

Dear Editor,

Thank you for your decision letter and advice on our manuscript (Manuscript # 88072) entitled “Analysis of nutritional risk, skeletal muscle depletion, and lipid metabolism phenotype in acute radiation enteritis”. We also thank the reviewers for their positive, constructive comments and suggestions. We have revised the manuscript accordingly, and all amendments are shown in red font in the revised manuscript. In addition, our point-by-point responses to the comments are listed below this letter.

This revised manuscript has been edited and proofread by *Medjaden* Inc.

We hope our revised manuscript is now acceptable for publication in your journal, and we look forward to hearing from you soon.

With best wishes,

Yours sincerely,

Ju-ying Zhou

Reviewer #1: Thank you for giving me an opportunity to review the manuscript “Analysis of nutritional risk, skeletal muscle depletion, and lipid metabolism phenotype in acute radiation enteritis.” I congratulate the authors for their efforts. The methodology is sound. Language of the manuscript need improvement. Specific comments are as below:

Abstract Remove aimed.

Response: Thank you for your suggestion. We have revised the Abstract accordingly (page 4) .

Introduction radiotherapy placement replace with radiotherapy delivery.

Response:

Thank you for your suggestion. We have revised the Introduction section as requested. (page 7, lines 1-2)

Methods Authors have not mentioned whether brachytherapy was used or not?

Response: Thank you for your inquiry. We have revised the methods section accordingly and added the required to the document (page 4, lines 10-11) .

Results Replace general situation with patient characteristics.

Response: Thank you for your suggestion. We have revised the results section accordingly (page 4, lines 17-25; page 5, lines 1-3) .

RAIS number need to be mentioned for diarrhea, abdominal pain, colitis, anal swelling, and hematochezia.

Response: Thank you for your suggestion. The following table has been added (page 31) .

Table 1. Grading of adverse reactions in RAIS

Adverse reaction	Level 0	Level 1	Level 2	Level 3
Diarrhea	13 (26)	29 (58)	5 (10)	3 (6)
Abdominal pain	29 (58)	18 (36)	3 (6)	0 (0)
Colitis	38 (76)	12 (24)	0 (0)	0 (0)

Anal swelling	33 (66)	11 (22)	6 (12)	0 (0)
Hematochezia	35 (70)	15 (30)	0 (0)	0 (0)
Myelosuppression	15 (30)	13 (26)	12 (24)	10 (20)

How many patients had decrease body weight, skeletal muscle content, BMI, phase angle, serum albumin levels, and serum prealbumin levels? And how much?

Response: Thank you for your inquiry. The following table has been added.

Table 2. Changes in body weight and body composition of patients with cervical cancer during the peri-radiation period

	T0	T2	T4	Tf
Body weight (kg)	56.12 ± 1.18	54.40 ± 1.14	52.26 ± 1.10	49.63 ± 1.04
Skeletal muscle content (%)	46.96 ± 4.23	45.72 ± 3.91	43.28 ± 3.79	41.44 ± 3.76
Body fat content (%)	22.20 ± 0.40	22.20 ± 0.40	21.20 ± 0.40	20.50 ± 0.30
BMI (Kg/m ²)	21.30 ± 0.34	20.74 ± 0.33	19.92 ± 0.31	18.92 ± 0.30
Phase angle (°)	5.13 ± 0.09	4.99 ± 0.09	4.79 ± 0.08	4.55 ± 0.08
Serum albumin (g/L)	38.46 ± 0.31	36.92 ± 0.29	35.44 ± 0.28	33.67 ± 0.27
Serum prealbumin (mg/L)	302.88 ± 9.62	290.76 ± 9.22	279.16 ± 8.86	265.22 ± 8.41
NRS 2002 score	1.24 ± 0.52	1.60 ± 0.70	2.12 ± 0.77	2.96 ± 0.53

The above content has been added to the supplementary material, with quantitative charts detailed in Figures 2c-j.

factors of changes in fecal supernatant linoleic acid in patients with cervical cancer during the periradiation period change to factors for changes in fecal supernatant linoleic acid Discussion Summarise the main findings in the first paragraph. Page 20, “However, when the prescribed dose in the target area is 36–40 Gy, the inhibitory effect of arachidonic acid is lost, suggesting that the abovementioned negative feedback regulation mechanism is facing difficulties.” This sentence needs to be modified.

Response: Thank you for your suggestion. “36–40 Gy” has been replaced with “more than 40 Gy” at the mentioned instance. (page 21, line 21)

Reviewer #2: No comment.