# Supplementary File

Supplement to: Rosaudyn R, Mutiani F, Yuliati I, Indraprasta BR. Prognostic role of neutrophil-to-lymphocyte ratio and fibrinogen levels according to the overall survival and progression-free survival in ovarian cancer: a meta-analysis and systematic review. Med J Indones. 2023;32(2):86−97. DOI:10.13181/mji.oa.236880

This file provides further information related to the study.

# Supplementary Information

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**Table S1.** Characteristic of high NLR and high plasma fibrinogen

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| --- | --- | --- |
| First author, year | Laboratory test data | High NLR or fibrinogen characteristic |
| n (%) | Age (years), median/mean/ratio (range/SD/n [%]) | CA125 U/ml, median/mean/ratio (range/SD/n [%]) | FIGO stage at diagnosis, n (%) | Histology, n (%) |
| NLR |  |  |  |  |  |  |
| Henriksen,1 2020 | Prior to treatment of recurrent disease | 35 (50.7) | 68 (47–92) | 487 (6–30.1) | NA | 1. HGSC: 31 (88)2. LGSOC: 1 (3)3. Endometrioid: 2 (6)4. Mucinous: 1 (3) |
| Marchetti,2 2021 | Prior to treatment | 201 (50.7) | 59.8 (30–85) | 1,973 (3,190) | 1. III: 138 (70.4)2. IV: 58 (29.6) | HGSOC |
| Asher,3 2011 | Prior to surgery | NA | 62 (24–90) | NA | NA | NA |
| Komura,4 2018 | Prior to primary surgery | 142 (41.3) | 1. <50: 58 (40.8)2. ≥50: 84 (59.2) | 1. <500: 68 (47.9)2. ≥500: 74 (52.1) | 1. I–II: 56 (39.4)2. III–IV: 86 (60.6) | 1. Serous: 59 (41.5)2. Clear cell: 33 (33.2)3. Endometrioid: 23 (16.2)4. Mucinous: 6 (4.2)5. Others: 21 (14.8) |
| Wang,5 2016 | Prior to primary surgery | 49 (34.3) | 1. ≤50: 21 (41.2)2. >50: 30 (58.8) | 1. ≤35: 5 (9.4)2. >35: 48 (90.5) | 1. I–II: 12 (22.6)2. III–IV: 41 (77.5) | 1. Epithelial: 45 (85)2. Non-epithelial: 8 (15) |
| Baert,6 2018 | Prior to primary treatment | 53 | NA | NA | NA | HGSOC |
| Miao,7 2016 | Prior to primary surgery | NA | NA | NA | NA | NA |
| Zhou,8 2018 | Prior to primary surgery | 190 (51.3) | NA | 1. <1,000: 124 (46.1)2. 1,000–5,000: 57 (66.3)3. >5,000: 9 (60) | IIIC | 1. Serous: 1232. Endometrioid: 233. Mucinous: 23. Clear cell: 34. Adenocarcinoma, not otherwise specified: 39 |
| Badora-Rybicka,9 2016 | Prior to chemotherapy | NA | NA | NA | NA | NA |
| Salman,10 2020 | Prior to NACT | 33 (29.7) | 67.0 (11.1) | 2,306 (3,596) | 1. IIIC: 27 (81.8)2. IV: 6 (18.8) | 1. Papillary serous: 19 (57.6)2. Endometrioid: (-)3. Other: 1 (3)4. Unknown: 13 (39.4) |
| Jeerakornpassawat,11 2020 | Prior to initial treatment | 152 (49.7) | NA | 1. <365 IU/l: 572. ≥365 IU/l: 95 | 1. I/II: 49 (32.2)2. III/IV: 103 (67.7) | 1. Serous: 73 (49.0)2. Non-serous: 79 (51.0) |
| Cho,12 2009 | Prior to surgery, but there were 8 patients was recurrence disease | NA | NA | NA | NA | NA |
| Feng,13 2016 | Prior to primary surgery | 440 (50.3) | 1. <56: 234 (53.2)2. ≥56: 206 (46.8) | 1. <500: 53 (12.1)2. ≥500: 375 (85.2) | 1. I/II: 20 (4.5)2. III/IV: 420 (95.5) | HGSOC |
| Wang,14 2014 | Prior to primary surgery | 31 (24.6) | 1. ≤50: 15 (48.4%)2. >50: 16 (51.6%) | 1. ≤35: 2 (6.45%)2. >35: 29 (93.5%) | 1. I/II: 3 (9.7%)2. III/IV: 28 (90.3%) | 1. Serous ovarian cancer2. Low grade: 9 (29%)3. High grade: 22 (71%) |
| Li,15 2017 | Prior to primary surgery | 111 (32.4) | NA | NA | NA | High grade serous ovarian cancer |
| Kim,16 2019 | Prior to NACT | NA | 1. ≤65: 72 (76.6)2. >65: 22 (23.4) | 1. ≤2,000: 49 (52.1)2. ≥2,000: 44 (46.8)3. Missing: 1 (1.1) | NA | Advanced epithelial ovarian cancer |
| John-Olabode,17 2021 | Prior to primary treatment | 1. OS: 45 (48.4)2. PFS: 38 (40.8) | NA | NA | NA | NA |
| Williams,18 2014 | Prior to primary treatment (surgery for pelvic mass and after diagnosis was made) | NA | NA | NA | NA | NA |
| Fibrinogen |  |  |  |  |  |  |
| Qiu,19 2012 | Prior to primary surgery | 49 (36) | 1. <50: 23 (47)2. ≥50: 26 (53) | 1. ≤500: 24 (49)2. >500: 25 (51) | 1. I: 6 (12.2)2. II: 4 (8.1)3. III: 36 (73.5)4. IV: 3 (6.1) | 1. Serous: 29 (59.2)2. Mucous: 2 (4.1)3. Other: 18 (36.7) |
| Li,20 2017 | Prior to primary surgery | 82 (44.1) | 60.0 (52.1–67.3) | 600 (20.6.2–1,754.1) | 1. I/II: 11 (13.4)2. III/IV: 71 (86.6) | 1. Epithelial ovarian cancer2. Low: 19 (23.2)3. Middle/high: 63 (76.8) |
| Polterauer,21 2009 | Prior to surgery | NA | NA | NA | NA | Epithelial ovarian cancer (not classified) |
| Hu,22 2020 | Prior to treatment | 29 (27.9) | 1. ≤55: 12 (41.4)2. >55: 17 (58.6) | NA | 1. I/II: 7 (24.1)2. III/IV: 22 (75.9) | 1. Serous: 23 (79.3)2. Non-serous: 6 (20.7) |
| Feng,23 2016 | Prior to surgery | 332 (45.9) | 1. <56: 177 (53.3)2. ≥56: 155 (46.7) | 1. <500: 53 (16)2. >500: 272 (84) | 1. I/II: 12 (3.6)2. III/IV: 320 (96.4) | HGSOC |
| Zhang,242015 | Prior to surgery | NA | NA | NA | NA | NA |
| Man,25 2015 | Prior to treatment | 80 (42.11) | 1. ≤55: 342. >55: 46 | NA | 1. I/II: 292. III/IV: 51 | 1. Serous: 412. Non-serous: 39 |
| Liu,26 2015 | Prior to primary surgery | 46 (36.8) | NA | NA | NA | Serous ovarian cancer |
| Luo,27 2017 | Prior to treatment | NA | NA | 4,442.5 | Advanced stage | Epithelial ovarian cancer (not classified) |

FIGO=The International Federation of Gynecology and Obstetrics; HGSC=high-grade serous carcinoma; HGSOC=high-grade serous ovarian cancer; LGSOC=low-grade serous ovarian cancer; NA=not available; NACT=neoadjuvant chemotherapy; NLR=neutrophil-to-lymphocyte ratio; OS=overall survival; PFS=progression-free survival; SD=standard deviation



**Figure S1.** Forest plots showing HR of OS in multivariate analysis for NLR in subgroup analysis based on treatment specific including surgery. CI=confidence interval; HR=hazard ratio; NLR=neutrophil-to-lymphocyte ratio; OS=overall survival; SE=standard error



**Figure S2.** Forest plots showing HR of PFS in multivariate analysis for NLR in subgroup analysis based on treatment specific including surgery. CI=confidence interval; HR=hazard ratio; NLR=neutrophil-to-lymphocyte ratio; PFS=progression-free survival; SE=standard error



**Figure S3.** Forest plots showing HR of OS in multivariate analysis for fibrinogen in subgroup analysis based on treatment specific including surgery. CI=confidence interval; HR=hazard ratio; OS=overall survival; SE=standard error



**Figure S4.** Forest plots showing HR of PFS in multivariate analysis for fibrinogen in subgroup analysis based on treatment specific including surgery. CI=confidence interval; HR=hazard ratio; PFS=progression-free survival; SE=standard error



**Figure S5**. Funnel plots of HR of NLR according to the OS in multivariate analyses (horizontal axis) and the SE for the HR (vertical axis). HR=hazard ratio; NLR=neutrophil-to-lymphocyte ratio; OS=overall survival; SE=standard error

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**Figure S6**. Funnel plots of HR of NLR according to the PFS in multivariate analyses (horizontal axis) and the SE for the HR (vertical axis). HR=hazard ratio; NLR=neutrophil-to-lymphocyte ratio; PFS=progression-free survival; SE=standard error



**Figure S7**. Funnel plots of HR of plasma fibrinogen according to the OS in multivariate analyses (horizontal axis) and the SE for the HR (vertical axis). HR=hazard ratio; NLR=neutrophil-to-lymphocyte ratio; OS=overall survival; SE=standard error

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