

Supplementary table 1. Selected studies for systematic review and meta-analysis of malnutrition in Thai older people

| Author, year | Type of study | Region | Population | n | Recruitment Strategy | Female (%) | Age, year \pm SD | Method | Malnutrition (%) | At risk of malnutrition (%) | Risk of bias |
|--------------------------------------|---------------|-----------|---------------------|-----|--|------------|--------------------------------|----------------|---------------------------------|-----------------------------|--------------|
| Arsasoi K, 2013 ²³ | CSS | Northeast | CD | 185 | 1 community center | 52.2 | 69.9 \pm 7.6 | BMI MNA | BMI 22 (11.9) MNA 6 (3.2) | MNA 62 (33.5) | Low |
| Aungsupasakorn S, 2010 ²⁴ | CSS | BMR | CD | 385 | Slum community | 65.5 | 69.6 \pm 7.2 | BMI | 24 (6.2) | | Low |
| Boonchu K, 2002 ²⁵ | CSS | Northern | CD | 65 | Volunteer for check-up | 43 | 70.14 | BMI | 19 (29.2) | | Moderate |
| Boonpleng W, 2015 ²⁶ | CSS | BMR | CD | 87 | Chaopraya waterfront community | 68.2 | 73.1 \pm 8 | BMI | 7 (8.0) | | Moderate |
| Boontanon N, 2017 ²⁷ | CSS | Northeast | CD | 276 | Random from 4 municipal and 4 non-municipal | 62 | 69.9 | BMI MNA-SF | BMI 20 (7.2) MNA-SF 17 (6.2) | MNA-SF 98 (35.5) | Low |
| Chairit W, 2012 ²⁸ | CSS | Southern | CD | 194 | 1 community center | 59.8 | 68.8 \pm 6.2 | BMI | 38 (19.6) | | Low |
| Chalerm Sri C, 2018 ²⁹ | CSS | BMR | OP | 324 | Geriatric clinic | 63.3 | 77.5 \pm 6.8 | MNA | 27 (8.3) | 115 (35.5) | Moderate |
| Chanchoom N, 2013 ³⁰ | CSS | BMR | CD | 400 | Elderly club | 63 | 60-65 = 36% | BMI | 28 (7.0) | | High |
| Chanprasert P, 2013 ³¹ | PCS | NW | CD | 594 | 5 community centers | 64 | NA | BMI MNA-SF | BMI 81 (13.8) | MNA-SF 213 (35.9) | Moderate |
| Chinuntuya P, 2016 ³² | PCS | BMR | IP | 81 | Gastrointestinal cancer patient in surgical ward | 37 | 69.7 \pm 6.8 | MST Albumin | Albumin 20 (24.7) | MST 44 (54.3) | Low |
| Churak P, 2018 ³³ | CSS | Northeast | CD | 398 | 2 urban and 2 rural areas | 64.8 | 60-69 = 55% | BMI | 44 (11.1) | | Low |
| Dangjai S, 2017 ³⁴ | CSS | Northern | CD | 268 | Semi-urban and semi-rural areas | 57 | 60-65 = 36.6% 66-70 = 25.7% | MNA | 15 (5.6) | 145 (54.1) | Moderate |
| Duangjina T, 2020 ³⁵ | CSS | Northern | CD | 88 | Dependent older adults | 58 | 76 \pm 11.5 | BMI | 26 (29.5) | | Moderate |
| Gaewkhiew P, 2019 ³⁶ | CSS | Western | CD | 788 | Independent older adults, 6 of municipal and 11 of non-municipal areas | 69.8 | 69.8 | BMI | 54 (6.9) | | Low |
| Inthamart P, 2013 ³⁷ | CSS | Northeast | CD | 205 | 1 community center | 48.3 | 66 | BMI | 20 (9.8) | | Low |
| Junlaphan K, 2008 ³⁸ | CSS | Northern | CD | 30 | 1 community center | 73.3 | 69.2 | BMI | 2 (9.1) | | Moderate |
| Kaewpitoon S, 2015 ³⁹ | CSS | Northeast | CD | 405 | NA | 63.5 | 60-70 = 75.5% 71-80 = 20% | BMI | 99 (24.4) | | Moderate |
| Kanin M, 2020 ⁴⁰ | CSS | Central | Primary care center | 250 | Area under 1 Promoting Health Hospital | 71.2 | 69.8 \pm 8.4 | BMI MNA | BMI 17 (6.8) MNA 26 (10.4) | MNA risk 104 (41.6) | Moderate |

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| Khanrugsa S, 2017 ⁴¹ | CSS | Northeast | IP | 216 | 7 departments, admitted at least 7 days | 53.2 | 69 \pm 7.5 | NRS 2002 | 183 (84.7) | | High |
| Khodkam K, 2019 ⁴² | CSS | Northeast | CD | 279 | 1 community center | 62.4 | 68.9 \pm 6.8 | BMI | 31 (11.1) | | Low |
| Khongsri N, 2016 ⁴³ | CSS | Central | CD | 243 | volunteer to health activity | 74.5 | 69.7 \pm 6.9 | BMI | 21 (8.6) | | Moderate |
| Kittipimpanon K, 2005 ⁴⁴ | CSS | BMR | CD | 105 | Slum community | 80 | 70.4 \pm 5.9 | BMI | 10 (9.5) | | Low |
| Klongkitcharoen P, 2019 ⁴⁵ | CSS | BMR | OP | 240 | Geriatric clinic | 70.4 | 75.6 \pm 7.4 | BMI | 13 (5.4) | | Low |
| Limpawattana P, 2020 ⁴⁶ | CSS | Northeast | OP | 85 | cancer patients visited chemotherapy clinic | 49.4 | \geq 65 =81.2% | BMI | 13 (15.2) | | Moderate |
| Limsuwanmanee J, 2020 ⁴⁷ | CSS | Southern | CD | 323 | 1 municipal | 66.6 | 60-69 =53.3% 70-79 =32.5% | BMI | 14 (4.3) | | High |
| Manojit T, 2006 ⁴⁸ | CSS | Northern | NH | 55 | Public nursing home | 58.2 | 75.65 | BMI (knee height) | 8 (14.5) | | Moderate |
| Mattayaruk S, 2014 ⁴⁹ | CSS | Northeast | OP | 182 | Non-communicable diseases clinic | 66 | 71.7 \pm 6.5 | BMI Albumin Hb Hct MAC | BMI 25 (13.7) Albumin 36 (19.8) Hb 135 (74.2) Hct 134 (73.6) MAC 111 (61) | | High |
| Mitprasart U, 2011 ⁵⁰ | CSS | Northeast | IP | 209 | Medical ward | 49 | 60-69 =43.5% 70-79 =38.3% | MNA Albumin Hb, Hct TLC Cholesterol | MNA 44 (21.0) Albumin 165 (79.0) Hb 169 (80.8) Hct 171 (81.8) TLC 118 (56.5) Cholesterol 61 (29.2) | MNA 96 (46.0) | Low |
| Nasok W, 2019 ⁵¹ | CSS | Northeast | CD | 96 | urban area | 66.7 | 60-69 =37.5% 70-79 =41.7% | BMI | 10 (10.4) | | Moderate |
| Nawai A, 2018 ⁵² | CSS | Northern | CD | 147 | Low-income suburban area | NA | NA | MNA | | 85 (57.8) | NA |
| Nilmanat K, 2013 ⁵³ | CSS | Southern | CD | 580 | Rural and urban area of 3 southern border provinces | 54.5 | 70.3 \pm 8.1 | MNA MNA-SF MNA-SF | MNA 15 (2.6) | MNA-SF 219 (37.8) MNA 136 (23.4) | Low |

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| Author, year | Type of study | Region | Population | n | Recruitment Strategy | Female (%) | Age, year \pm SD | Method | Malnutrition (%) | At risk of malnutrition (%) | Risk of bias |
|---|---------------|-----------|------------|------|--|------------|--|--|--|------------------------------------|--------------|
| Pengsorn N, 2018 ⁵⁴ | CSS | BMR | OP | 159 | Geriatric clinic | 62.3 | 76.9 \pm 6.4 | MNA NAF-BMI NAF-albumin NAF-TLC | MNA 12 (7.5) NAF-BMI: 40 (25.1) NAF-albumin: 37 (23.3) NAF-TLC: 39 (24.5) | MNA 52 (32.7) | Low |
| Petmuang T, 2018 ⁵⁵ | CSS | BMR | CD | 400 | NA | 41 | 70.3 \pm 8.1 | MNA MNA-SF | MNA 26 (6.5) | MNA-SF 146 (36.5) MNA 75 (18.8) | Moderate |
| Phaibulvatanapong E, 2017 ⁵⁶ | PCS | BMR | IP | 151 | solid malignancy patients scheduled for chemotherapy, GI tract 47.6%, lung 24.5% | 45.7 | \leq 75 =47.7% $>$ 75 =52.3% | BMI SGA | BMI 14 (9.3) SGA 92 (60.9) | | Moderate |
| Phantha A, 2009 ⁵⁷ | CSS | Northern | CD | 52 | 1 urban community center without underlying disease | 65.4 | 67.35 | BMI | 1 (1.9) | | Moderate |
| Phonchai B, 2015 ⁵⁸ | CSS | Northeast | CD | 273 | rural area | 60.2 | 65-69 =43.6% | BMI | 37 (13.6) | | Moderate |
| Phonphai S, 2016 ⁵⁹ | CSS | Central | CD | 420 | Dependent older people | 67.4 | 76.6 \pm 8.6 | MNA | 129 (30.7) | 143 (34.0) | Moderate |
| Pitantanankune P, 2019 ⁶⁰ | CSS | Northeast | CD | 315 | Random from address | 70.5 | 60-69 =50.2% 70-79 =34.6% | BMI MNA | BMI 52 (16.5) MNA 6 (1.9) | MNA 113 (35.9) | Moderate |
| Pitisutthithum O, 2017 ⁶¹ | CSS | BMR | CD | 200 | Face to face interview at park | 50 | 72.3 \pm 8 | MNA | 0 | 21 (10.5) | Low |
| Pokakul W, 2002 ⁶² | CSS | NW | CD | 4753 | Multi-stage sampling | 63 | 60-69 =50.2%, 70-79 =35.1%, >79 =15.2% | BMI MNA | BMI 802 (16.9) MNA 217 (4.5) | MNA 1996 (42.0) | Low |
| Pongpaew P, 2000 ⁶³ | CSS | BMR | CD | 384 | Volunteered from informal social activity group | 85.7 | median 67 (95%CI 67-68) | BMI | 6 (1.6) | | Moderate |
| Prukka S, 2018 ⁶⁴ | CSS | Northeast | CD | 281 | Random selection from 1 municipality | 53.4 | 71.7 \pm 8.1 | BMI | 3 (1.0) | | Moderate |

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|--|---------------|-----------|------------|-----|---|------------|------------------------------|--|---|--|--------------|
| Reodecha P, 2004 ⁶⁵ | PCS | BMR | IP | 190 | General surgical and urological wards for major abdominal surgery, cancer 40% | 55 | 69 \pm 7.1 | MNA-SF NRC MST NRS Albumin | Albumin 44 (23.7) NRC 88 (46.3) MST 62 (32.6) NRS 101 (53.2) | MNA-SF 67 (35.2) NRC 88 (46.3) MST 62 (32.6) NRS 101 (53.2) | Low |
| Saijan N, 2018 ⁶⁶ Samnieng P, 2011 ⁶⁷ | CSS | Northeast | OP | 120 | COPD clinic | 19.2 | 71 \pm 8.2 | MNA | 4 (3.3) | 38 (31.7) | Low |
| | CSS | Northern | CD | 612 | 19 community health centers | 74.2 | 68.8 \pm 5.9 | MNA | 47 (7.7) | 411 (67.2) | Low |
| Saritsiri S, 2020 ⁶⁸ | CSS | BMR | OP | 445 | Geriatric clinic | 66.1 | 69.0 \pm 7.0 | BMI MNA | BMI 22 (4.9) MNA 10 (2.4) | MNA 80 (18.9) | Moderate |
| Seeraksa L, 2016 ⁶⁹ | CSS | Northern | CD | 88 | Random from urban and rural area, selected dysphagia patients | 65.5 | 78.3 \pm 8.4 | BMI Tricep skin fold | BMI 31 (35.2) Tricep 29 (32.0) | | Low |
| Seingyai R, 2019 ⁷⁰ | CSS | Western | CD | 231 | 1 rural community center | 66.2 | 69.0 \pm 8.1 | BMI | 15 (6.5) | | Low |
| Singkaew N, 2001 ⁷¹ | CSS | Northern | CD | 53 | 1 rural community, check-up | 62.3 | 69.32 | BMI | 7 (13.2) | | Moderate |
| Sommongkol S, 2017 ⁷² | CSS | Northeast | IP | 94 | Urgent abdominal surgery patients | 55.3 | 60-69 =54.3% | BMI NRS 2002 | BMI 22 (23.4) | NRS 87 (92.6) | Moderate |
| Sonkitdee S, 2010 ⁷³ | CSS | BMR | CD | 240 | Thai-Raman in 1 urban village | 59.2 | 60-69 =45% 70-79 =42.1% | BMI MNA | BMI 27 (11.2) MNA 5 (2.1) | MNA 51(21.2) | Moderate |
| Sripirom W, 2011 ⁷⁴ | CSS | Northern | CD | 39 | Elder club | 69.2 | 71.8 \pm 8.4 | MNA Albumin | MNA 20 (51.3) Albumin 0 (48.7) | MNA 19 (48.7) | Low |
| Srisawat M, 2012 ⁷⁵ | CSS | Central | IP | 265 | Medical, surgery and orthopaedics wards | 55.5 | 69.8 \pm 6.6 | BMI Albumin, Hb, Hct, NRC | BMI 23 (8.7) Albumin 53 (30.6) Hb 89 (33.6) Hct 90 (33.9) | NRC 202 (76.2) | High |
| Srisilapanan P, 2003 ⁷⁶ | CSS | Northern | CD | 623 | 3 senior day centers in metropolitan area | 62.1 | 60-67 =54.7% 68-74 =45.3% | BMI < 20 kg/m ² | 183 (29.4%) | | Low |
| Srisura S, 2009 ⁷⁷ | CSS | Northeast | CD | 301 | 1 municipality | 78.1 | 65.5 \pm 3.7 | BMI | 33 (11.0) | | Low |

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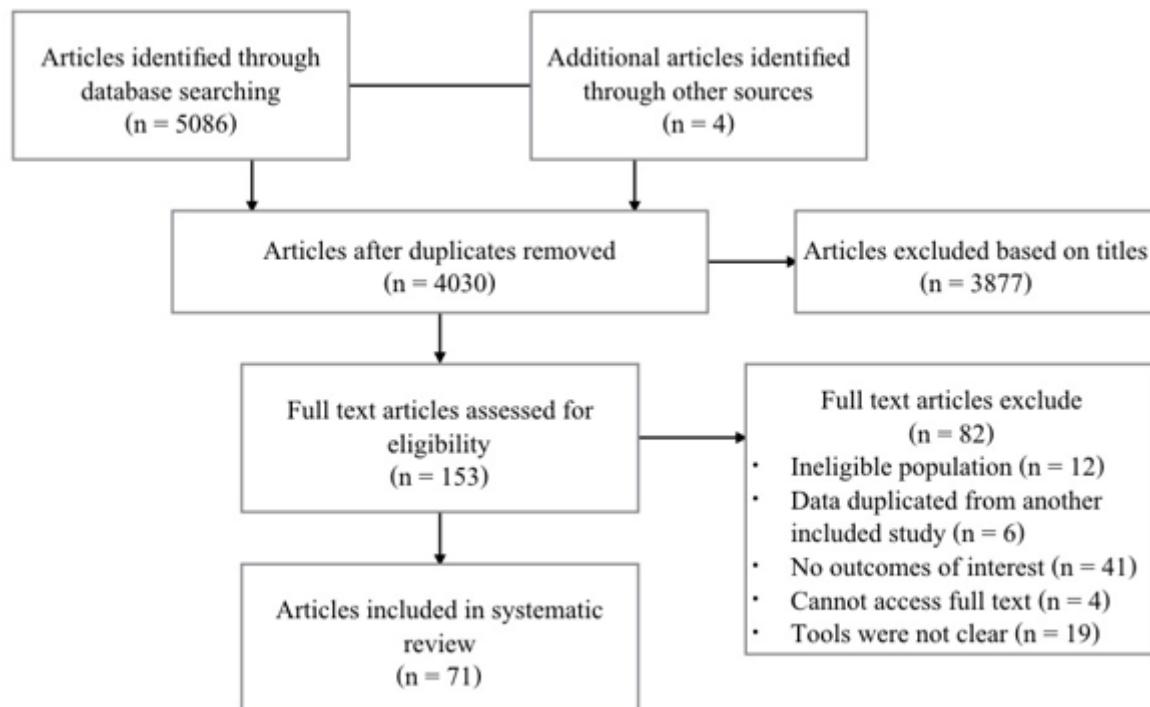
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|---|---------------|-----------|------------|------|--|------------|--|------------------------------|--|-----------------------------------|--------------|
| Sriwichian T, 2016 ⁷⁸ | CSS | Central | CD | 183 | 1 community center | NA | 60-69 = 48% 70-79 = 38.9% | BMI MNA MNA-SF | BMI 12 (6.6) MNA 4 (2.1) | MNA-SF 53 (29.0) MNA 36 (19.6) | Moderate |
| Suwittawat C, 2011 ⁷⁹ | CSS | Northeast | IP | 87 | Special nursing department | 41.4 | 60-69 = 74.7% | BMI | 28 (32.2) | | Low |
| Tachawacha-reekul N, 2008 ⁸⁰ | CSS | Northern | OP | 92 | Patients in denture project | 38 | 74.6 \pm 5.7 | BMI MNA | BMI 33 (35.9) MNA 4 (4.3) | MNA 46 (50.0) | Low |
| Tamthong K, 2003 ⁸¹ | CSS | Western | CD | 40 | 1 village | 57.5 | 60-79 = 65% 71-80 = 25% | BMI < 20 kg/m ² | 11(27.5) | | Moderate |
| Tanoi N, 2002 ⁸² | CSS | Northern | CD | 52 | 1 community center | 51.9 | 68.1 | BMI (by height and arm span) | BMI by height 16 (30.8) BMI by arm span 18 (34.6) | | Moderate |
| Tantranont N, 2015 ⁸³ | CSS | Northern | CD | 60 | 1 community center | 63.3 | 60-69 = 68.3% 70-79 = 25% | BMI | 8 (13.3) | | Low |
| Tengrungsun S, 2012 ⁸⁴ | CSS | BMR | CD | 426 | 1 municipality | 68.1 | male 67.4 \pm 6.2 female 67.3 \pm 6.3 | BMI | 28 (6.6) | | Moderate |
| Tengrungsun S, 2014 ⁸⁵ | CSS | BMR | CD | 909 | 1 municipality and 1 Subdistrict Administrative Organization | 53.9-64.8 | 68.3-69.8 | BMI | 21 (2.3) | | Moderate |
| Thiengham S, 2015 ⁸⁶ | CSS | Northeast | CD | 88 | Urban area | NA | 68.6 \pm 5.4 | BMI (height and Demiquet) | 5 (5.7) | | Low |
| Thinuan P, 2020 ⁸⁷ | CSS | Northern | CD | 1806 | Each 8 villages from suburban, semi-urban, and rural area | 70.5 | 70.7 \pm 7.5 | BMI CC MAC | BMI 5 (0.3) CC 545 (30.2) MAC 57 (3.2) | | Low |
| Tubtimtong P, 2019 ⁸⁸ | CSS | Northern | CD | 175 | Rural area in subdistrict | 45.1 | 66.5 \pm 6.2 | BMI MNA-SF | BMI 52 (29.7) MNA-SF 10 (5.7) | MNA-SF 86 (49.1) | Low |
| Wanaratna K, 2019 ⁸⁹ | CSS | Northwest | CD | 780 | Mobile medical unit for patients with osteoarthritis | 77.7 | 69.4 \pm 6.9 | MNA-SF | | 253 (32.4) | Low |
| Wannasiri T, 2009 ⁹⁰ | CSS | Western | CD | 100 | Elderly club | 85 | 65-74 = 66% 75-84 = 30% | BMI MNA MNA-SF | BMI 7(7) MNA 1(1) MNA 26(26) | MNA-SF 49(49) MNA 26(26) | Moderate |

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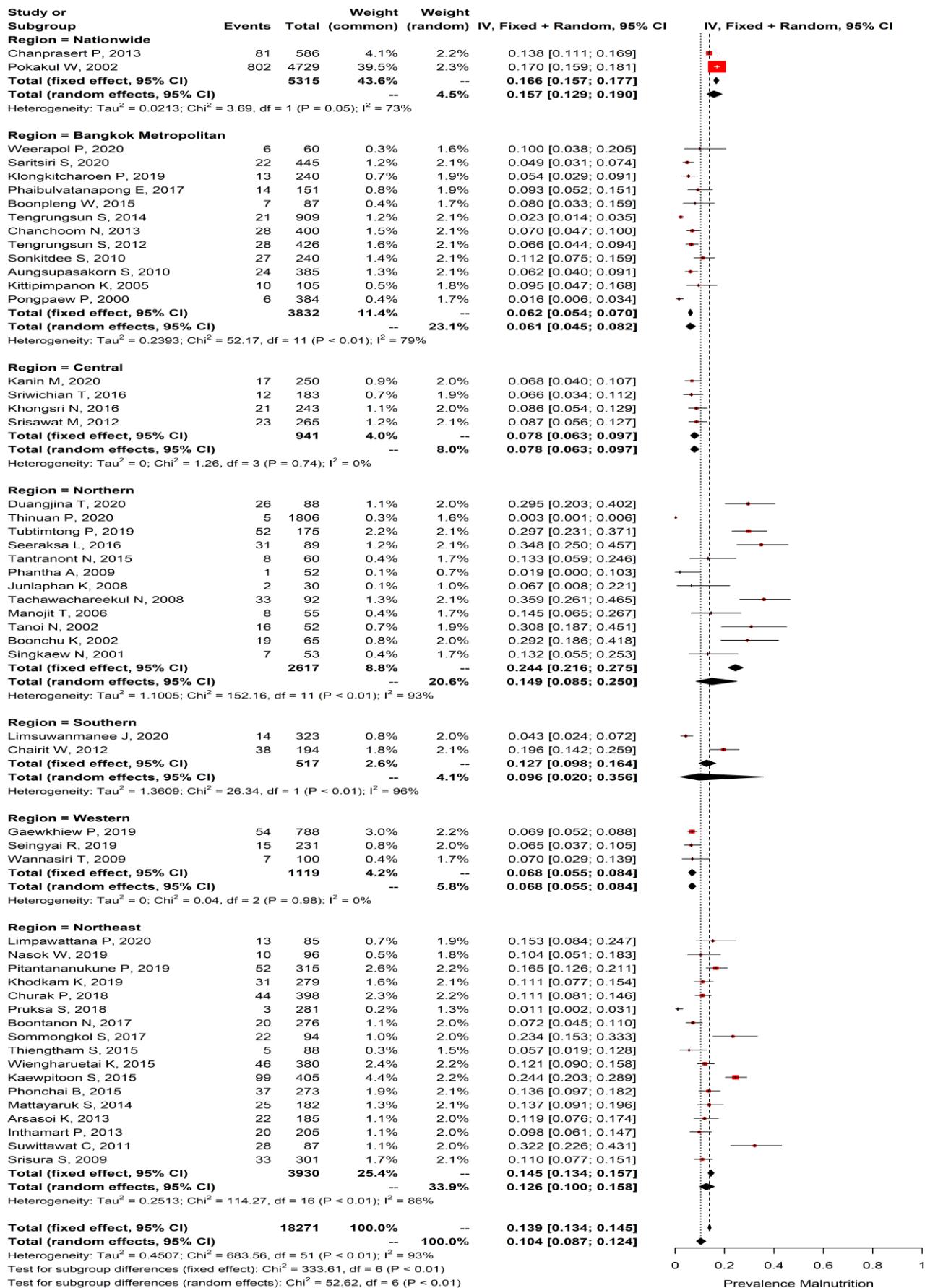
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| Wattanasaowalak P, 2017 ⁹¹ | PCS | Northern | IP | 78 | Cancer patients receiving chemotherapy CA breast 48.7%, CRC 42.3% | 75.4 | 67.4 \pm 6.3 | MNA-SF | 15 (19.2) | 44 (56.4) | Moderate |
| Weerapol P, 2020 ⁹² | CSS | BMR | OP | 60 | Mild cognitive impairment patients | 76.7 | 72.2 \pm 7.4 | BMI MNA | BMI 6(10) | MNA 15 (25) | Moderate |
| Wiengharuetai K, 2015 ⁹³ | CSS | Northeast | CD | 380 | Random from rural area | 75.3 | 64.0 \pm 3.2 | BMI MNA | BMI 46 (12.1) MNA 22 (5.8) | MNA 146 (38.4) | Moderate |

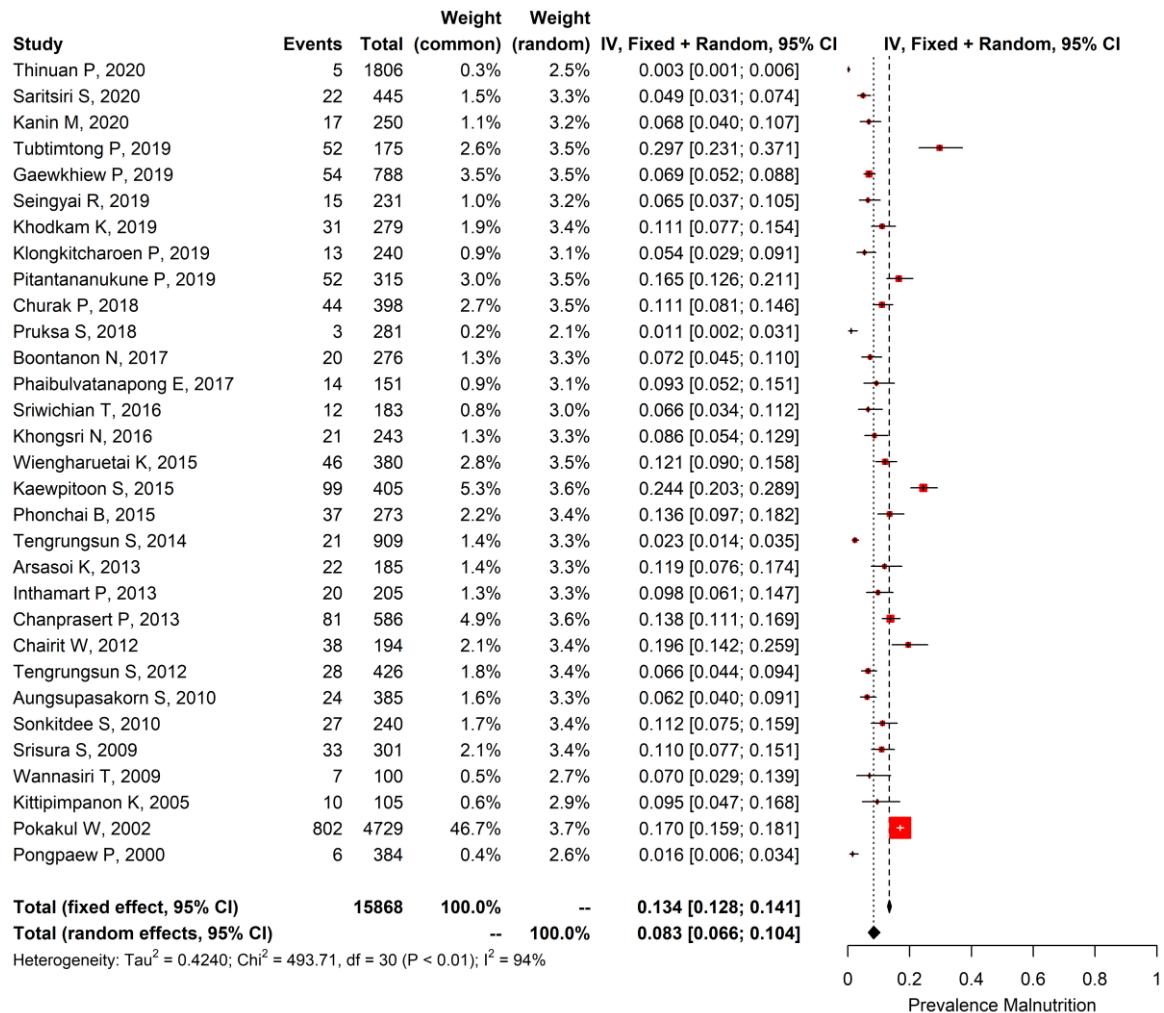
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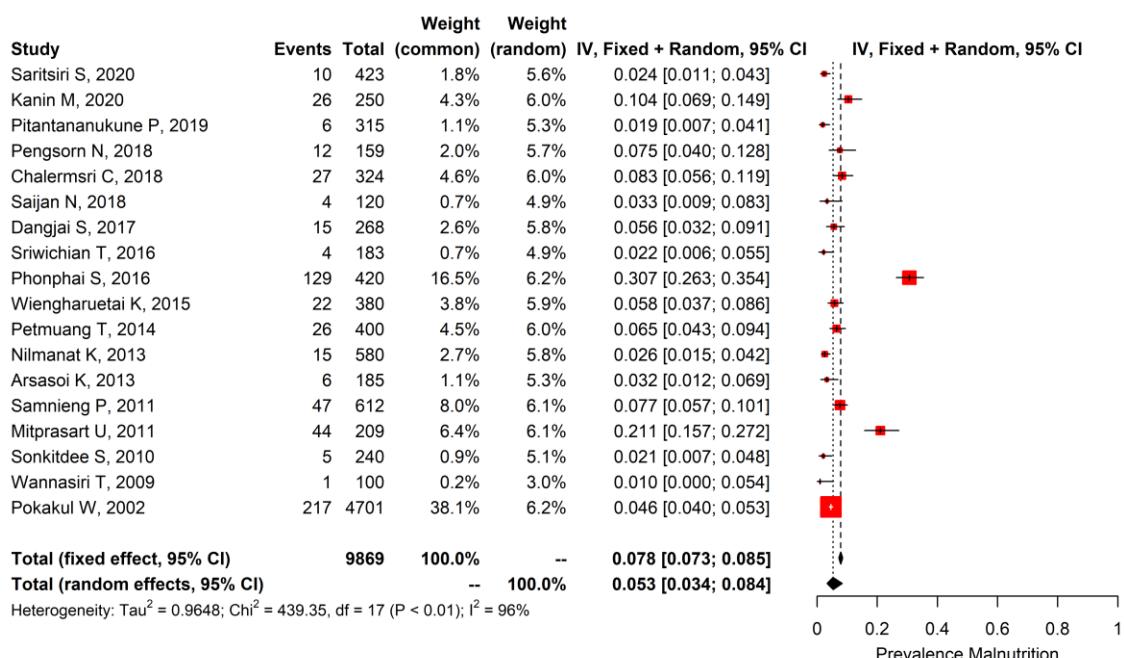
Supplementary figure 1. PRISMA flowchart for the article selection procedure.



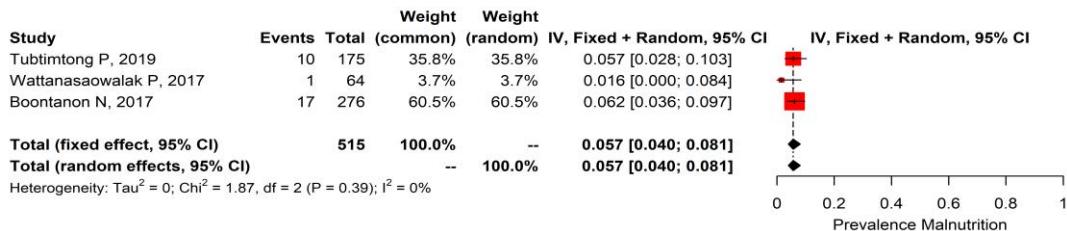
Supplementary figure 2. Meta-analysis forest plot of malnutrition in Thai older people by BMI, subgroup by region.



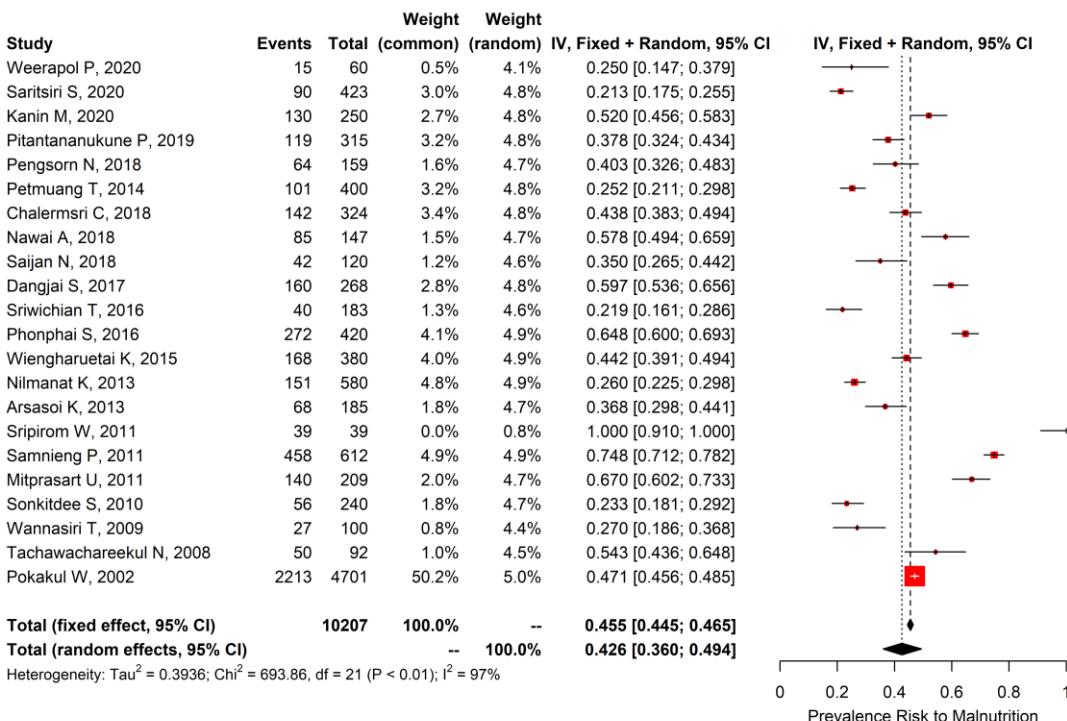
Supplementary figure 3. Sensitivity analysis of malnutrition by BMI exclude N<100 and high risk of bias.



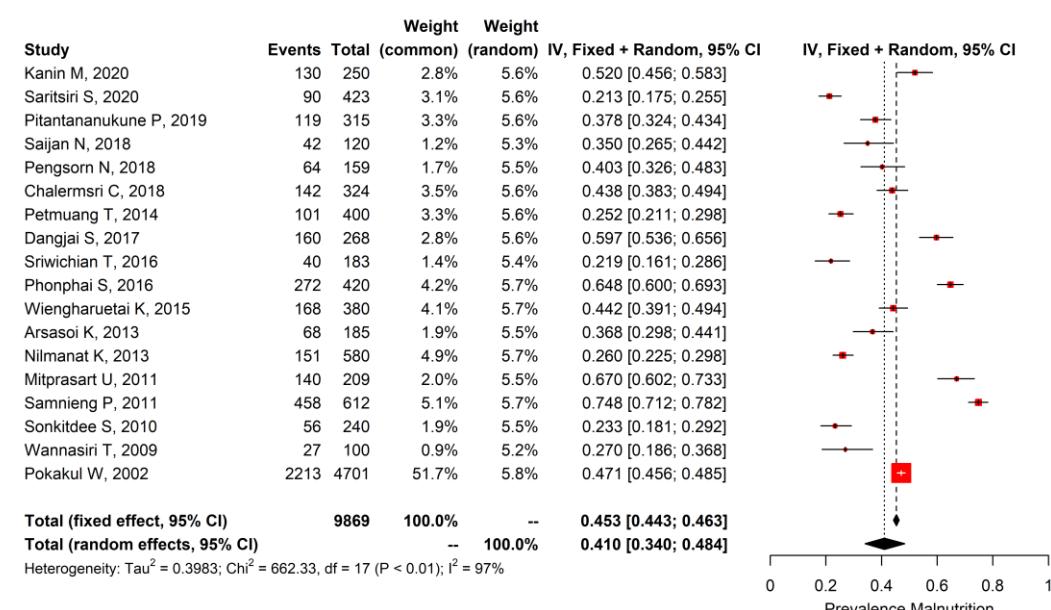
Supplementary figure 4. Sensitivity analysis of malnutrition by MNA exclude N<100 and high risk of bias



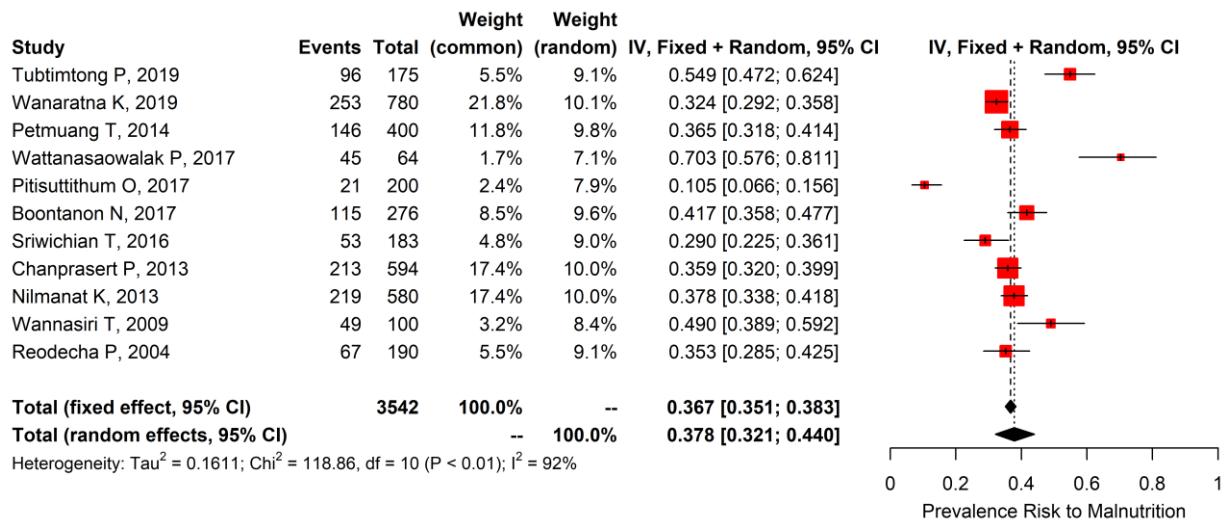
Supplementary figure 5. Forest plot of studies of malnutrition in older Thai people by MNA-SF.



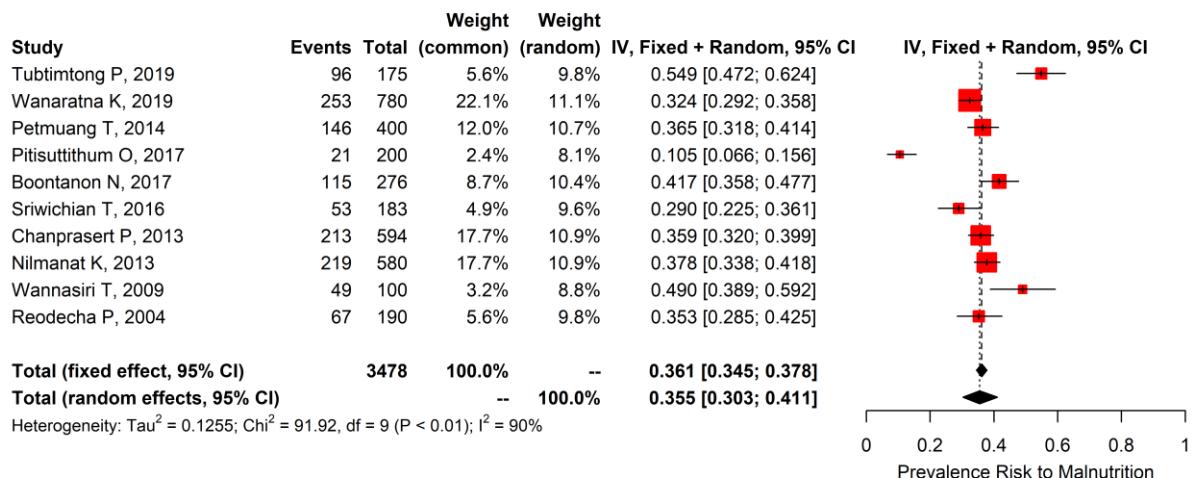
Supplementary figure 6. Forest plot of studies of at-risk of malnutrition in Thai older people by MNA.



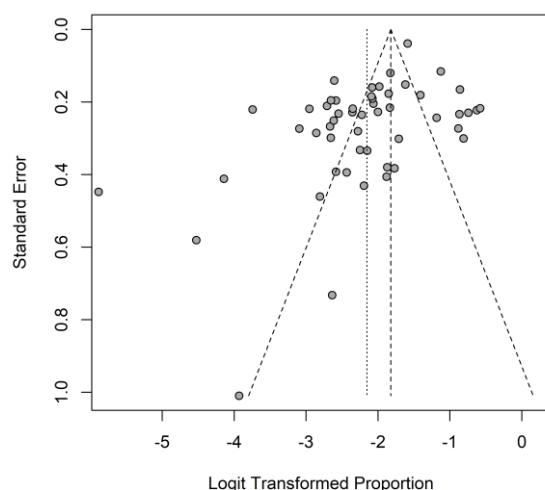
Supplementary figure 7. Sensitivity analysis of risk of malnutrition by MNA exclude N<100 and high risk of bias.



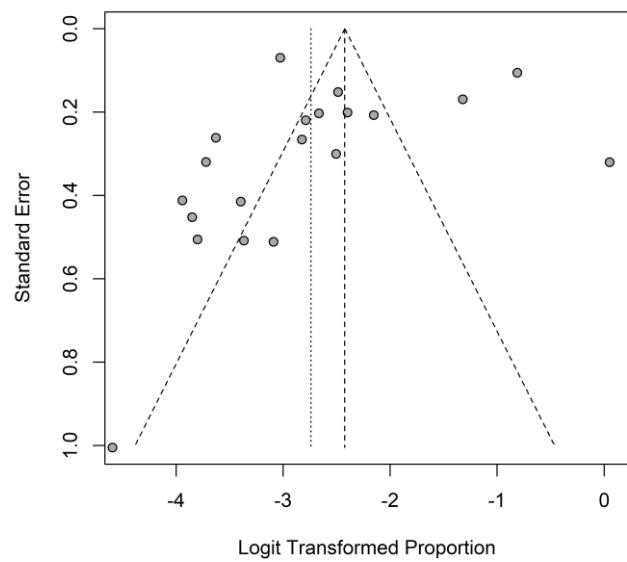
Supplementary figure 8. Forest plot of studies of the risk of malnutrition in Thai older people by MNA-SF.



Supplementary figure 9. Sensitivity analysis of risk of malnutrition by MNA-SF exclude N<100 and high risk of bias.



Supplementary figure 10. Funnel plot for publication bias by BMI.



Supplementary figure 11. Funnel plot for publication bias by MNA.