Supplementary material

Search mode and results

PubMed search results:123 in total

Search:(((UC)OR(ulcerative colitis))AND((tcm)OR (traditionalchinese medicine)OR (Chinese medicine))AND (mesalazine))Filtersfrom 2002-2022

CNKI search results: 158 in total

VIP search results:769 in total

WanFang search results:231 in total

SinoMed search results:219 in total

Search mode:

(Title: Ulcerative Colitis) AND (Title: Mesalazine) AND (Title: Clinical) AND (Full Text: Changyening OR Xileisan OR Shaoyao Tang OR Shenling Baizhu OR Baitou Weng Tang) AND Date:*-2022

Cochrane library search results:32 in total

Search mode:

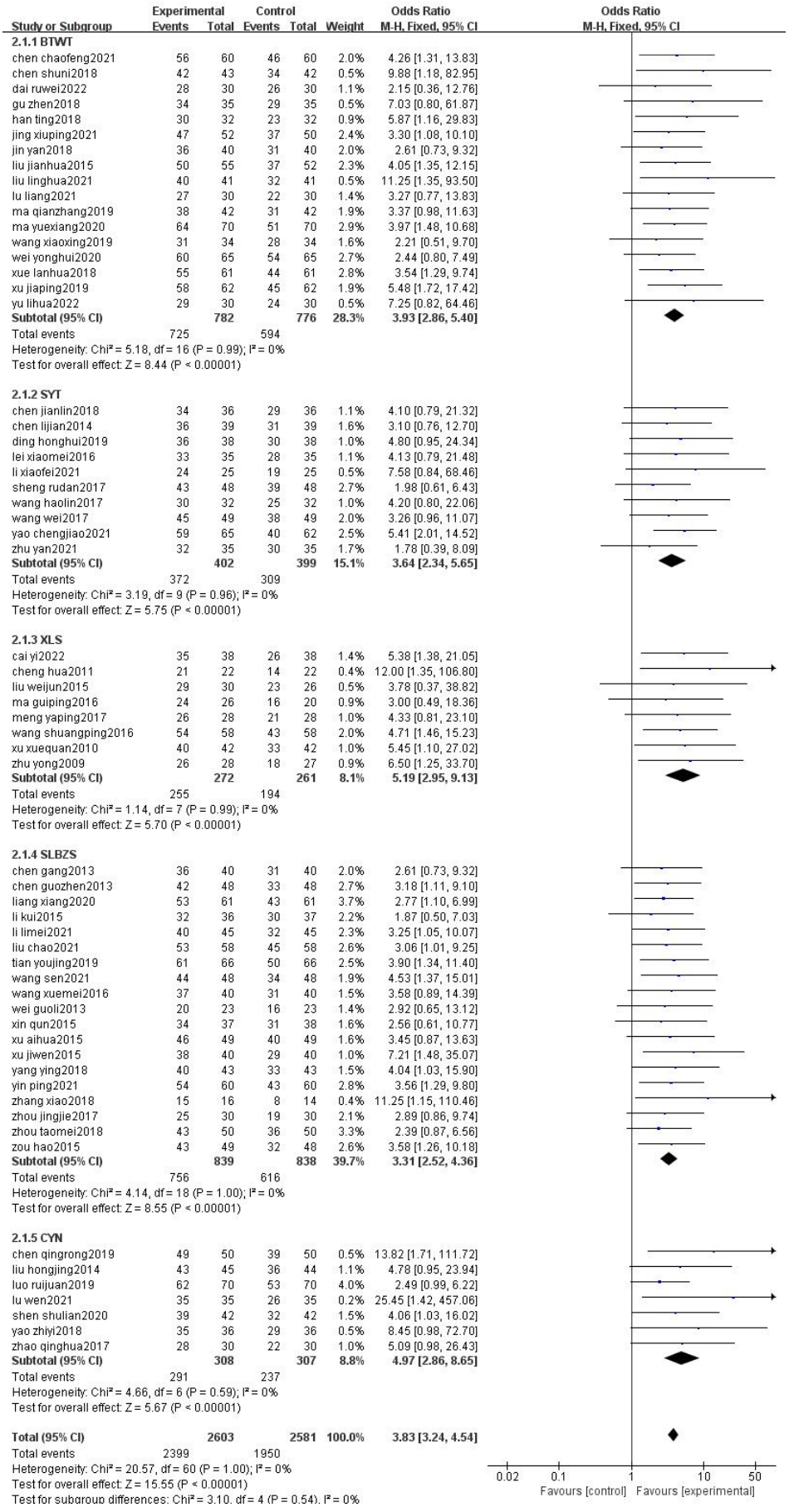
"ulcerative colitis"or"uc"in Title Abstract Keyword AND"mesalazine"in Title AbstractKeywordAND "TCM"or "traditional Chinese medicine"or "Chinese medicine"in Title Abstract Keyword-(Word variations have been searched)

sci-hub search results:166 in total

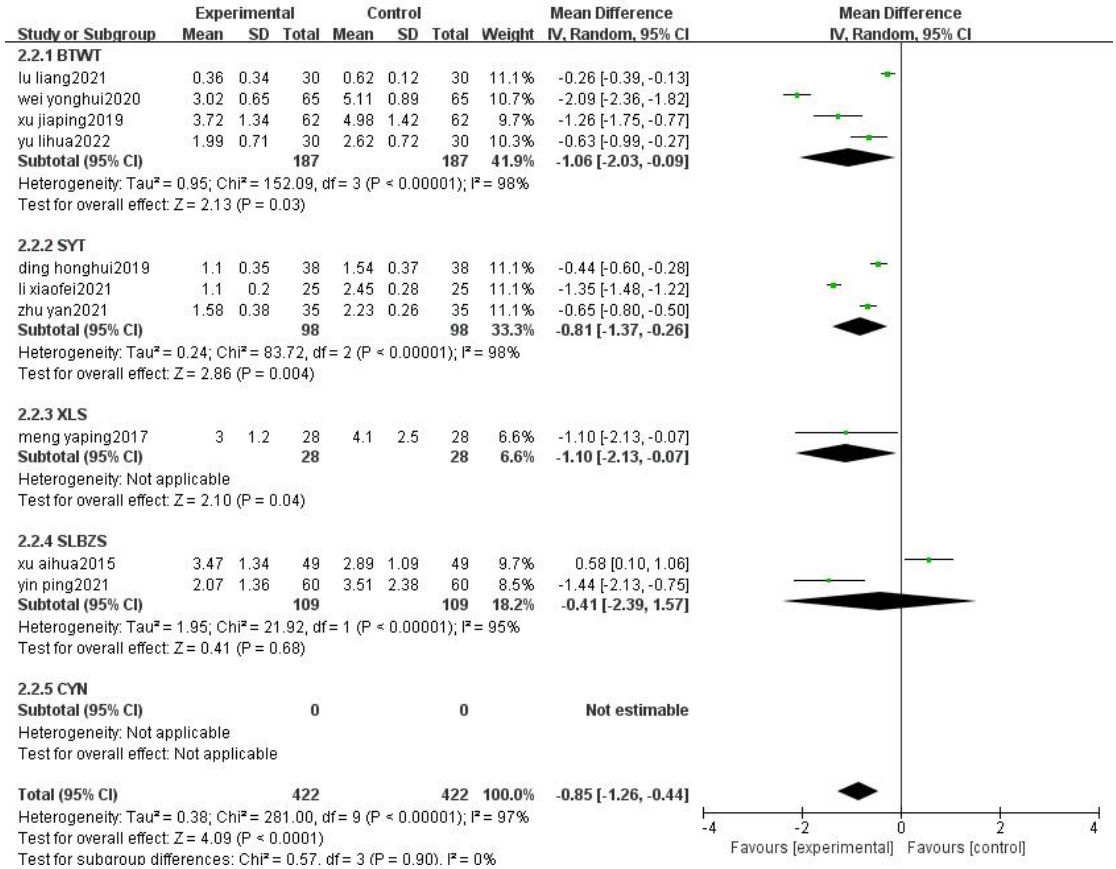
((ALL= (UC))OR ALL=(ulcerative colitis))AND ALL=(mesalazine))AND(ALL=(tcm))OR ALL=(traditional Chinese medicine))OR ALL=(Chinese medicine)))ANDALL=(Baitouweng Decoction))OR ALL=(ShaoyaoDecoction))OR ALL=(ShenlingBaizhu))OR ALL=(Xinlei Powder))OR ALL=(Changyanning)

Heterogeneity

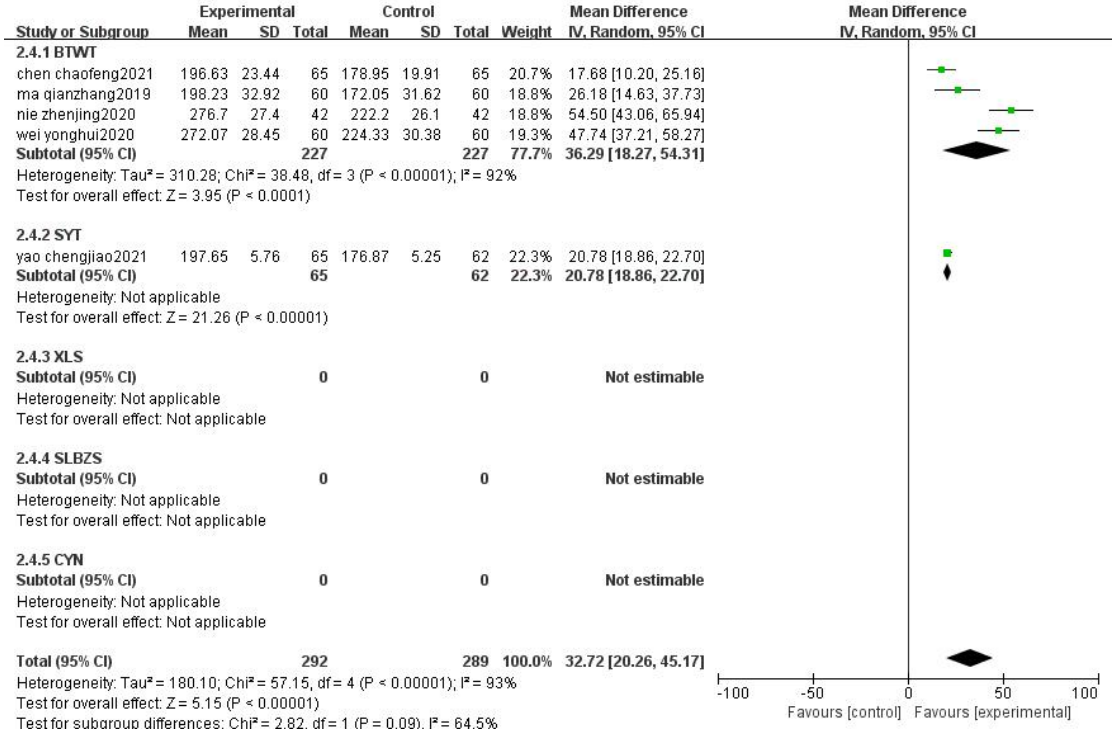
Clinical efficacy



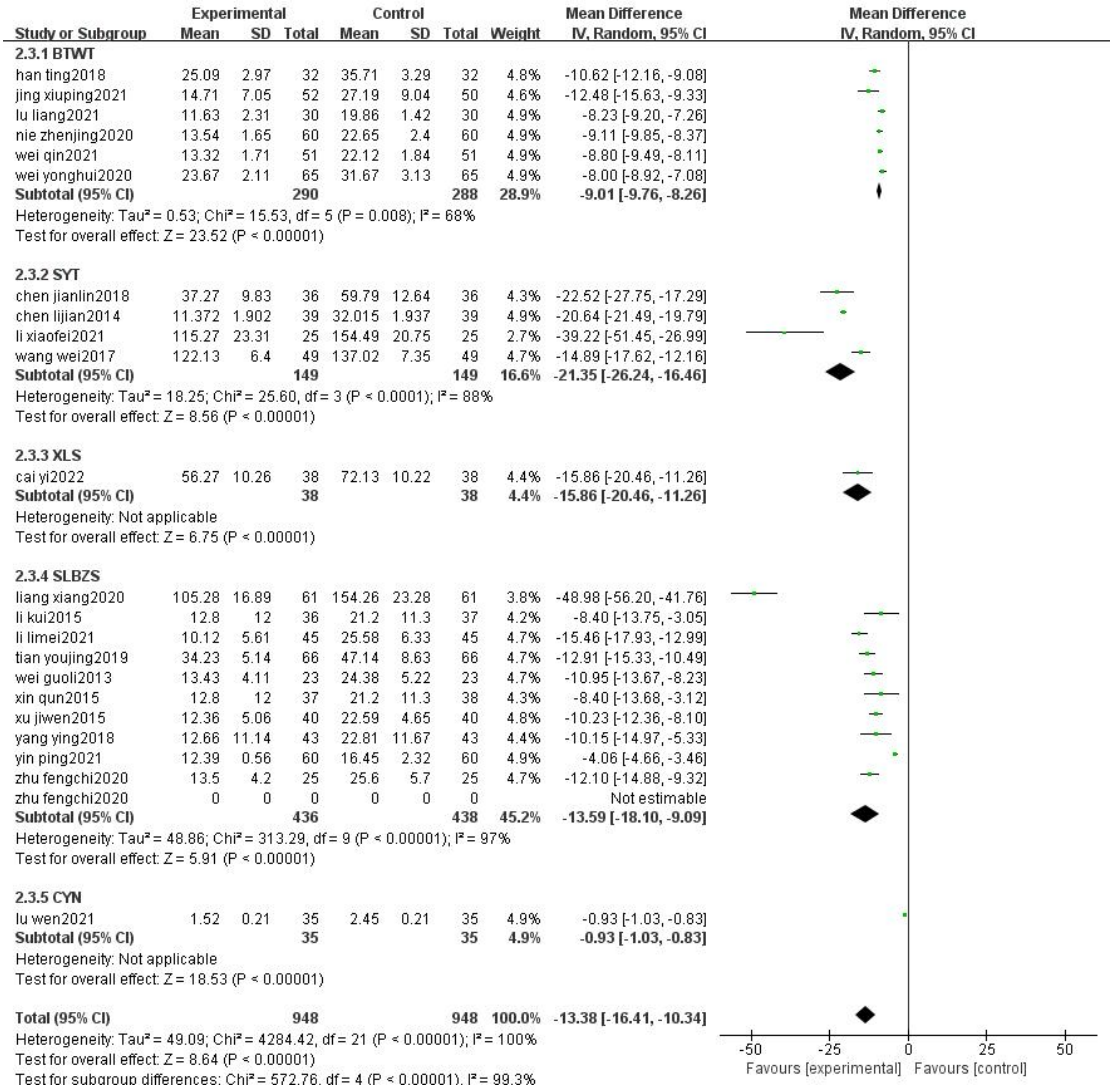
Baron


Experimental
Control
Mean Difference
Mean Difference
Study or Subgroup Mean SD Total Mean SD Total Weight IV, Random, 95% CI
IV, Random, 95% CI
2.2.1 BTWT
lu liang2021 0.36 0.34 30 0.62 0.12 30 11.1% -0.26 [-0.39, -0.13]
wei yonghui2020 3.02 0.65 65 5.11 0.89 65 10.7% -2.09 [-2.36, -1.82]
xu jiaping2019 3.72 1.34 62 4.98 1.42 62 9.7% -1.26 [-1.75, -0.77]
yu lihua2022 1.99 0.71 30 2.62 0.72 30 10.3% -0.63 [-0.99, -0.27]
Subtotal (95% CI) 187 187 41.9% -1.06 [-2.03, -0.09]
Heterogeneity: Tau² = 0.95; Chi² = 152.09, df = 3 (P < 0.00001); I² = 98%
Test for overall effect: Z = 2.13 (P = 0.03)
2.2.2 SYT
ding honghui2019 1.1 0.35 38 1.54 0.37 38 11.1% -0.44 [-0.60, -0.28]
li xiaofei2021 1.1 0.2 25 2.45 0.28 25 11.1% -1.35 [-1.48, -1.22]
zhu yan2021 1.58 0.38 35 2.23 0.26 35 11.1% -0.65 [-0.80, -0.50]
Subtotal (95% CI) 98 98 33.3% -0.81 [-1.37, -0.26]
Heterogeneity: Tau² = 0.24; Chi² = 83.72, df = 2 (P < 0.00001); I² = 98%
Test for overall effect: Z = 2.86 (P = 0.004)
2.2.3 XLS
meng yaping2017 3 1.2 28 4.1 2.5 28 6.6% -1.10 [-2.13, -0.07]
Subtotal (95% CI) 28 28 6.6% -1.10 [-2.13, -0.07]
Heterogeneity: Not applicable
Test for overall effect: Z = 2.10 (P = 0.04)
2.2.4 SLBZS
xu aihua2015 3.47 1.34 49 2.89 1.09 49 9.7% 0.58 [0.10, 1.06]
yin ping2021 2.07 1.36 60 3.51 2.38 60 8.5% -1.44 [-2.13, -0.75]
Subtotal (95% CI) 109 109 18.2% -0.41 [-2.39, 1.57]
Heterogeneity: Tau² = 1.95; Chi² = 21.92, df = 1 (P < 0.00001); I² = 95%
Test for overall effect: Z = 0.41 (P = 0.68)
2.2.5 CYN
Subtotal (95% CI) 0 0 Not estimable
Heterogeneity: Not applicable
Test for overall effect: Not applicable
Total (95% CI) 422 422 100.0% -0.85 [-1.26, -0.44]
Heterogeneity: Tau² = 0.38; Chi² = 281.00, df = 9 (P < 0.00001); I² = 97%
Test for overall effect: Z = 4.09 (P < 0.0001)
Test for subgroup differences: Chi² = 0.57, df = 3 (P = 0.90), I² = 0%
-4
-2
0
2
4
Favours [experimental]
Favours [control]

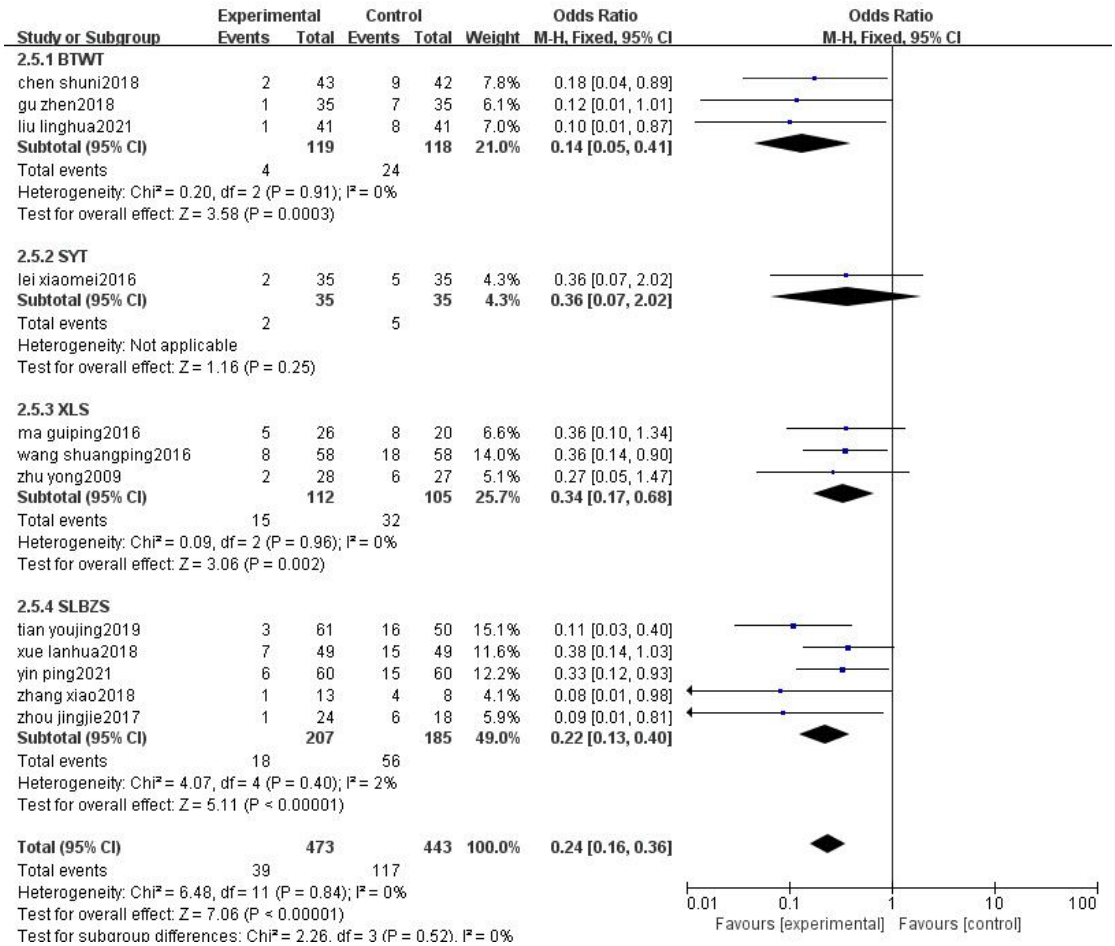
IBDQ


Experimental
Control
Mean Difference
Mean Difference
Study or Subgroup Mean SD Total Mean SD Total Weight IV, Random, 95% CI
IV, Random, 95% CI
2.4.1 BTWT
chen chaofeng2021 196.63 23.44 65 178.95 19.91 65 20.7% 17.68 [10.20, 25.16]
ma qianzhang2019 198.23 32.92 60 172.05 31.62 60 18.8% 26.18 [14.63, 37.73]
nie zhenjing2020 276.7 27.4 42 222.2 26.1 42 18.8% 54.50 [43.06, 65.94]
wei yonghui2020 272.07 28.45 60 224.33 30.38 60 19.3% 47.74 [37.21, 58.27]
Subtotal (95% CI) 227 227 77.7% 36.29 [18.27, 54.31]
Heterogeneity: Tau² = 310.28; Chi² = 38.48, df = 3 (P < 0.00001); I² = 92%
Test for overall effect: Z = 3.95 (P < 0.0001)
2.4.2 SYT
yao chengjiao2021 197.65 5.76 65 176.87 5.25 62 22.3% 20.78 [18.86, 22.70]
Subtotal (95% CI) 65 62 22.3% 20.78 [18.86, 22.70]
Heterogeneity: Not applicable
Test for overall effect: Z = 21.26 (P < 0.00001)
2.4.3 XLS
Subtotal (95% CI) 0 0 Not estimable
Heterogeneity: Not applicable
Test for overall effect: Not applicable
2.4.4 SLBZS
Subtotal (95% CI) 0 0 Not estimable
Heterogeneity: Not applicable
Test for overall effect: Not applicable
2.4.5 CYN
Subtotal (95% CI) 0 0 Not estimable
Heterogeneity: Not applicable
Test for overall effect: Not applicable
Total (95% CI) 292 289 100.0% 32.72 [20.26, 45.17]
Heterogeneity: Tau² = 180.10; Chi² = 57.15, df = 4 (P < 0.00001); I² = 93%
Test for overall effect: Z = 5.15 (P < 0.00001)
Test for subgroup differences: Chi² = 2.82, df = 1 (P = 0.09), I² = 64.5%
-100
-50
0
50
100
Favours [control]
Favours [experimental]

TNF



Recurrence rate

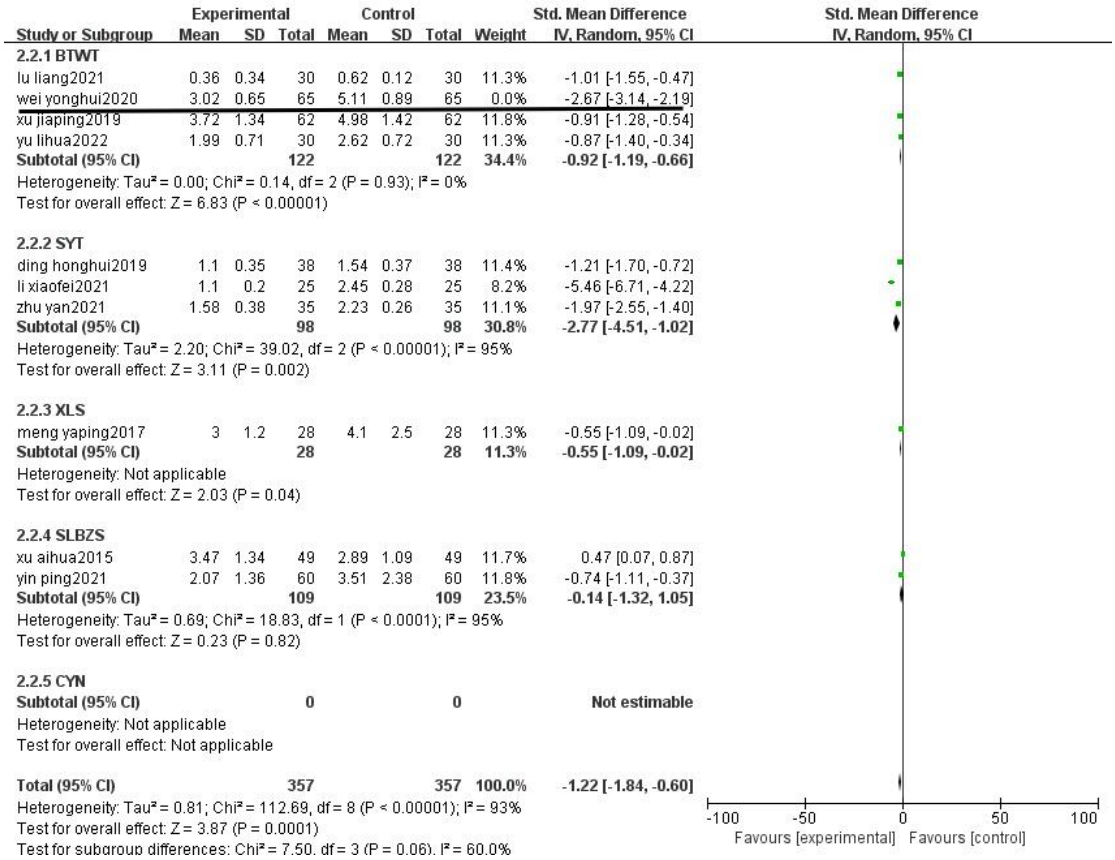


Supplementary Figure 1 Heterogeneity test.

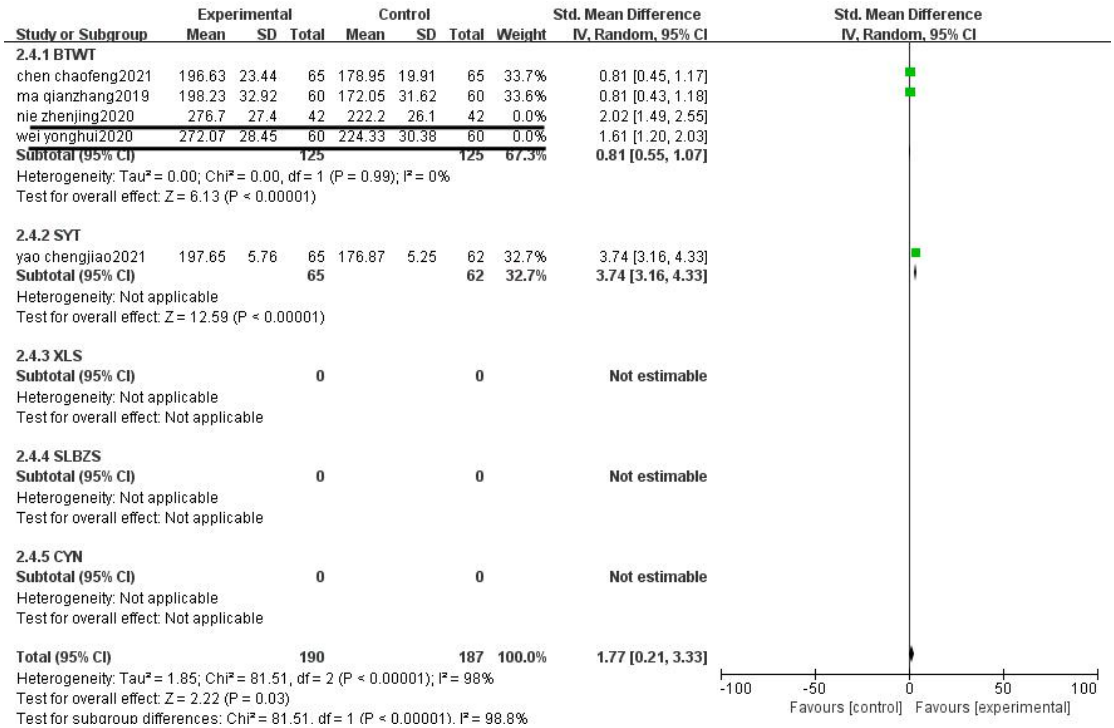
Supplementary Figure 2 Risk of bias summary.

sensitivity analyses

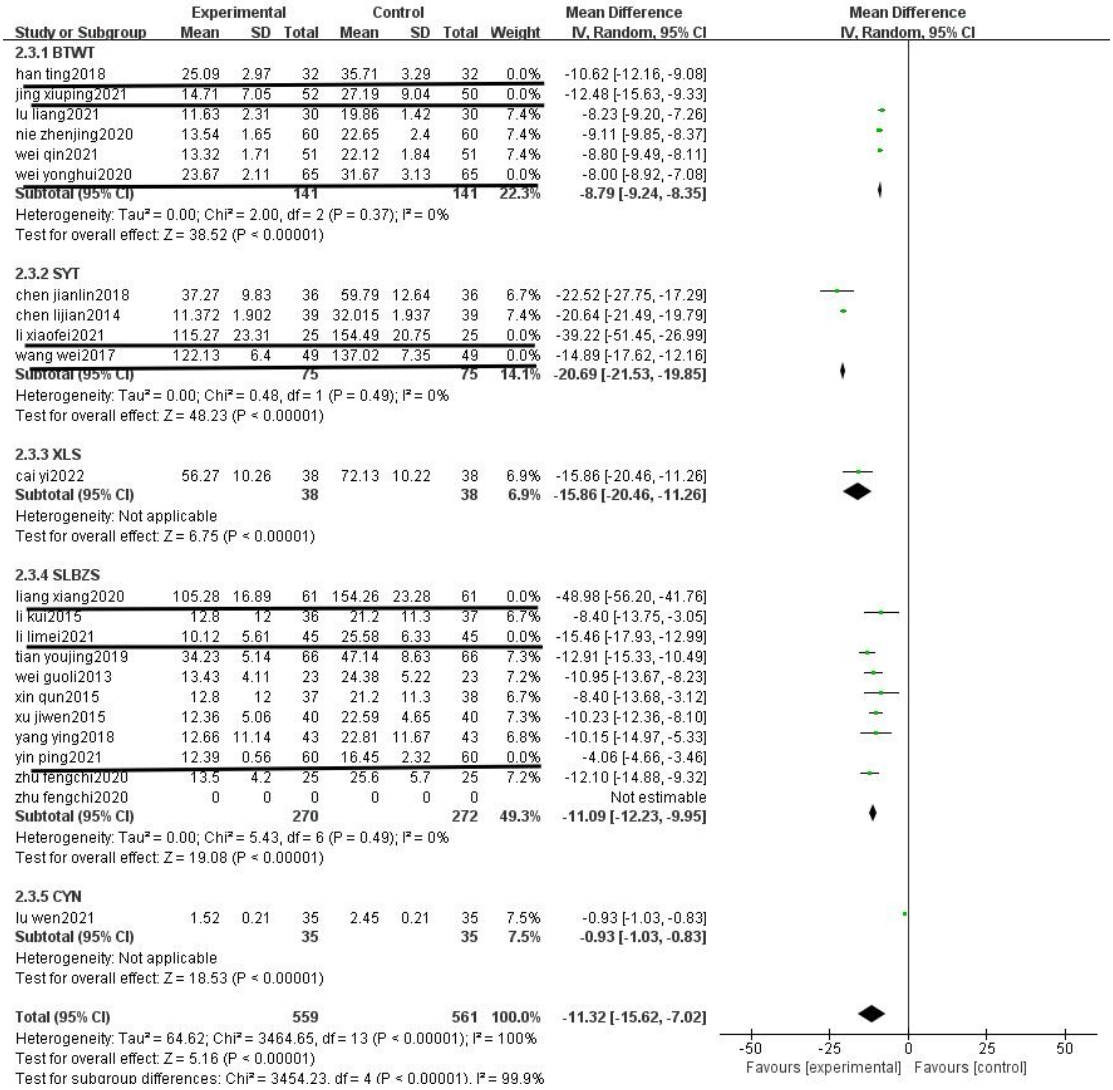
Baron



IBDQ



TNF



consistency analysis

effective

Parameter	PSRF
d.Mesalamine.BTWT	1.00
d.Mesalamine.CYN	1.02
d.Mesalamine.SLBZS	1.02
d.Mesalamine.SYT	1.05
d.Mesalamine.XLS	1.03
sd.d	1.10

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 50,000
Thinning interval : 10
Inference samples : 10,000
Variance scaling factor: 2.5

Baron

Parameter	PSRF
d.Mesalamine.BTWT	1.00
d.Mesalamine.SLBZS	1.00
d.Mesalamine.SYT	1.00
d.Mesalamine.XLS	1.00
sd.d	1.00

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 50,000
Thinning interval : 10
Inference samples : 10,000
Variance scaling factor: 2.5

IBDQ

Parameter	PSRF
d.Mesalamine.BTWT	1.00
d.Mesalamine.SYT	1.00
sd.d	1.00

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 50,000
Thinning interval : 10
Inference samples : 10,000
Variance scaling factor: 2.5

TNF

Parameter	PSRF
d.Mesalamine.BTWT	1.00
d.Mesalamine.CYN	1.00
d.Mesalamine.SLBZS	1.00
d.Mesalamine.SYT	1.00
d.Mesalamine.XLS	1.00
sd.d	1.00

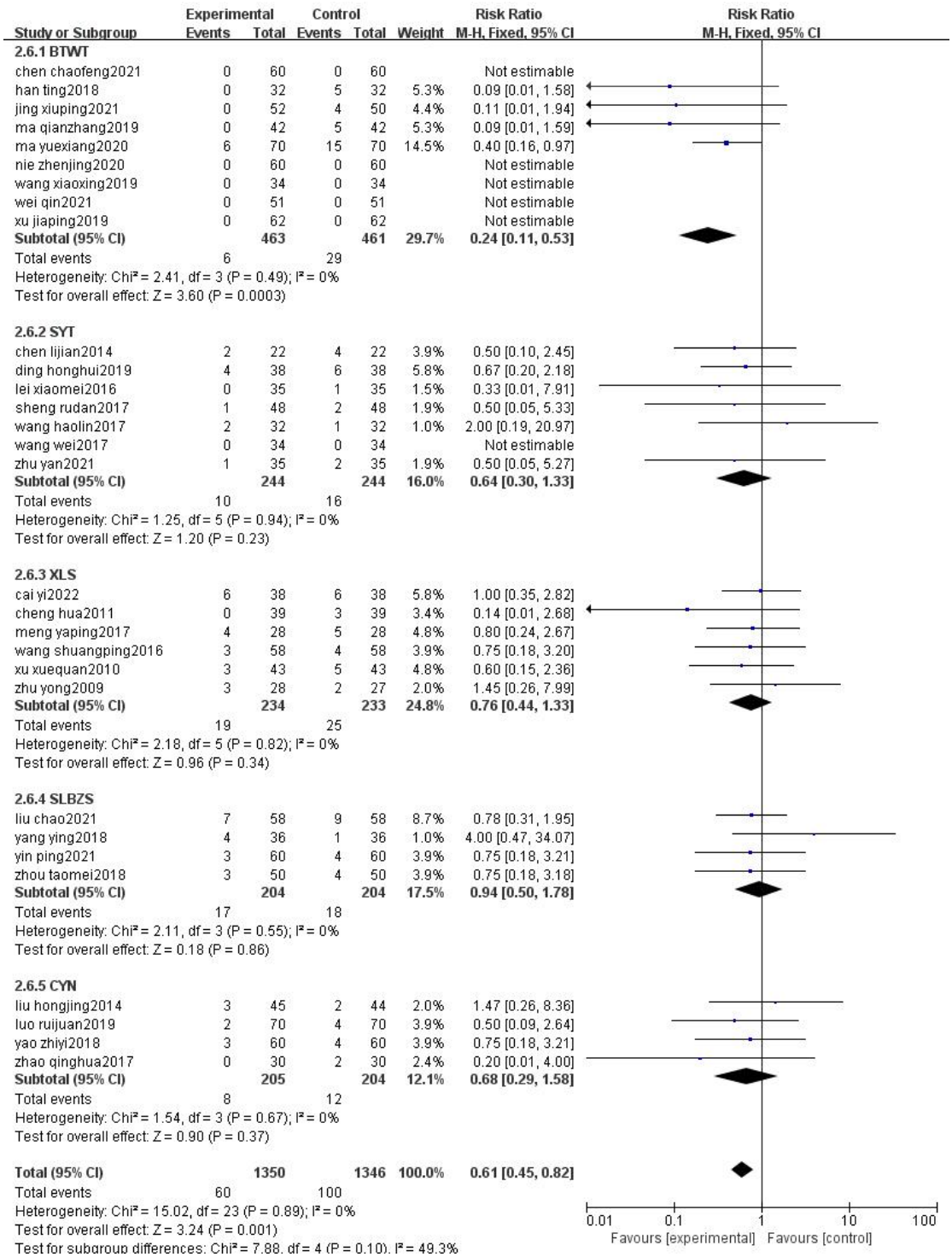
Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 50,000
Thinning interval : 10
Inference samples : 10,000
Variance scaling factor: 2.5

Recurrence rate

Parameter	PSRF
d.Mesalamine.BTWT	1.00
d.Mesalamine.SLBZS	1.00
d.Mesalamine.XLS	1.00
sd.d	1.00

Number of chains : 4
Tuning iterations : 20,000
Simulation iterations : 50,000
Thinning interval : 10
Inference samples : 10,000
Variance scaling factor: 2.5

Supplementary Figure 3 Consistency and sensitivity analysis.



Supplementary Figure 4 Heterogeneity test of adverse reaction.