)**: 945-951.

[PubMed]

**Perioperative synbiotic treatment to prevent postoperative infectious complications in biliary cancer surgery: A randomized controlled trial.**

Sugawara G, Nagino M, Nishio H *et al* (2006). *Annals of Surgery* **244(5)**:706-714.

[Free paper] [PubMed]

**Synbiotics reduce postoperative infectious complications: a randomized controlled trial in biliary cancer patients undergoing hepatectomy.**

Kanazawa H, Nagino M, Kamiya S, Komatsu S, Mayumi T, Takagi K, Asahara T, Nomoto K, Tanaka R, Nimura Y (2005) *Langenbeck's Archives of Surgery* **390(2)**: 104-113.

[PubMed]

## Reviews

**Is there a role for probiotics in liver disease?**

Lo RS, Austin AS, Freeman JG (2014) *The Scientific World Journal* Article ID:874768.

[Free paper] [PubMed]

**Therapeutical use of probiotic formulations in clinical practice.**

Iannitti T & Palmieri B (2010) *Clinical Nutrition* **29(6)**: 701-725

[PubMed]