**Additional file 1**

**Supplementary Table 1.** Search strings and terms

|  |  |  |  |
| --- | --- | --- | --- |
| **Database** | **Search query** | **Number of found records** | **Number of found records without duplication** |
| Embase.com | ('controlling nutritional status score'/de OR 'controlling nutritional status'/de OR ('serum albumin'/de AND 'cholesterol blood level'/exp AND 'lymphocyte count'/exp) OR ('Controlling Nutritional Status' OR conut OR (albumin NEAR/10 cholesterol NEAR/10 lymphocyte NEAR/10 (count\* OR serum\* OR concentrat\*))):ab,ti) AND ('stomach tumor'/exp OR 'gastrectomy'/exp OR (((gastric\* OR stomach) NEAR/3 (tumor\* OR tumour\* OR cancer\* OR malign\* OR carcinom\* OR adenocarcinom\* OR surg\* OR resect\*)) OR gastrectom\* ):ab,ti) | 27 | 26 |
| Medline Ovid | ((Serum Albumin/ AND exp cholesterol/bl AND exp Lymphocyte Count/) OR (Controlling Nutritional Status OR conut OR (albumin ADJ10 cholesterol ADJ10 lymphocyte ADJ10 (count\* OR serum\* OR concentrat\*))).ab,ti.) AND (Stomach Neoplasms/ OR gastrectomy/ OR (((gastric\* OR stomach) ADJ3 (tumor\* OR tumour\* OR cancer\* OR malign\* OR carcinom\* OR adenocarcinom\* OR surg\* OR resect\*)) OR gastrectom\* ).ab,ti.) | 18 | 2 |
| Web of science  | TS=((("Controlling Nutritional Status" OR conut OR (albumin NEAR/10 cholesterol NEAR/10 lymphocyte NEAR/10 (count\* OR serum\* OR concentrat\*)))) AND ((((gastric\* OR stomach) NEAR/2 (tumor\* OR tumour\* OR cancer\* OR malign\* OR carcinom\* OR adenocarcinom\* OR surg\* OR resect\*)) OR gastrectom\* ))) | 16 | 8 |
| Cochrane CENTRAL | (('Controlling Nutritional Status' OR conut OR (albumin NEAR/10 cholesterol NEAR/10 lymphocyte NEAR/10 (count\* OR serum\* OR concentrat\*))):ab,ti) AND ((((gastric\* OR stomach) NEAR/3 (tumor\* OR tumour\* OR cancer\* OR malign\* OR carcinom\* OR adenocarcinom\* OR surg\* OR resect\*)) OR gastrectom\* ):ab,ti) | 3 | 1 |
| Google scholar | "Controlling Nutritional Status"|conut "gastric|stomach tumor|tumour|cancer|malignancy|carcinoma|resection"|gastrectomy | 30 | 24 |
| Total |  | **94** | **61** |

**Supplementary Table 2.** The Newcastle-Ottawa scale for quality assessment of include studies.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Study** | **Selection** | **Comparability** | **Outcome** | **Total score** |
| Representativenessof the exposedcohort | Selectionof thenon-exposedcohort | Ascertainmentof exposure | Demonstrationthat outcomeof interest wasnot present atstart of study | Comparabilityof cohorts onthe basis ofthe design oranalysis | Assessmentof outcome | Was follow-up longenough foroutcomes to occur | Adequacyof followup ofcohorts |  |
| Total score | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 9 |
| Kuroda [7] | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 6 |
| Zheng [8] | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 7 |
| Liu [9] | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 6 |
| Ryo [13] | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 7 |
| Suzuki [14] | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 6 |

**Supplementary Figure 1.** Funnel plots demonstrating primary endpoint in terms of low CONUT versus high CONUT score. (a) OS; (b) CCS; and (c) RFS.

a. OS



b. CCS



c. RFS

