

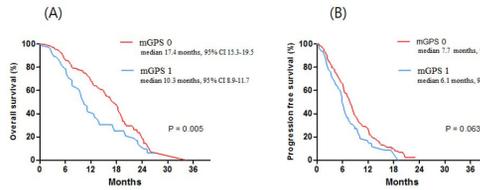
# Inflammation-based scores in patients with metastatic pancreatic cancer treated by nab-P/Gemcitabine

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**Background/Aims:** AG is standard first-line Chemotherapy for patients with mPC. However, prognostic factors for patients with mPC treated with AG are largely unknown. This retrospective analysis was performed to identify the prognostic factors including inflammation-based prognostic scores in mPC patients treated with AG as first-line treatment. **Methods:** A total of 203 patients with histologically confirmed recurrent (n=55) or metastatic (n=148) pancreatic cancer who were treated with first-line AG in Asan Medical Center, Seoul, Korea, between January 2013 and January 2018 were included in this analysis. As inflammation-based scores, baseline Neutrophil-lymphocyte ratio (NLR), Platelet-lymphocyte ratio (PLR) and modified Glasgow prognostic score (mGPS) were tested. **Results:** Median age was 62 years (range 32-82 years) and 116 patients(57%) were male. With median follow-up duration of 21.5 months (range 0.5-34.3 months), median progression-free survival (PFS) and overall survival (OS) in overall patients population were 7.1 (95% CI 6.20-7.99) and 15.1 (95% CI 12.59-17.61) months, respectively. In the multivariate analysis, PFS were significantly associated with High ECOG status (ECOG $\geq$ 1 vs.0: HR 2.09,  $p=0.048$ ), Liver metastasis (HR 1.43,  $p=0.032$ ), Distant lymph node metastasis (HR 1.48,  $p=0.019$ ), elevated CA19-9 (HR 1.07,  $p=0.020$ ). In multivariate analysis for OS, elevated CA19-9 (HR 1.75,  $p=0.008$ ), Liver metastasis (HR 1.76,  $p=0.001$ ), distant lymph node metastasis (HR 1.41,  $p=0.044$ ), high mGPS (mGPS $\geq$ 1 vs.0: HR 1.64,  $p=0.005$ ) were independent prognostic factors. NLR and PLR were not significantly associated with PFS and OS. **Conclusions:** Among the inflammation based prognostic scores, mGPS might be the reliable prognostic indicator that could lead to stratification of survival outcomes in patients with recurrent or metastatic pancreatic cancer who received AG as the first-line chemotherapy.

| Characteristics                           | No./n(n=203)                     |
|---|----------------------------------|
| Age, median(range)                        | 62 (36 - 82)                     |
| Age                                       | ≤65 128 (62.1%)                  |
|   | >65 77 (37.9%)                   |
| Sex                                       | Male 116 (57.1%)                 |
|   | Female 87 (42.9%)                |
| Disease status at presentation            | Initially metastatic 148 (72.9%) |
|   | Recurrent 55 (27.1%)             |
| Eastern Cooperative Oncology Group (ECOG) | 0 or 1 185 (96.1%)               |
|   | ≥2 18 (8.9%)                     |
| Number of metastatic sites                | 0 or 1 122 (60.1%)               |
|   | ≥2 81 (39.9%)                    |
| Site of metastases                        | Liver 113 (55.7%)                |
|   | Peritoneum 70 (34.5%)            |
|   | Lung 38 (18.7%)                  |
|   | Bone 9 (4.4%)                    |
|   | Lymphnode 73 (36.0%)             |
| Modified glasgow prognostic score         | 0 137 (67.5%)                    |
|   | 1 19 (9.3%)                      |
|   | ≥2 47 (23.2%)                    |
| Neutrophil to lymphocyte ratio            | <median (2.26) 108 (52.2%)       |
|   | ≥median (2.26) 97 (47.8%)        |
| Platelet to lymphocyte ratio              | <median (40.1) 97 (47.8%)        |
|   | ≥median (40.1) 106 (52.2%)       |
| Baseline CA 19-9 level WNL                | >WNL 148 (72.9%)                 |
|   | ≤WNL 55 (27.1%)                  |
| Primary pancreatic tumour site            | Head 83 (40.9%)                  |
|   | Body 36 (17.7%)                  |
|   | Tail 51 (25.1%)                  |
|   | Multi-centric 33 (16.3%)         |

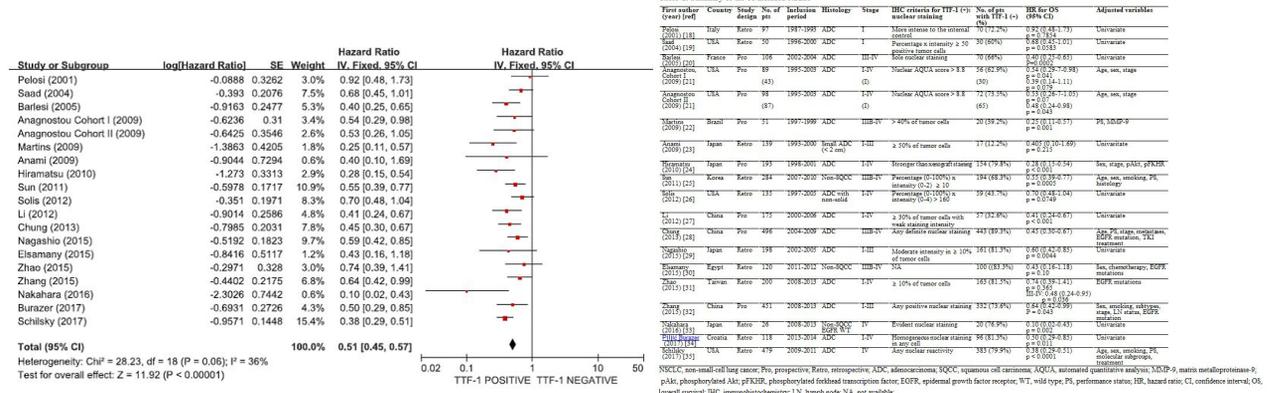


# Prognostic impact of TTF-1 in non-squamous non-small-cell lung cancer

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**Background/Aims:** Thyroid transcription factor-1 (TTF-1) is overexpressed in up to 90% of primary lung adenocarcinoma while negative for almost all squamous cell carcinomas. TTF-1 expression has been investigated as a prognostic factor in non-small-cell lung cancer (NSCLC) with conflicting results. **Methods:** We conducted this meta-analysis to gain a better insight into the prognostic role of TTF-1 in patients only with non-squamous (non-SQ) NSCLC. A systematic computerized search of the electronic databases including PubMed, EMBASE, Google scholar, and Cochrane Library (up to March 2018) was performed. **Results:** From 18 studies, 3,505 patients were included in the combined analysis of hazard ratios (HRs) with 95% confidence intervals (CIs) for overall survival. Compared with patients with non-SQ NSCLC showing negative TTF-1 expression, those with tumors harboring TTF-1 overexpression showed significantly better survival (HR=0.51, 95% CI: 0.45-0.57,  $p<0.00001$ ). Subgroup analyses revealed that TTF-1 expression significantly correlated with a better prognosis in stage I (HR=0.65, 95% CI: 0.48-0.87,  $p=0.004$ ) as well as stage III-IV non-SQ NSCLC (HR=0.42, 95% CI: 0.36-0.50,  $p<0.00001$ ). **Conclusions:** In conclusion, our meta-analysis demonstrates that TTF-1 overexpression is a favorable prognostic factor in patients with non-SQ NSCLC. The subgroup analysis indicates that TTF-1 is a good prognostic marker for survival not only in early-stage but also in advanced non-SQ NSCLC.



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