

Iressa is indicated for the first-line treatment of patients with metastatic NSCLC whose tumors have EGFR exon 19 deletions or exon 21 (L858R) substitution mutations.

## **Clinical trials:**

### **IPASS Trial (Phase III)**

**Pubmed:** <https://pubmed.ncbi.nlm.nih.gov/28885881/>

**Purpose:** Compare the efficacy and safety of gefitinib versus carboplatin/paclitaxel as first-line treatment in patients with advanced NSCLC who were never-smokers or former light smokers.

**Dates:** Conducted from 2004 to 2007.

**Results:** The IPASS trial showed that gefitinib was superior to carboplatin/paclitaxel in terms of progression-free survival (PFS) in never-smokers or former light smokers with advanced NSCLC, particularly those with EGFR mutations.

**Impact:** These results led to the approval of Iressa as a first-line treatment for NSCLC in patients with EGFR mutations.

### **WJTOG3405 Trial (Phase II)**

**Pubmed:** <https://pubmed.ncbi.nlm.nih.gov/20022809/>

**Purpose:** Evaluate the efficacy and safety of gefitinib in Japanese patients with NSCLC who had failed prior platinum-based chemotherapy.

**Dates:** Conducted in the early 2000s.

**Results:** The WJTOG3405 trial demonstrated significant tumor response rates and disease control rates with gefitinib in Japanese patients with NSCLC who had failed prior chemotherapy, particularly those with EGFR mutations.

**Impact:** These results supported the use of Iressa in Japanese patients with NSCLC who had failed prior chemotherapy.

### **IRESSA Survival Evaluation in Lung Cancer (ISEL) Trial (Phase III)**

**Pubmed:** <https://pubmed.ncbi.nlm.nih.gov/16257339/>

**Purpose:** Evaluate the efficacy and safety of gefitinib compared to placebo in patients with advanced NSCLC who had failed at least two prior chemotherapy regimens.

**Dates:** Conducted in the mid-2000s.

**Results:** The ISEL trial did not show a significant improvement in overall survival with gefitinib compared to placebo in patients with advanced NSCLC who had failed prior chemotherapy.

**Impact:** These results led to a change in the labeling for Iressa, restricting its use to patients with NSCLC who have EGFR mutations.