**The Effectiveness of Probiotics on Length of Illness in Healthy Children and Adults who Develop Common Acute Respiratory Infectious Conditions: A Systematic Review and Meta-Analysis**

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Supplementary file 1: details of the literature search

The search strategy used in Medline is shown below. The other search strategies are available from the authors.

1 Probiotics/

2 exp Lactobacillus/

3 Bifidobacterium/

4 (bifidobacter$ or b lactis or b animalis or b breve or b adolescentis or b longum).ti,ab.

5 probiotic$.ti,ab.

6 (lactobacill$ or l plantarum or l paracasei or l rhamnosus or l casei or l actobacill$ or l fermentum).ti,ab.

7 (actimel or danactive).ti,ab.

8 (yakult or shirota).ti,ab.

9 align.ti,ab.

10 (friscus or probifrisk or probi defendum).ti,ab.

11 (gefilus or aktifit or vifit or YOMO or aktif or yoplait or biola or b aktiv or biobalan$ or tema or LGG or maeil pure or vaalia or culturelle or dicoflor$).ti,ab.

12 probiokid.ti,ab.

13 (biotura or AB yogurt or AB yoghurt or Trevis or ABC dophilus).ti,ab.

14 (howaru or nissle).ti,ab.

15 (good start or actiplus or kid essentials or LC1 or pronutrients or biogaia or reuteri or BB536).ti,ab.

16 or/1-15

17 Common Cold/

18 exp Sinusitis/

19 exp Pharyngitis/

20 exp Laryngitis/

21 Laryngostenosis/

22 exp Rhinitis/

23 exp Tonsillitis/

24 Otitis Media/

25 Respiratory Tract Infections/

26 ((common adj2 cold$1) or acute coryza or catarrh$).ti,ab.

27 (sinusiti$ or rhinosi$).ti,ab.

28 (pharyngit$ or nasopharyngit$ or rhinopharyngit$ or sore throat$1).ti,ab.

29 (laryngit$ or croup).ti,ab.

30 (laryngo$ or (stenos$ adj3 (subglottic or laryngeal))).ti,ab.

31 (rhiniti$ or hayfever or hay fever or pollinos$ or (pollen adj2 allerg$)).ti,ab.

32 tonsilliti$.ti,ab.

33 ((otitis adj2 media) or (inflamm$ adj2 middle ear)).ti,ab.

34 (infection$1 adj2 (ear or ears or nose or throat or nasal or respiratory)).ti,ab.

35 (urti or lrti).ti,ab.

36 or/17-35

37 16 and 36

38 animals/ not (animals/ and humans/)

39 37 not 38

40 Probiotics/

41 exp Lactobacillus/

42 Bifidobacterium/

43 (bifidobacter$ or b lactis or b animalis or b breve or b adolescentis or b longum).ti,ab.

44 probiotic$.ti,ab.

45 (lactobacill$ or l plantarum or l paracasei or l rhamnosus or l casei or lactobacill$ or l fermentum).ti,ab.

46 (actimel or danactive).ti,ab.

47 (yakult or shirota).ti,ab.

48 align.ti,ab.

49 (friscus or probifrisk or probi defendum).ti,ab

50 (gefilus or aktifit or vifit or YOMO or aktif or yoplait or biola or b aktiv or biobalan$ or tema or LGG or maeil pure or vaalia or culturelle or dicoflor$).ti,ab.

51 probiokid.ti,ab.

52 (biotura or AB yogurt or AB yoghurt or Trevis or ABC dophilus).ti,ab.

53 (howaru or nissle).ti,ab.

54 (good start or actiplus or kid essentials or LC1 or pronutrients or biogaia or reuteri or BB536).ti,ab.

55 or/40-54

56 Common Cold/

57 exp Sinusitis/

58 exp Pharyngitis/

59 exp Laryngitis/

60 Laryngostenosis/

61 exp Rhinitis/

62 exp Tonsillitis/

63 Otitis Media/

64 Respiratory Tract Infections/

65 ((common adj2 cold$1) or acute coryza or catarrh$).ti,ab.

66 (sinusiti$ or rhinosi$).ti,ab.

67 (pharyngit$ or nasopharyngit$ or rhinopharyngit$ or sore throat$1).ti,ab.

68 (laryngit$ or croup).ti,ab.

69 (laryngo$ or (stenos$ adj3 (subglottic or laryngeal))).ti,ab.

70 (rhiniti$ or hayfever or hay fever or pollinos$ or (pollen adj2 allerg$)).ti,ab.

71 tonsilliti$.ti,ab.

72 ((otitis adj2 media) or (inflamm$ adj2 middle ear)).ti,ab.

73 (infection$1 adj2 (ear or ears or nose or throat or nasal or respiratory)).ti,ab.

74 (urti or lrti).ti,ab.

75 or/56-74

76 55 and 75

77 animals/ not (animals/ and humans/)

78 76 not 77

The following resources were searched for relevant studies for the review:

MEDLINE

EMBASE

the Cochrane Database of Systematic Reviews (CDSR)

Cochrane Central Register of Controlled Trials (CENTRAL)

DARE Database of Abstracts of Reviews of Effects (DARE)

Health Technology Assessment Database (HTA)

Science Citation Index (SCI)

OAISTER

OpenGrey

NTIS

Biosis

CAB Abstracts

Food Science and Technology Abstracts

ClinicalTrials.gov

International Clinical Trials Registry Platform (ICTRP)

EU Clinical Trials Register

Conference Proceedings Citation Index – Science (CPCI-S)

ESPEN congress

Euprobio conference

The International Scientific Conference on Nutraceuticals and Functional Foods (Food and function); European Nutrition Conference (FENS)

Federation of American Societies for Experimental Biology (FASEB)

Probiotics

Prebiotics & New Food

American Dietetics Association

International Congress of Immunology

International Congress of Mucosal Immunology

Congress of the European Union Geriatrics Medicine Society (EUGMS)

IAGG World Congress of Gerontology and Geriatrics

American Academy of Family Physicians

American Academy of Pediatrics

Pediatric Academic Societies (PAS)

World Congress of Sports Medicine

EFSMA-European Sports Medicine Congress

Federation of European Microbiological Societies (FEMS) and American Society of Microbiology (ASM).