

# Angka tahan hidup pasien kanker paru kelompok bukan sel kecil non skuamosa yang mendapat terapi target Epidermal Growth Factor Receptor-Tyrosin Kinase Inhibitor dan yang mendapat kemoterapi lini pertama di Rumah Sakit Persahabatan = The survival rate of non squamous by non small cell lung carcinoma patients who are given by target therapy Epidermal Growth Factor Receptor-Tyrosin Kinase Inhibitors and those given by first line kemotheraphy treatment at Persahabatan Hospital

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## Abstrak

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Pendahuluan. Kanker paru jenis karsinoma bukan sel kecil (KPKBSK) terdiri dari nonskuamosa dan skuamosa. Kanker paru jenis karsinoma bukan sel kecil nonskuamosa adalah adenokarsinoma dan karsinoma sel besar. Saat ini terapi kanker paru sangat berkembang dari agen kemoterapi sampai terapi target terutama EGFR-TKI. Penelitian ini bertujuan untuk menilai angka tahan hidup pasien KPKSBK nonskuamosa yang mendapat kemoterapi lini pertama dibandingkan terapi EGFR-TKI di RSUP Persahabatan.

Metode. Penelitian ini adalah penelitian retrospektif antara tahun 2010 sampai 2013 dari rekam medis pasien KPKBSK non skumosa yang mendapatkan kemoterapi lini pertama dan EGFR-TKI. Pasien dikemoterapi dengan platinum baseddan EGFR-TKI diterapi gefitinib 1x250 mg/hari atau erlotinib 1x150 mg/hari. Angka tahan hidup dinilai dari mulai tegak diagnosis sampai pasien meninggal atau saat penelitian dihentikan.

Hasil. Dari 96 sampel KPKBSK non skuamosa terdiri dari 48 pasien yang mendapat kemoterapi lini pertama dan 48 pasien yang diterapi EGFR-TKI. Berdasarkan karakteristik pasien, usia terbanyak adalah 40-60 tahun (kemoterapi 32 (66,7%) dan EGFR-TKI 31 (64,6%) dengan jenis kelamin laki-laki yang mendominasi (kemoterapi 25(52,1%), EGFR-TKI 27 (56,2%). Pasien merokok yang mendapat kemoterapi lini pertama 41,7% dan EGFR-TKI 56,3% dengan IB terbanyak untuk kemoterapi (IB ringan 27,1%) dan untuk EGFR-TKI (IB sedang 22,9%). Jenis histologi adenokarsinoma 95,8% dengan dominasi stage IV 89,6% (kemoterapi 91,7% dan EGFR-TKI 87,5%) disertai tampilan status 2 59,4%. Angka tahan hidup pasien (ATH) 6 bulan 74%, ATH 1 tahun 22,90% dan ATH 2 tahun 6,20%. Masa tengah tahan hidup (MTTH) pasien yang mendapat EGFR-TKI lebih lama sedikit dibandingkan yang mendapat kemoterapi lini pertama (263 hari versus 260 hari).

Kesimpulan. Masa tahan hidup 1 tahun pasien KPKBSK non skuamosa yang diterapi EGFR-TKI sedikit lebih lama dibandingkan kemoterapi lini pertama (263 hari vs 260 hari). Sedangkan ATH 1 tahun pasien kemoterapi lini pertama lebih besar dibandingkan EGFR-TKI (25% vs 20,8%). Faktor yang paling mempengaruhi angka tahan hidup adalah stage dengan nilai  $p < 0,05$ .

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Introduction. Lung cancer is the type of non-small cell carcinoma (NSCLC) consists of non-squamous and squamous. Non-small cell lung cancer of non squamous types consist of adenocarcinoma and large cell

carcinoma. Currently, lung cancer therapy is highly developed of chemotherapeutic agents to targeted therapy especially EGFR-TKI. This study aims to assess the survival rate of NSCLC patients of non-squamous type who receive first line chemotherapy and those who receive EGFR-TKI therapy at Persahabatan hospital.

**Methods.** This study is a retrospective study between 2010 to 2013 from the medical records of NSCLC patients of non-squamous type who receive first-line chemotherapy and those who receive EGFR-TKI. Patients with platinum-based chemotherapy and EGFR-TKI with gefitinib therapy 1x250 mg/day or erlotinib 1x150mg/day. Survival rate assessed from start to erect the diagnosis until the patient dies or when the study is discontinued.

**Result.** From 96 subject of NSCLC patients with non-squamous type consisted of 48 patients who receive first-line chemotherapy, and 48 patients are treated with EGFR-TKI. Based on the characteristics of the patients, most are 40-60 years old (chemotherapy 32 (66.7%) and EGFR-TKI 31 (64.6%) with the male gender that dominates (chemotherapy 25 (52.1%), EGFR-TKI 27 (56.2%). Smoking patients who received first-line chemotherapy are 41.7% and 56.3% of EGFR-TKIs with chemotherapy highest IB (mild IB 27.1%) and for EGFR-TKI (moderate IB are 22.9%). 95.8% of adenocarcinoma histology type with a predominance of stage IV 89.6% (91.7% for chemotherapy and EGFR-TKI 87.5%) with performance status 2 59.4%. Survival rate of patients are 74% for 6 months survival, 1 year survival rate is 22.90% and 2 years survival rate of 6.20%. Median period of survival rate in patients who receiving EGFR-TKI longer than they received first-line chemotherapy (263 days versus 260 days).

**Conclusion.** Median survival rate of non-squamous NSCLC that treated by EGFR-TKI is longer than first-line chemotherapy (263 days vs 260 days). Although 1 year survival rate first-line chemotherapy in patients is greater than EGFR-TKI (25% vs 20.8%). The factors that most influence the survival rate is stages with  $p$  value  $< 0.05$ .; **Introduction.** Lung cancer is the type of non-small cell carcinoma (NSCLC) consists of non-squamous and squamous. Non-small cell lung cancer of non squamous types consist of adenocarcinoma and large cell carcinoma. Currently, lung cancer therapy is highly developed of chemotherapeutic agents to targeted therapy especially EGFR-TKI. This study aims to assess the survival rate of NSCLC patients of non-squamous type who receive first line chemotherapy and those who receive EGFR-TKI therapy at Persahabatan hospital.

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