Abstract 338

A7471009: Updates for PFS and OS for Relevant EGFR Mutants Subsets

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Disclosures

- LPA: Pfizer, Roche, AZD, Boehringer, Clovis, BMS, MSD
- MJB: Pfizer, Roche, Boehringer-Ingelheim, AstraZeneca, Eli Lilly
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Rationale & Objectives

- Dacomitinib is an irreversible pan-HER TKI
- Encouraging activity has been seen in EGFR mutant lung cancer models
- Dacomitinib has yielded promising results in treatment-naïve patients with EGFR mu+ NSCLC (Study 1017)¹

N=45	RR: 75.6%
Median PFS: 18.2 months	Median OS: 40.2 months

Dacomitinib showed a favorable trend in efficacy when compared with erlotinib in patients with EGFR-mutant tumors previously treated with 1–2 chemotherapy regimens²

Rationale & Objectives

- The Phase 3 ARCHER 1009 study compared dacomitinib to erlotinib as 2/3L therapy for patients with advanced NSCLC
 - Tissue collection was mandatory to allow analysis of EGFR, KRAS, and other molecular features³
- A pre-planned subgroup analysis for patients with activating mutations [EGFR mu+ (del exon 19 and exon 21 substitution mutations)] was performed
- **Objective:** To describe the outcome of the EGFR mu+ patients treated with dacomitinib or erlotinib in the ARCHER 1009 trial

ARCHER 1009 Study Design



Stratifcation at baseline based on:

- Histology (adenocarcinoma vs. nonadenocarcinoma)
- Race (Asian vs. non-Asian and Indian sub-continent)
- ECOG PS 0-1 vs. 2
- Smoking status (never smoker, defined as ≤100 cigarettes, cigars, or pipes in lifetime vs. ever-smoker)

EGFR Mutant Subgroups

	Dacomitinib n (%)	Erlotinib n (%)	Total n (%)
EGFR mutant	47	44	91
Treated	46 (97.9)	44 (100)	90 (98.9)
Ongoing on treatment	10 (21.3)	7 (15.9)	17 (18.7)
Ongoing on study ¹	24 (51.1)	21 (47.7)	45 (49.5)
Activating mutant (exon 19 or 21)	37	39	76
Treated	36 (97.3)	39 (100)	75 (98.7)
Ongoing on treatment	9 (24.3)	6 (15.4)	15 (19.7)
Ongoing on study ¹	20 (54.1)	18 (46.2)	38 (50.0)

Data cut-off July 31, 2014

¹On study means either still on treatment or being followed for OS and/or AE

PFS for All EGFR Mutations (n=91)

Per independent review





*Unstratified

PFS per independent review was still NOT mature with 56% event rate

PFS for Activating EGFR Mutations in Exon 19 or 21 (n=76)



Per independent review

Per investigator's assessment

*Unstratified

PFS per independent review was still NOT mature with 56% event rate

OS for EGFR Mutations and Exon 19 and 21

Activating mutation in exon 19 or 21



EGFR mu

*Unstratified

OS was not mature with <50% deaths

Safety of Dacomitinib

- The KRAS-WT population and the EGFR mutation population had a similar toxicity profile to the overall patient population
 - The most common treatment-related AEs were:
 - Diarrhea, paronychia, stomatitis, rash, dry skin, decreased appetite, and dermatitis acneiform
 - The following were more frequent with dacomitinib:
 - Diarrhea, paronychia, stomatitis, and decreased appetite
 - The following were more frequent with erlotinib:
 - Rash and dermatitis acneiform

Most Frequent Treatment-related Adverse Events by MedDRA Preferred Term (or CLUSTERED Term) in Patients with Activating Mutation in Exon 19 or 21

AE preferred term	Dacomitinib (%)	Erlotinib (%)
Diarrhea	88.9	66.7
PARONYCHIA (CLUSTER)	58.3	38.5
Paronychia	55.6	33.3
STOMATITIS (CLUSTER)	52.8	46.2
Rash	50.0	66.7
Dry skin	33.3	30.8
Stomatitis	33.3	30.8
Decreased appetite	27.8	17.9
DERMATITIS ACNEIFORM (CLUSTER)	25.0	30.8
Dermatitis acneiform	22.2	28.2

DERMATITIS ACNEIFORM is any event having a PT of dermatitis acneiform, acne, acne pustular, acne conglobata, acne cystic or acne fulminans PARONYCHIA is any event having a PT of paronychia or nail disorder STOMATITIS is any event having a PT of stomatitis, mouth ulceration, glossodynia, glossitis, cheilitis, oral pain, oropharyngeal pain, oropharyngeal discomfort or mucosal inflammation

Summary

- The EGFR activating mutation in exon 19/21 subgroup (*n*=37 dacomitinib vs. *n*=39 erlotinib) appeared to have a favorable trend for dacomitinib in PFS
 - Mature PFS per investigator's assessment
 - mPFS: 13.4 vs. 10 months
 - HR=0.75 (95% CI: 0.44–1.28), 1-sided P=0.142
 - <u>Not mature</u> PFS per independent review
 - mPFS: 14.6 vs. 9.6 months
 - HR=0.71 (95% CI: 0.38–1.32), 1-sided P=0.136
- OS <u>not mature</u> for activating EGFR mutant in exon 19/21
 - mOS: 26.6 vs. 23.2 months
 - HR=0.80 (95% CI: 0.41–1.57), 1-sided P=0.256
- Further exploratory analysis of dacomitinib activity in EGFR activating mutation NSCLC (2nd/3rd line) is being reviewed for future presentation

Protocol DP312804 (A7471050) Study Design

Trial Design

Phase 3 Randomized, open-label, 1st line treatment of locally advanced or metastatic NSCLC with EGFR activating mutation(s) **Endpoints**

Primary: PFS as per blinded IRC review Ha: HR $\leq 0.667(50\%\uparrow)$ One-sided α =0.025 power =90%

Secondary: OS, OS_{30m}, PFS per INV, BOR, DR, PRO & PK **Study Sites**

Global (Asia, EU)

Stage IIIb/IV NSCLC with EGFR Activating Mutation(s)

- First line treatment
- •Stratification factors: race, mutation status

N = 440

