

Evidence Analysis Library  
Celiac Disease Systematic Review and Guideline (2020-21)

Table 2. Celiac Disease Systematic Review Search Plan

	Include	Exclude
Age	<b>All RQs:</b> Infants, children and adolescents (ages 0 – 17 years) and adults (aged 18+ years)	<b>All RQs:</b> No ages excluded
Settings	<b>All RQs:</b> Any setting	<b>All RQs:</b> No settings excluded
Health Status	<b>All RQs:</b> Patients who were diagnosed with celiac disease according to either the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) <u>OR</u> the 2012 ESPGHAN (European Society for Pediatric Gastroenterology, Hepatology, and Nutrition) definition	<b>All RQs:</b> Patients without, at risk for, or self-reported celiac disease
Nutrition-Related Problem or Condition	<b>All RQs:</b> Diabetes Mellitus (Type I); Osteoporosis; Infertility; Lymphoma; Irritable Bowel Syndrome; Thyroid Disease; Peripheral Neuropathy; Down Syndrome; Turner’s Syndrome; Dementia; Hepatitis; Epilepsy; Graves’ Disease; Cirrhosis; Psoriasis; Autism; Non-responsive CD; dermatitis herpetiformis; obesity	<b>All RQs:</b> None excluded
Interventions/ Exposures	<b>RQs 1-6:</b> Nutrition intervention including medical nutrition therapy (MNT) provided by a registered dietitian nutritionist (RQ 1), use of pre/probiotics (RQ 2), low FODMAP diet (RQ 3), gluten-free diet (RQ 4), oat consumption (RQ 5), supplements (e.g., calcium, iron, B vitamins, zinc, copper, multivitamin) (RQ 6).	<b>RQ 1:</b> A nutrition intervention not implemented by a registered dietitian nutritionist, or international equivalent. <b>RQs 2-6:</b> Other/no nutrition intervention
Comparison	<b>RQs 1-3, 5-6:</b> Placebo or no treatment (e.g., minimally active intervention, such as printed materials) <b>RQ 4:</b> Control (e.g., non-Celiac Disease patients, established recommendation/level)	<b>RQs 1-3, 5-6:</b> No placebo or active interventions <b>RQ 4:</b> No control or active interventions (e.g., GFD+ probiotics)
Outcome – Intermediate Outcomes/Biological Effects, clinical Outcomes (Timing/Follow-up)	<b>RQs 1-6:</b> <ul style="list-style-type: none"> <li>• Anthropometrics/growth: Length/height-for-age, BMI</li> <li>• Bone health: <b>DEXA scan</b></li> <li>• Nutrition status: CBC, CMP, iron profile, lipid, thyroid function, RBC folate, vitamin B12, vitamin D, zinc</li> <li>• GI Health/Symptom: CDS, CDAT, CSI, ICDSQ, PROMIS Global Health, bloating,</li> </ul>	<b>RQs 1-6:</b> No results on outcomes of interest (Timing/Follow-up: none excluded, except for RQs 3,5: <3 months)

	Include	Exclude
	<p>constipation, diarrhea, cancer, stool change (bristol stool chart)</p> <ul style="list-style-type: none"> <li>• Gluten-free diet adherence/compliance (e.g., histology, dietitian interview, adherence questionnaire, anti-tissue transglutaminase (tTG) antibodies)</li> <li>• Mortality</li> <li>• Quality of Life: IGFDQ, WPAI:SHP</li> </ul> <p>(Timing/Follow-up: no minimum, except for RQs 3,5: ≥3 months)</p>	
Study Designs	<p><b>RQ 1,4:</b> Randomized controlled trials, clinical controlled studies, observational studies (cohort, case control studies, cross-sectional)</p> <p><b>RQs 2-3,5-6:</b> Randomized controlled trials, clinical controlled studies</p>	<p><b>RQ 1,4:</b> Narrative reviews, case studies, case report, case series, noncomparative reviews, letters to the editor, systematic review, meta-analysis</p> <p><b>RQs 2-3,5-6:</b> Narrative reviews, case studies, case report, case series, noncomparative reviews, letters to the editor, systematic review, meta-analysis, observational studies (cohort, case control studies, cross-sectional studies)</p>
Size of Study Groups:	<p><b>All RQs:</b></p> <ul style="list-style-type: none"> <li>-Clinical Controlled studies: N ≥ 10 for each study group</li> <li>-Observational studies: N ≥ 30</li> </ul>	<p><b>All RQs:</b></p> <ul style="list-style-type: none"> <li>-Clinical Controlled studies: N &lt; 10 for each study group</li> <li>-Observational studies: N &lt; 30</li> </ul>
Study Drop Out Rate:	<b>All RQs:</b> ≤30%	<b>All RQs:</b> >30%
Language	<b>All RQs:</b> English language	<b>All RQs:</b> Non-English language
Year Range	<b>All RQs:</b> January 2007 – present (**Last guideline’s lit review ended in January 2007, so we pick up from here per standard protocol**)	<b>All RQs:</b> Before 2007

## Summary

Database	Hits
MEDLINE (Ovid)	1265
Embase (Ovid)	2345
Cochrane CENTRAL (Ovid)	269
CINAHL (Ebsco)	411
Web of Science	882
PsycINFO	122
<b>Total Downloaded Citations</b>	<b>5294</b>
<b>Duplicates Removed</b>	<b>2305</b>
<b>Total to screen at title/abstract stage</b>	<b>2989</b>

**All searches conducted on Sep 09, 2019 by Amanda Wanner ([amandathinks@gmail.com](mailto:amandathinks@gmail.com)).**

### **MEDLINE**

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R) <1946 to September 06, 2019>

Search Strategy:

- 
- 1 celiac disease/ or wheat hypersensitivity/ (19760)
  - 2 (celiac\* or coeliac\*).tw,kf. (27040)
  - 3 sprue.tw,kf. (3118)
  - 4 ((gluten\* or small intestin\*) adj3 enteropath\*).tw,kf. (1075)
  - 5 ((gluten or wheat) adj3 (intoleran\* or sensitiv\* or allerg\* or disorder\*)).tw,kf. (3081)
  - 6 (intestin\* adj2 infantilism).tw,kf. (10)
  - 7 (intestin\* adj2 enzymopath\*).tw,kf. (14)
  - 8 or/1-7 [CELIAC] (34319)
  - 9 celiac disease/dh [diet therapy] (2892)
  - 10 wheat hypersensitivity/dh [diet therapy] (42)
  - 11 dietetics/ or nutritionists/ (8107)
  - 12 nutrition therapy/ or exp diet therapy/ or nutrition assessment/ or nutritional requirements/ or feeding behavior/ (157763)
  - 13 (dietetic\* or dietitian\* or dietician\* or nutritionist\* or dieteticien\* or dietisten\* or nutricionista\*).tw,kf. (17419)
  - 14 ((diet\* or nutrition\*) adj3 (counsel\* or advice or consultation\* or intervention or behavior\* or program\* or service\* or assessment\* or therap\* or individuali?ed or habit\* or recommendation\* or change\*)).tw,kf. (92248)
  - 15 or/9-14 [RQ 8 - MNT] (238331)
  - 16 prebiotics/ or probiotics/ (17050)
  - 17 exp bifidobacterium/ (5630)
  - 18 dietary fiber/ or inulin/ (23031)
  - 19 (probiotic? or pro-biotic? or prebiotic? or pre-biotic? or synbiotic?).tw,kf. (27316)
  - 20 (bifidobacteri\* or lactobacill\* or streptococc\* or saccharomyces\* or escherichia coli nissle 1917 or e coli nissle 1917).tw,kf. (202640)
  - 21 (inulin\* or oligofructose\* or oligo-fructose\* or synergy 1 or synergy one).tw,kf. (8692)
  - 22 ((fiber or fibre) adj3 (diet\* or supplement\*)).tw,kf. (12234)
  - 23 or/16-22 [RQ 9 - PRE/PROBIOTICS] (250314)

24 (ferment\* adj2 (oligosaccharides or oligo-saccharides) adj2 (disaccharides or di-saccharides) adj2 (monosaccharides or mono-saccharides) adj2 polyols).tw,kf. (122)

25 (ferment\* adj2 oligo adj2 di adj2 mono adj2 saccharides adj2 polyols).tw,kf. (40)

26 ((low or eliminate\* or diet\*) adj3 ferment\* adj3 (carb\* or alcohol?)).tw,kf. (171)

27 FODMAP?.tw,kf. (420)

28 or/24-27 [RQ 10 - FODMAP] (586)

29 diet, gluten-free/ (2015)

30 ((gluten\* or wheat or barley or rye or durum or cereal or kamut or secale or semolina or spelt or triticale or triticum or gliadin or hordeum) adj2 (free or without or eliminate\*) adj3 (diet\* or food\* or eating\*)).tw,kf. (4986)

31 GFD.tw,kf. (1048)

32 or/29-31 [RQ 11 - GLUTEN FREE DIET] (5677)

33 Avena/ (2202)

34 avena.tw,kf. (2081)

35 oat?.tw,kf. (12460)

36 or/33-35 [RQ 12 - OATS] (13544)

37 Dietary Supplements/ or exp Vitamins/ (352689)

38 Calcium, Dietary/ or Iron, Dietary/ or Iron/ or exp Ferritins/ or Zinc/ or Vitamin B Complex/ or exp Vitamin B 6/ or exp Vitamin B 12/ or exp Folic Acid/ or Niacin/ or Riboflavin/ or Magnesium/ (313109)

39 ((calcium or iron or ferritin\* or zinc or copper or vitamin\* or folate or folic acid or niacin or riboflavin or magnesium or multivitamin\* or multi-vitamin\* or micronutrient\* or micro-nutrient\* or multimineral\* or multi-mineral or antioxidant\* or anti-oxidant\*) adj3 (diet\* or supplement\* or food or intake or consumption)).tw,kf. (85201)

40 (diet\* adj3 supplement\*).tw,kf. (41589)

41 or/37-40 [RQ 13 - DIETARY SUPPLEMENTS] (617367)

42 15 or 23 or 28 or 32 or 36 or 41 [RQ 8-13] (1074311)

43 8 and 42 [CELIAC - RQ 8-13] (7969)

44 (controlled clinical trial or randomized controlled trial or equivalence trial or pragmatic clinical trial).pt. (577847)

45 clinical trials as topic.sh. (188234)

46 Randomized Controlled Trials as Topic/ (126306)

47 (randomi#ed or randomi#ation? or randomly or RCT or placebo\*).tw,kf. (930310)

48 ((singl\* or doubl\* or trebl\* or tripl\*) adj (mask\* or blind\* or dumm\*)).tw,kf. (166257)

49 trial.ti. (204315)

50 or/44-49 [RCTs] (1344970)

51 controlled clinical trial.pt. (93272)

52 Controlled Clinical Trial/ or Controlled Clinical Trials as Topic/ (98676)

53 (control\* adj2 trial\*).tw,kf. (253731)

54 Non-Randomized Controlled Trials as Topic/ (532)

55 (nonrandom\* or non-random\* or quasi-random\* or quasi-experiment\*).tw,kf. (52705)

56 (nRCT or nRCTs or non-RCT?).tw,kf. (804)

57 Controlled Before-After Studies/ (418)

58 (control\* adj3 ("before and after" or "before after")).tw,kf. (4103)

59 Interrupted Time Series Analysis/ (648)

60 time series.tw,kf. (28488)

61 (pre- adj3 post-).tw,kf. (76125)

62 (pretest adj3 posttest).tw,kf. (5121)

63 Historically Controlled Study/ (157)

64 (control\* adj2 stud\$3).tw,kf. (221554)  
65 Control Groups/ (1631)  
66 (control\* adj2 group\$1).tw,kf. (475056)  
67 trial.ti. (204315)  
68 or/51-67 [NON-RCT] (1177346)  
69 exp Cohort Studies/ (1894375)  
70 cohort?.tw,kf. (534320)  
71 Retrospective Studies/ (767765)  
72 (longitudinal or prospective or retrospective).tw,kf. (1183685)  
73 ((followup or follow-up) adj (study or studies)).tw,kf. (49585)  
74 Observational study.pt. (66472)  
75 (observation\$2 adj (study or studies)).tw,kf. (97896)  
76 ((population or population-based) adj (study or studies or analys#s)).tw,kf. (16568)  
77 ((multidimensional or multi-dimensional) adj (study or studies)).tw,kf. (107)  
78 Comparative Study.pt. (1839202)  
79 ((comparative or comparison or noncomparative or non-comparative) adj (study or studies)).tw,kf. (110479)  
80 exp Case-Control Studies/ (1016494)  
81 ((case-control\* or case-based or case-comparison) adj (study or studies)).tw,kf. (101145)  
82 Cross-Sectional Studies/ (302738)  
83 (cross-section\* or crosssection\*).tw,kf. (358052)  
84 single arm.tw,kf. (6347)  
85 real world.tw,kf. (35110)  
86 or/69-85 [OBSERVATIONAL] (4641096)  
87 43 and (50 or 68 or 86) (2266)  
88 exp Animals/ not (exp Animals/ and Humans/) (4615945)  
89 87 not 88 [ANIMAL-ONLY REMOVED] (2243)  
90 (comment or editorial or news or newspaper article).pt. (1346037)  
91 (letter not (letter and randomized controlled trial)).pt. (1036273)  
92 89 not (90 or 91) [OPINION PIECES REMOVED] (2213)  
93 92 and English.lg. (2006)  
94 limit 93 to yr="2007 -Current" (1266)  
95 remove duplicates from 94 (1265)

## **Embase**

Database: Embase <1974 to 2019 September 06>

Search Strategy:

-----  
1 celiac disease/ or wheat allergy/ (29969)  
2 (celiac\* or coeliac\*).tw,kw. (38371)  
3 sprue.tw,kw. (1780)  
4 ((gluten\* or small intestin\*) adj3 enteropath\*).tw,kw. (1500)  
5 ((gluten or wheat) adj3 (intoleran\* or sensitiv\* or allerg\* or disorder\*)).tw,kw. (4446)  
6 (intestin\* adj2 infantilism).tw,kw. (2)  
7 (intestin\* adj2 enzymopath\*).tw,kw. (10)  
8 or/1-7 [CELIAC] (46137)

- 9 dietetics/ or dietitian/ (15515)
- 10 exp diet therapy/ or nutritional assessment/ or nutritional requirement/ or feeding behavior/ (430428)
- 11 (dietetic\* or dietitian\* or dietician\* or nutritionist\* or dieteticien\* or dietisten\* or nutricionista\*).tw,kw. (25504)
- 12 ((diet\* or nutrition\*) adj3 (counsel\* or advice or consultation\* or intervention or behavior\* or program\* or service\* or assessment\* or therap\* or individuali?ed or habit\* or recommendation\* or change\*)).tw,kw. (125430)
- 13 or/9-12 [RQ 8 - MNT] (521381)
- 14 prebiotic agent/ or exp probiotic agent/ (36278)
- 15 exp Bifidobacterium/ (12234)
- 16 dietary fiber/ or inulin/ (27744)
- 17 (probiotic? or pro-biotic? or prebiotic? or pre-biotic? or synbiotic?).tw,kw. (36127)
- 18 (bifidobacteri\* or lactobacill\* or streptococc\* or saccharomyces\* or escherichia coli nissle 1917 or e coli nissle 1917).tw,kw. (223504)
- 19 (inulin\* or oligofructose\* or oligo-fructose\* or synergy 1 or synergy one).tw,kw. (9801)
- 20 ((fiber or fibre) adj3 (diet\* or supplement\*)).tw,kw. (15702)
- 21 or/14-20 [RQ 9 - PRE/PROBIOTICS] (286607)
- 22 low FODMAP diet/ (153)
- 23 (ferment\* adj2 (oligosaccharides or oligo-saccharides) adj2 (disaccharides or di-saccharides) adj2 (monosaccharides or mono-saccharides) adj2 polyols).tw,kw. (195)
- 24 (ferment\* adj2 oligo adj2 di adj2 mono adj2 saccharides adj2 polyols).tw,kw. (83)
- 25 ((low or eliminate\* or diet\*) adj3 ferment\* adj3 (carb\* or alcohol?)).tw,kw. (232)
- 26 FODMAP?.tw,kw. (883)
- 27 or/22-26 [RQ 10 - FODMAP] (1099)
- 28 exp gluten free diet/ (8437)
- 29 ((gluten\* or wheat or barley or rye or durum or cereal or kamut or secale or semolina or spelt or triticale or triticum or gliadin or hordeum) adj2 (free or without or eliminate\*) adj3 (diet\* or food\* or eating\*)).tw,kw. (7494)
- 30 GFD.tw,kw. (1994)
- 31 or/28-30 [RQ 11 - GLUTEN FREE DIET] (10511)
- 32 exp Avena/ (4099)
- 33 avena.tw,kw. (1453)
- 34 oat?.tw,kw. (14847)
- 35 or/32-34 [RQ 12 - OATS] (16236)
- 36 vitamin supplementation/ or dietary supplement/ or exp vitamin/ (614214)
- 37 mineral intake/ or calcium/ or calcium intake/ or iron/ or iron intake/ or zinc/ or magnesium/ or magnesium intake/ (519751)
- 38 ((calcium or iron or ferritin\* or zinc or copper or vitamin\* or folate or folic acid or niacin or riboflavin or magnesium or multivitamin\* or multi-vitamin\* or micronutrient\* or micro-nutrient\* or multiminer\* or multi-mineral or antioxidant\* or anti-oxidant\*) adj3 (diet\* or supplement\* or food or intake or consumption)).tw,kw. (113269)
- 39 (diet\* adj3 supplement\*).tw,kw. (51139)
- 40 or/36-39 [RQ 13 - DIETARY SUPPLEMENTS] (1109984)
- 41 13 or 21 or 27 or 31 or 35 or 40 [RQ 8-13] (1777741)
- 42 8 and 41 [CELIAC - RQ 8-13] (13497)
- 43 randomized controlled trial/ (569054)
- 44 controlled clinical trial/ (464842)

45 "clinical trial (topic)"/ (104633)  
46 Randomized Controlled Trials as Topic/ (102820)  
47 (randomi#ed or randomi#ation? or randomly or RCT or placebo\*).tw,kw. (1308444)  
48 ((singl\* or doubl\* or trebl\* or tripl\*) adj (mask\* or blind\* or dumm\*)).tw,kw. (230011)  
49 trial.ti. (280523)  
50 or/43-49 [RCTs] (1779135)  
51 exp controlled clinical trial/ (755039)  
52 "controlled clinical trial (topic)"/ (10408)  
53 (control\* adj2 trial\*).tw,kw. (340859)  
54 (nonrandom\* or non-random\* or quasi-random\* or quasi-experiment\*).tw,kw. (66382)  
55 (nRCT or nRCTs or non-RCT\$1).tw,kw. (1142)  
56 (control\* adj3 ("before and after" or "before after")).tw,kw. (5339)  
57 time series analysis/ (24015)  
58 time series.tw,kw. (32720)  
59 pretest posttest control group design/ (411)  
60 (pre- adj3 post-).tw,kw. (137194)  
61 (pretest adj3 posttest).tw,kw. (5969)  
62 controlled study/ (6928348)  
63 (control\* adj2 stud\$3).tw,kw. (297799)  
64 control group/ (110808)  
65 (control\* adj2 group\$1).tw,kw. (684192)  
66 trial.ti. (280523)  
67 or/51-66 [NON-RCTs] (7718570)  
68 cohort analysis/ (505661)  
69 cohort?.tw,kw. (913196)  
70 retrospective study/ (822305)  
71 longitudinal study/ (130214)  
72 prospective study/ (549519)  
73 (longitudinal or prospective or retrospective).tw,kw. (1815264)  
74 follow up/ (1453599)  
75 ((followup or follow-up) adj (study or studies)).tw,kw. (65647)  
76 observational study/ (178080)  
77 (observation\$2 adj (study or studies)).tw,kw. (155077)  
78 population research/ (101551)  
79 ((population or population-based) adj (study or studies or analys#s)).tw,kw. (23727)  
80 ((multidimensional or multi-dimensional) adj (study or studies)).tw,kw. (138)  
81 exp comparative study/ (1345561)  
82 ((comparative or comparison or noncomparative or non-comparative) adj (study or studies)).tw,kw. (126912)  
83 exp case control study/ (163751)  
84 ((case-control\* or case-based or case-comparison) adj (study or studies)).tw,kw. (131898)  
85 cross-sectional study/ (315732)  
86 (cross-section\* or crosssection\*).tw,kw. (463884)  
87 single arm.tw,kw. (13942)  
88 real world.tw,kw. (59260)  
89 or/68-88 [OBSERVATIONAL] (5547819)  
90 42 and (50 or 67 or 89) (5723)



- 91 exp animal experimentation/ or exp animal model/ or exp animal experiment/ or nonhuman/ or exp vertebrate/ (26017416)
- 92 exp human/ or exp human experimentation/ or exp human experiment/ (20128239)
- 93 90 not (91 not 92) [ANIMAL-ONLY REMOVED] (5509)
- 94 editorial.pt. (631008)
- 95 letter.pt. not (randomized controlled trial/ and letter.pt.) (1080527)
- 96 93 not (94 or 95) [OPINION PIECES REMOVED] (5339)
- 97 conference abstract.pt. (3556821)
- 98 96 not 97 [CONFERENCE ABSTRACTS REMOVED] (3661)
- 99 98 and English.lg. (3390)
- 100 limit 99 to yr="2007 -Current" (2403)
- 101 remove duplicates from 100 (2345)

**Cochrane CENTRAL**

Database: EBM Reviews - Cochrane Central Register of Controlled Trials <August 2019>

Search Strategy:

- 
- 1 celiac disease/ or wheat hypersensitivity/ (324)
  - 2 (celiac\* or coeliac\*).tw,kw. (1108)
  - 3 sprue.tw,kw. (20)
  - 4 ((gluten\* or small intestin\*) adj3 enteropath\*).tw,kw. (15)
  - 5 ((gluten or wheat) adj3 (intoleran\* or sensitiv\* or allerg\* or disorder\*)).tw,kw. (238)
  - 6 (intestin\* adj2 infantilism).tw,kw. (0)
  - 7 (intestin\* adj2 enzymopath\*).tw,kw. (0)
  - 8 or/1-7 [CELIAC] (1287)
  - 9 celiac disease/dh [diet therapy] (7)
  - 10 wheat hypersensitivity/dh [diet therapy] (0)
  - 11 dietetics/ or nutritionists/ (123)
  - 12 nutrition therapy/ or exp diet therapy/ or nutrition assessment/ or nutritional requirements/ or feeding behavior/ (8738)
  - 13 (dietetic\* or dietitian\* or dietician\* or nutritionist\* or dieteticien\* or dietisten\* or nutricionista\*).tw,kw. (3043)
  - 14 ((diet\* or nutrition\*) adj3 (counsel\* or advice or consultation\* or intervention or behavio\* or program\* or service\* or assessment\* or therap\* or individuali?ed or habit\* or recommendation\* or change\*)).tw,kw. (27964)
  - 15 or/9-14 [RQ 8 - MNT] (34291)
  - 16 prebiotics/ or probiotics/ (1974)
  - 17 exp bifidobacterium/ (585)
  - 18 dietary fiber/ or inulin/ (1888)
  - 19 (probiotic? or pro-biotic? or prebiotic? or pre-biotic? or synbiotic?).tw,kw. (6491)
  - 20 (bifidobacteri\* or lactobacill\* or streptococc\* or saccharomyces\* or escherichia coli nissle 1917 or e coli nissle 1917).tw,kw. (9736)
  - 21 (inulin\* or oligofructose\* or oligo-fructose\* or synergy 1 or synergy one).tw,kw. (974)
  - 22 ((fiber or fibre) adj3 (diet\* or supplement\*)).tw,kw. (2907)
  - 23 or/16-22 [RQ 9 - PRE/PROBIOTICS] (16536)
  - 24 (ferment\* adj2 (oligosaccharides or oligo-saccharides) adj2 (disaccharides or di-saccharides) adj2 (monosaccharides or mono-saccharides) adj2 polyols).tw,kw. (49)



- 25 (ferment\* adj2 oligo adj2 di adj2 mono adj2 saccharides adj2 polyols).tw,kw. (38)
- 26 ((low or eliminate\* or diet\*) adj3 ferment\* adj3 (carb\* or alcohol?)).tw,kw. (54)
- 27 FODMAP?.tw,kw. (273)
- 28 or/24-27 [RQ 10 - FODMAP] (297)
- 29 diet, gluten-free/ (83)
- 30 ((gluten\* or wheat or barley or rye or durum or cereal or kamut or secale or semolina or spelt or triticale or triticum or gliadin or hordeum) adj2 (free or without or eliminate\*) adj3 (diet\* or food\* or eating\*)).tw,kw. (453)
- 31 GFD.tw,kw. (189)
- 32 or/29-31 [RQ 11 - GLUTEN FREE DIET] (472)
- 33 Avena/ (174)
- 34 avena.tw,kw. (43)
- 35 oat?.tw,kw. (1007)
- 36 or/33-35 [RQ 12 - OATS] (1040)
- 37 Dietary Supplements/ or exp Vitamins/ (23885)
- 38 Calcium, Dietary/ or Iron, Dietary/ or Iron/ or exp Ferritins/ or Zinc/ or Vitamin B Complex/ or exp Vitamin B 6/ or exp Vitamin B 12/ or exp Folic Acid/ or Niacin/ or Riboflavin/ or Magnesium/ (10826)
- 39 ((calcium or iron or ferritin\* or zinc or copper or vitamin\* or folate or folic acid or niacin or riboflavin or magnesium or multivitamin\* or multi-vitamin\* or micronutrient\* or micro-nutrient\* or multimineral\* or multi-mineral or antioxidant\* or anti-oxidant\*) adj3 (diet\* or supplement\* or food or intake or consumption)).tw,kw. (20529)
- 40 (diet\* adj3 supplement\*).tw,kw. (10792)
- 41 or/37-40 [RQ 13 - DIETARY SUPPLEMENTS] (46991)
- 42 15 or 23 or 28 or 32 or 36 or 41 [RQ 8-13] (89397)
- 43 8 and 42 [CELIAC - RQ 8-13] (503)
- 44 conference abstract.pt. (16724)
- 45 43 not 44 [CONFERENCE ABSTRACTS REMOVED] (491)
- 46 45 and english.lg. (334)
- 47 limit 46 to yr="2007 -Current" (269)

## CINAHL

#	Query	Results
S23	S21 NOT (PT commentary OR PT letter OR PT editorial) Limiters - Published Date: 20070101-20191231; English Language	411
S22	S21 NOT (PT commentary OR PT letter OR PT editorial)	473
S21	S20 NOT (MH "Animals+") NOT ((MH "Human") AND (MH "Animals+"))	481
S20	S16 and (S17 or S18 or S19)	484
S19	TI (("case-control*" or "case-based" or "case-comparison") adj (study or studies)) or AB (("case-control*" or "case-based" or "case-comparison") adj (study or studies)) or TI (("case-control*" or "case-based" or "case-comparison") adj (study or studies)) or AB (("case-control*" or "case-based" or "case-comparison") adj (study or studies)) or TI ((comparative or comparison) n0 (study or studies)) or AB ((comparative or	1,032,733

	comparison) n0 (study or studies)) or TI ((multidimensional or "multi-dimensional") n0 (study or studies)) or AB ((multidimensional or "multi-dimensional") n0 (study or studies)) or TI ((population or "population-based") adj (study or studies or analys?s)) or AB ((population or "population-based") adj (study or studies or analys?s)) or TI ((population or "population-based") adj (study or studies or analys?s)) or AB ((population or "population-based") adj (study or studies or analys?s)) or TI (observation* n0 (study or studies)) or AB (observation* n0 (study or studies)) or TI ((followup or "follow-up") n0 (study or studies)) or AB ((followup or "follow-up") n0 (study or studies)) or TI (longitudinal or prospective or retrospective) or AB (longitudinal or prospective or retrospective) or TI (Cohort#) or AB (Cohort#) or (MH "Nonexperimental Studies+") or (MH "Comparative Studies")	
S18	TI (trial) OR TI (control* n1 group*) or AB (control* n1 group*) OR TI (pretest n2 posttest) or AB (pretest n2 posttest) OR TI (pre n2 post) or AB (pre n2 post) OR TI "time series" or AB "time series" OR TI (control* n2 ("before and after" or "before after")) or AB (control* n2 ("before and after" or "before after")) OR TI (nRCT or nRCTs or non-RCT#) or AB (nRCT or nRCTs or non-RCT#) OR TI (nonrandom* or non-random* or quasi-random* or quasi-experiment*) or AB (nonrandom* or non-random* or quasi-random* or quasi-experiment*) OR TI (control* n1 trial*) or AB (control* n1 trial*) OR (MH "Clinical Trials+") or (MH "Controlled Before-After Studies+") or (MH "Historically Controlled Study") or (MH "Interrupted Time Series Analysis") or (MH "Nonrandomized Trials") or (MH "Pretest-Posttest Design+") or (MH "Control Group")	454,814
S17	MH ("clinical trials+" or "randomized controlled trials+") or TI (randomi#ed or randomi#ation? or randomly or RCT or placebo*) or AB (randomi#ed or randomi#ation? or randomly or RCT or placebo*) or TI ((singl* or doubl* or trebl* or tripl*) N0 (mask* or blind* or dumm*)) or AB ((singl* or doubl* or trebl* or tripl*) N0 (mask* or blind* or dumm*)) or TI (trial)	419,329
S16	S3 and S15	2,205
S15	S4 or S5 or S6 or S7 or S8 or S9 or S10 or S11 or S12 or S13 or S14	200,349
S14	TI (((calcium or iron or ferritin* or zinc or copper or vitamin* or folate or folic acid or niacin or riboflavin or magnesium or multivitamin* or multi-vitamin* or micronutrient* or micro-nutrient* or multimineral* or multi-mineral or antioxidant* or anti-oxidant*) N2 (diet* or supplement* or food or intake or consumption)) or (diet* N2 supplement*)) or AB (((calcium or iron or ferritin* or zinc or copper or vitamin* or folate or folic acid or niacin or riboflavin or magnesium or multivitamin* or multi-vitamin* or micronutrient* or micro-nutrient* or multimineral* or multi-mineral or antioxidant* or anti-oxidant*) N2 (diet* or supplement* or food or intake or consumption)) or (diet* N2 supplement*))	26,704
S13	MH ("Dietary Supplements" or "Dietary Supplementation" or "Vitamins+" or "Calcium" or "Calcium, Dietary" or "Iron" or "Zinc" or "Vitamin B Complex+" or "Riboflavin" or "Magnesium")	92,566
S12	TI (avena or oat*) or AB (avena or oat*)	1,566
S11	MH ("Oats")	530

S10	TI (((gluten* or wheat or barley or rye or durum or cereal or kamut or secale or semolina or spelt or triticale or triticum or gliadin or hordeum) N1 (free or without or eliminate*) N2 (diet* or food* or eating*)) or GFD) or AB (((gluten* or wheat or barley or rye or durum or cereal or kamut or secale or semolina or spelt or triticale or triticum or gliadin or hordeum) N1 (free or without or eliminate*) N2 (diet* or food* or eating*)) or GFD)	1,153
S9	MH ("Diet, Gluten-Free")	2,278
S8	TI ((ferment* N1 (oligosaccharides or oligo-saccharides) N1 (disaccharides or di-saccharides) N1 (monosaccharides or mono-saccharides) N1 polyols) or (ferment* N1 oligo N1 di N1 mono N1 saccharides N1 polyols) or ((low or eliminate* or diet*) N2 ferment* N2 (carb* or alcohol?)) or FODMAP*) or AB ((ferment* N1 (oligosaccharides or oligo-saccharides) N1 (disaccharides or di-saccharides) N1 (monosaccharides or mono-saccharides) N1 polyols) or (ferment* N1 oligo N1 di N1 mono N1 saccharides N1 polyols) or ((low or eliminate* or diet*) N2 ferment* N2 (carb* or alcohol?)) or FODMAP*)	203
S7	TI ((probiotic? or pro-biotic? or prebiotic? or pre-biotic? or synbiotic? or bifidobacteri* or lactobacill* or streptococc* or saccharomyces* or escherichia coli nissle 1917 or e coli nissle 1917 or inulin* or oligofructose* or oligo-fructose* or synergy 1 or synergy one) or ((fiber or fibre) N2 (diet* or supplement*))) or AB ((probiotic? or pro-biotic? or prebiotic? or pre-biotic? or synbiotic? or bifidobacteri* or lactobacill* or streptococc* or saccharomyces* or escherichia coli nissle 1917 or e coli nissle 1917 or inulin* or oligofructose* or oligo-fructose* or synergy 1 or synergy one) or ((fiber or fibre) N2 (diet* or supplement*)))	17,557
S6	MH ("Prebiotics" or "Probiotics" or "Bifidobacterium" or "Lactobacillus+" or "Streptococcus+" or "Dietary Fiber")	18,984
S5	TI ((dietetic* or dietitian* or dietician* or nutritionist* or dieteticien* or dietisten* or nutricionista*) or ((diet* or nutrition*) N2 (counsel* or advice or consultation* or intervention or behavio* or program* or service* or assessment* or therap* or individuali?ed or habit* or recommendation* or change*))) or AB ((dietetic* or dietitian* or dietician* or nutritionist* or dieteticien* or dietisten* or nutricionista*) or ((diet* or nutrition*) N2 (counsel* or advice or consultation* or intervention or behavio* or program* or service* or assessment* or therap* or individuali?ed or habit* or recommendation* or change*)))	39,519
S4	MH ("Celiac Disease+/DH" or "Dietetics" or "Diet Therapy+" or "Nutritional Assessment" or "Nutritional Requirements" or "Eating Behavior")	58,929
S3	S1 or S2	6,083
S2	TI ((celiac* or coeliac* or sprue) or ((gluten* or small intestin*) N2 enteropath*) or ((gluten or wheat) N2 (intoleran* or sensitiv* or allerg* or disorder*)) or (intestin* N1 infantilism) or (intestin* N1 enzymopath*)) or AB ((celiac* or coeliac* or sprue) or ((gluten* or small intestin*) N2 enteropath*) or ((gluten or wheat) N2 (intoleran* or sensitiv* or allerg* or disorder*)) or (intestin* N1 infantilism) or (intestin* N1 enzymopath*))	4,997

S1	(MH "Celiac Disease+")	4,245
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### Web of Science

Set	Results	
# 14	882	(#8 and (#9 or #10 or #11)) AND LANGUAGE: (English)
		<b>Refined by:</b> [excluding] DOCUMENT TYPES: ( PROCEEDINGS PAPER OR LETTER OR REVIEW OR EDITORIAL MATERIAL OR BOOK CHAPTER OR MEETING ABSTRACT )
		Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=2007-2019
# 13	1,175	(#8 and (#9 or #10 or #11)) AND LANGUAGE: (English)
		Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=2007-2019
# 12	1,547	#8 and (#9 or #10 or #11)
		Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 11	2,112,658	TS=("cohort\$" or "longitudinal" or "prospective" or "retrospective" or ("followup" or "follow-up") NEAR/0 ("study" or "studies")) or ("observation*" NEAR/0 ("study" or "studies")) or ("population" or "population-based") NEAR/0 ("study" or "studies" or "analys?s")) or ("multidimensional" or "multi-dimensional") NEAR/0 ("study" or "studies")) or ("comparative" or "comparison") NEAR/0 ("study" or "studies")) or ("case-control*" or "case-based" or "case-comparison") NEAR/0 ("study" or "studies"))
		Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 10	1,400,584	TS= (("control*" near/1 "trial*") OR ("nonrandom*" or "non-random*" or "quasi-random*" or "quasi-experiment*") OR ("nRCT" or "nRCTs" or "non-RCT*") OR ("control*" near/2 ("before and after" or "before after")) OR "time series" OR ("pretest" near/2 "posttest") OR ("control*" near/1 "stud*") OR ("control*" near/1 "group*")) OR TI="trial"
		Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 9	1,435,626	TS=("randomi?ed" or "randomi?ation\$" or "randomly" or "RCT" or "placebo*") or TS= (("singl*" or "doubl*" or "trebl*" or "tripl*") near/0 ("mask*" or "blind*" or "dumm*")) or TI= ("trial")
		Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 8	6,118	#1 and (#2 or #3 or #4 or #5 or #6 or #7)
		Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 7	149,514	TS= (("calcium" or "iron" or "ferritin*" or "zinc" or "copper" or "vitamin*" or "folate" or "folic acid" or "niacin" or "riboflavin" or "magnesium" or "multivitamin*" or "multi-vitamin*" or "micronutrient*" or "micro-nutrient*" or "multimineral*" or "multi-mineral" or "antioxidant*" or "anti-oxidant*") NEAR/2 ("diet*" or "supplement*" or "food" or "intake" or "consumption")) or ("diet*" NEAR/2 "supplement*")
		Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 6	35,668	TS= ("avena" or "oat*")
		Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years

# 5	5,934	TS=(((("gluten*" or "wheat" or "barley" or "rye" or "durum" or "cereal" or "kamut" or "secale" or "semolina" or "spelt" or "triticale" or "triticum" or "gliadin" or "hordeum") NEAR/1 ("free" or "without" or "eliminate*") NEAR/2 ("diet*" or "food*" or "eating*")) or "GFD") Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 4	928	TS=(("ferment*" NEAR/1 ("oligosaccharides" or "oligo-saccharides") NEAR/1 ("disaccharides" or "di-saccharides") NEAR/1 ("monosaccharides" or "mono-saccharides") NEAR/1 "polyols") or ("ferment*" NEAR/1 "oligo" NEAR/1 "di" NEAR/1 "mono" NEAR/1 "saccharides" NEAR/1 "polyols") or (("low" or "eliminate*" or "diet*") NEAR/2 "ferment*" NEAR/2 ("carb*" or "alcohol*")) or "FODMAP*") Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 3	355,281	TS=(("probiotic?" or "pro-biotic?" or "prebiotic?" or "pre-biotic?" or "synbiotic?" or "bifidobacteri*" or "lactobacill*" or "streptococc*" or "saccharomyces*" or "escherichia coli nissle 1917" or "e coli nissle 1917" or "inulin*" or "oligofructose*" or "oligo-fructose*" or "synergy 1" or "synergy one") or (("fiber" or "fibre") NEAR/2 ("diet*" or "supplement*"))) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 2	104,923	TS=(("dietetic*" or "dietitian*" or "dietician*" or "nutritionist*" or "dieteticien*" or "dietisten*" or "nutricionista*") or (("diet*" or "nutrition*") NEAR/2 ("counsel*" or "advice" or "consultation*" or "intervention" or "behavio*" or "program*" or "service*" or "assessment*" or "therap*" or "individuali?ed" or "habit*" or "recommendation*" or "change*"))) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years
# 1	34,600	TS=(("celiac*" or "coeliac*" or "sprue") or (("gluten*" or "small intestin*") near/2 "enteropath*") or (("gluten" or "wheat") near/2 ("intoleran*" or "sensitiv*" or "allerg*" or "disorder*")) or ("intestin*" near/1 "infantilism") or ("intestin*" near/1 "enzymopath*")) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years

## PsycINFO

Database: PsycINFO <1806 to September Week 1 2019>

Search Strategy:

- 
- 1 Celiac Disease/ (217)
  - 2 (celiac\* or coeliac\*).tw. (521)
  - 3 sprue.tw. (13)
  - 4 ((gluten\* or small intestin\*) adj3 enteropath\*).tw. (10)
  - 5 ((gluten or wheat) adj3 (intoleran\* or sensitiv\* or allerg\* or disorder\*).tw. (99)
  - 6 (intestin\* adj2 infantilism).tw. (1)
  - 7 (intestin\* adj2 enzymopath\*).tw. (0)
  - 8 or/1-7 [CELIAC] (571)
  - 9 Nutrition/ or exp diets/ or Eating Behavior/ (34178)

- 10 (dietetic\* or dietitian\* or dietician\* or nutritionist\* or dieteticien\* or dietisten\* or nutricionista\*).tw. (1764)
- 11 ((diet\* or nutrition\*) adj3 (counsel\* or advice or consultation\* or intervention or behavior\* or program\* or service\* or assessment\* or therap\* or individuali?ed or habit\* or recommendation\* or change\*)).tw. (13702)
- 12 or/9-11 [RQ 8 - MNT] (40910)
- 13 (probiotic? or pro-biotic? or prebiotic? or pre-biotic? or synbiotic?).tw. (310)
- 14 (bifidobacteri\* or lactobacill\* or streptococc\* or saccharomyces\* or escherichia coli nissle 1917 or e coli nissle 1917).tw. (854)
- 15 (inulin\* or oligofructose\* or oligo-fructose\* or synergy 1 or synergy one).tw. (46)
- 16 ((fiber or fibre) adj3 (diet\* or supplement\*)).tw. (313)
- 17 or/13-16 [RQ 9 - PRE/PROBIOTICS] (1428)
- 18 (ferment\* adj2 (oligosaccharides or oligo-saccharides) adj2 (disaccharides or di-saccharides) adj2 (monosaccharides or mono-saccharides) adj2 polyols).tw. (1)
- 19 (ferment\* adj2 oligo adj2 di adj2 mono adj2 saccharides adj2 polyols).tw. (0)
- 20 ((low or eliminate\* or diet\*) adj3 ferment\* adj3 (carb\* or alcohol?)).tw. (6)
- 21 FODMAP?.tw. (3)
- 22 or/18-21 [RQ 10 - FODMAP] (7)
- 23 ((gluten\* or wheat or barley or rye or durum or cereal or kamut or secale or semolina or spelt or triticale or triticum or gliadin or hordeum) adj2 (free or without or eliminate\*) adj3 (diet\* or food\* or eating\*)).tw. (177)
- 24 GFD.tw. (37)
- 25 or/23-24 [RQ 11 - GLUTEN FREE DIET] (180)
- 26 avena.tw. (42)
- 27 oat?.tw. (650)
- 28 or/26-27 [RQ 12 - OATS] (683)
- 29 exp Dietary Supplements/ or Vitamin Therapy/ (8648)
- 30 Calcium/ or Iron/ or Zinc/ or Magnesium/ (5795)
- 31 ((calcium or iron or ferritin\* or zinc or copper or vitamin\* or folate or folic acid or niacin or riboflavin or magnesium or multivitamin\* or multi-vitamin\* or micronutrient\* or micro-nutrient\* or multimineral\* or multi-mineral or antioxidant\* or anti-oxidant\*) adj3 (diet\* or supplement\* or food or intake or consumption)).tw. (3597)
- 32 (diet\* adj3 supplement\*).tw. (1685)
- 33 or/29-32 [RQ 13 - DIETARY SUPPLEMENTS] (16565)
- 34 12 or 17 or 22 or 25 or 28 or 33 [RQ 8-13] (57204)
- 35 8 and 34 [CELIAC - RQ 8-13] (181)
- 36 exp Randomized Controlled Trials/ or Placebo/ or Treatment Effectiveness Evaluation/ or exp Treatment Outcomes/ (142323)
- 37 (randomi#ed or randomi#ation? or randomly or RCT or placebo\*).tw. (163330)
- 38 ((singl\* or doubl\* or trebl\* or tripl\*) adj (mask\* or blind\* or dumm\*)).tw. (25369)
- 39 trial.ti. (28557)
- 40 or/1-6 [RCTs] (571)
- 41 Clinical Trials/ (11428)
- 42 (control\* adj2 trial\*).tw. (43939)
- 43 (nonrandom\* or non-random\* or quasi-random\* or quasi-experiment\*).tw. (16328)
- 44 (nRCT or nRCTs or non-RCT?).tw. (84)
- 45 (control\* adj3 ("before and after" or "before after")).tw. (834)
- 46 time series/ (2037)

47 time series.tw. (7859)  
48 (pretest adj3 posttest).tw. (7447)  
49 (control\* adj2 stud\$3).tw. (30662)  
50 Experiment Controls/ (910)  
51 (control\* adj2 group\$1).tw. (86392)  
52 trial.ti. (28557)  
53 or/41-52 [NON-RCTs] (188378)  
54 Cohort Analysis/ or exp Longitudinal Studies/ or Repeated Measures/ or Retrospective Studies/ or  
Followup Studies/ (30711)  
55 cohort?.tw. (72522)  
56 (longitudinal or prospective or retrospective).tw. (186798)  
57 ((followup or follow-up) adj (study or studies)).tw. (13931)  
58 (observation\$2 adj (study or studies)).tw. (10237)  
59 ((population or population-based) adj (study or studies or analys#s)).tw. (2581)  
60 ((multidimensional or multi-dimensional) adj (study or studies)).tw. (118)  
61 ((comparative or comparison) adj (study or studies)).tw. (16168)  
62 ((case-control\* or case-based or case-comparison) adj (study or studies)).tw. (7447)  
63 or/54-62 [OBSERVATIONAL] (285531)  
64 35 and (40 or 53 or 63) (181)  
65 exp Animals/ not (exp Animals/ and Humans/) (342098)  
66 64 not 65 [ANIMAL-ONLY REMOVED] (172)  
67 limit 66 to dissertation (5)  
68 66 not 67 [DISSERTATIONS REMOVED] (167)  
69 limit 68 to english language (158)  
70 limit 69 to yr="2007 -Current" (122)