First-Third generation EGFR inhibitor combined with cytotoxic chemotherapy in elderly Patients with advanced lung adenocarcinom in routine clinical practice-results from A Subgroup Analysis

Ming-Wei Chen¹, An-Tai He², and YI Pei.³

¹Affiliation not available

²China Raditional Protection Research Institute Hospital, Tai Yuan City, ³Shan-Xi Bethune Hospital, Taiyuan City, Shanxi Province,

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Abstract

Abstract In this study, we investigated a the combination of osimertinib/ gefitinib/ erlotinib with cytotoxic chemotherapy for EGFR-mutated positive lung adenocarcinoma patients in long-term survival outcomes. Method We enrolled IIIb-IV stage lung adenocarcinoma patients, Patients receiving standard Osimertinib, Gefitinib,Erlotinip alone treatment and Osimertinib, Gefitinib and Erlotinip with cytotoxic chemotherapy were retrospectively reviewed. Result First generation Chemical-TKI therapy PFS vs First generation TKI therapy alone PFS.P<0.05.Mean Survival Time(MST)22.00 month VS 16.00.OS P<0.05. MST 32.00 month VS 28.00.Third generation Chemical-TKI therapy PFS vs Third generation TKI therapy alone PFS.P<0.001.MST 40.00 month VS 26.66. OS P<0.05.MST 48.00 month VS 36.00.First-Third generation Chemical-TKI therapy PFS vs First-Third generation TKI therapy alone PFS.P<0.001.(MST)28.00 month VS 17.00.OS P<0.001.MST 41,00 month.VS 29.00.Cox regression models showed a significant prognostic factors for OS were old age (55-69 years) (HR 0.49 [0.28–0.89], p<0.02) and gene mutation (Positive) (HR 0.15 [0.07–0.29], p<0.05), First add third generationTKI with chemical therapy (HR 0.56 [0.35–0.89], p<0.02). Conclusion The results obtained under real-life conditions add to our understanding of the benefits and risks of First-Third generation EGFR inhibitor combined with cytotoxic chemotherapy in routine clinical practice.

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