



CURRENT ROLE OF ADJUVANT TARGETED THERAPY IN NSCLC

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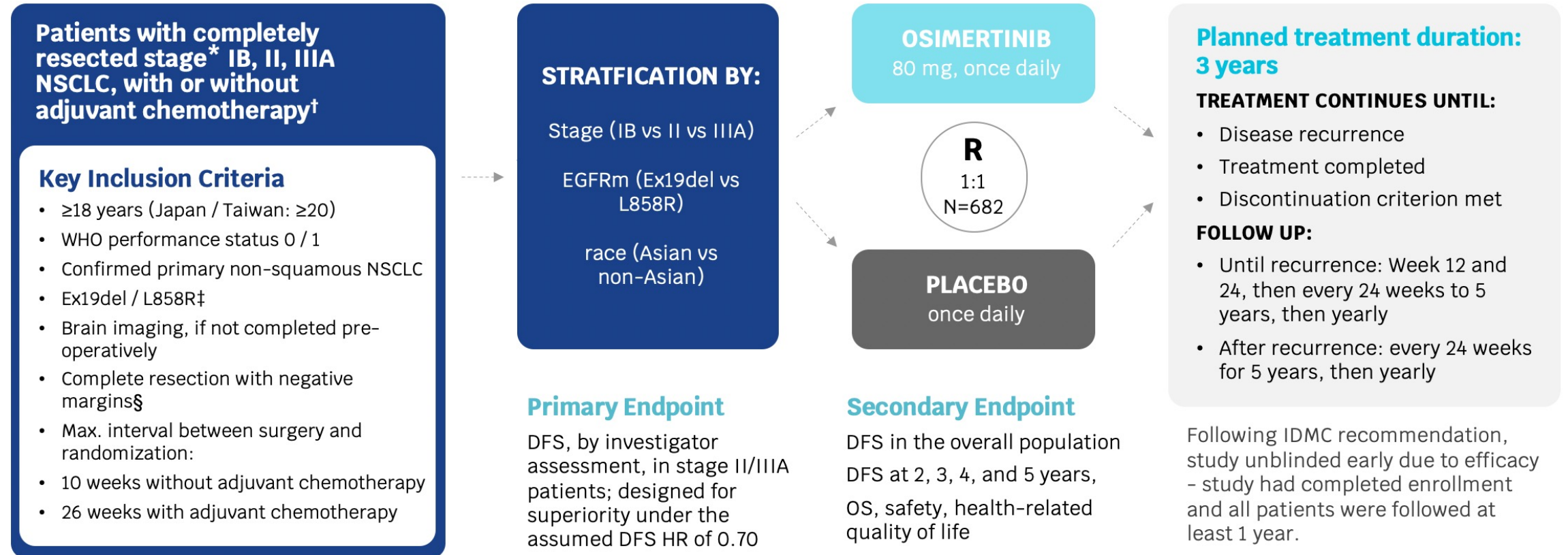


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The Blueprint: EGFR (del 19 and L858R)- ADAURA

Phase 3, Randomized, Double-blind, Placebo-controlled

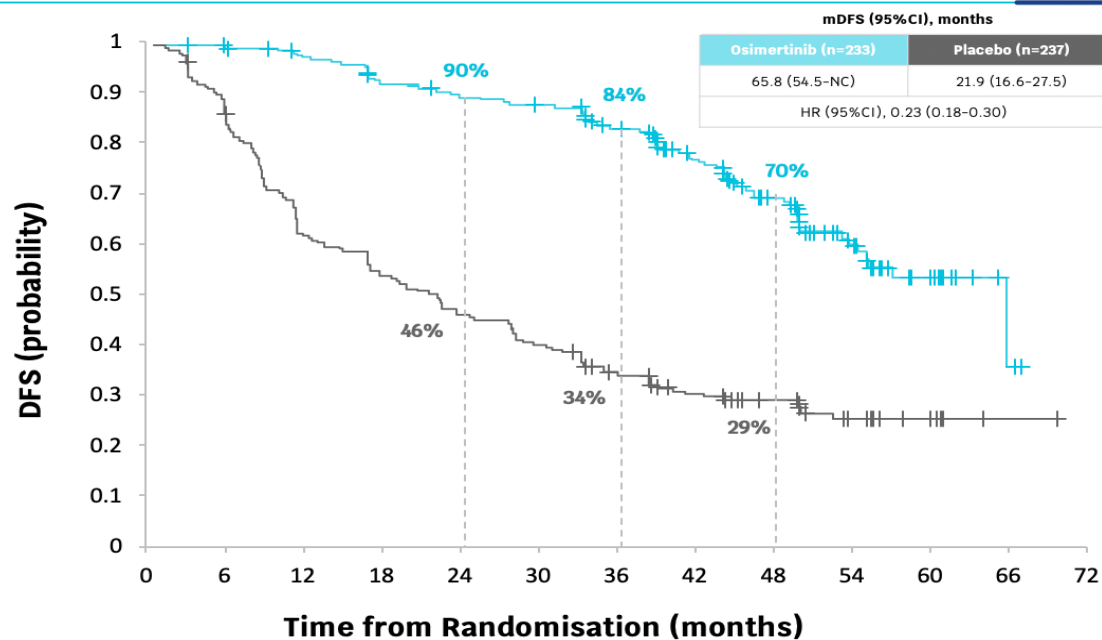


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The Blueprint: EGFR (del 19 and L858R)

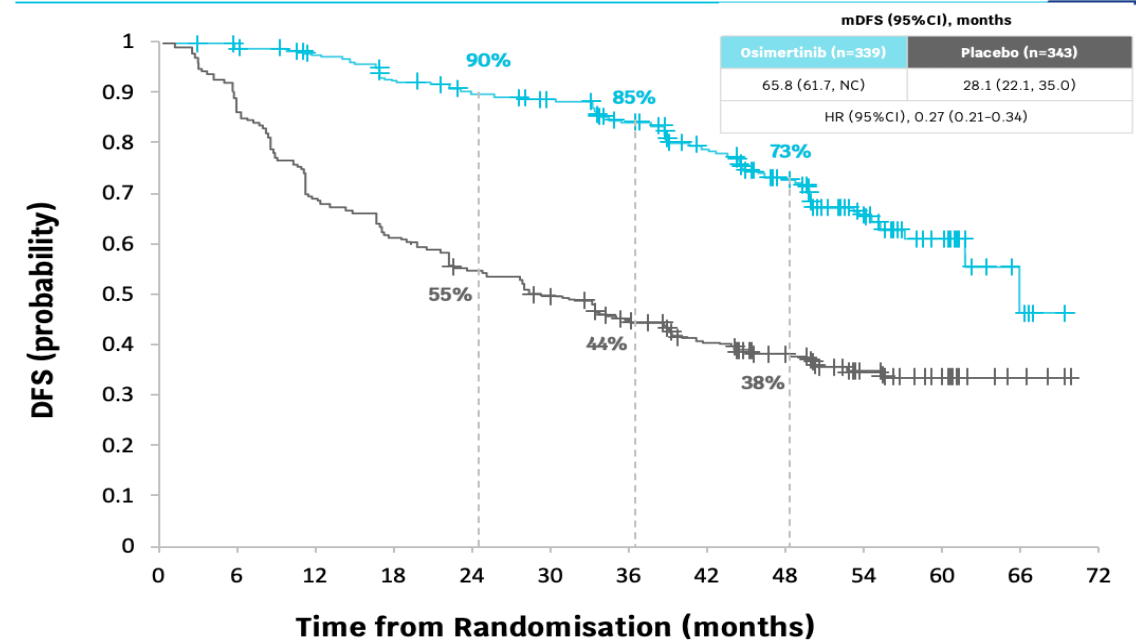
DFS in patients with stage II/IIIA disease and overall population: Stage IB/II/IIIA

II/IIIA Disease



No. at risk													
Osimertinib	233	222	216	202	196	192	174	138	90	45	20	2	0
Placebo	237	191	141	124	106	91	74	61	41	23	11	1	0

Overall Population: IB/II/IIIA Disease

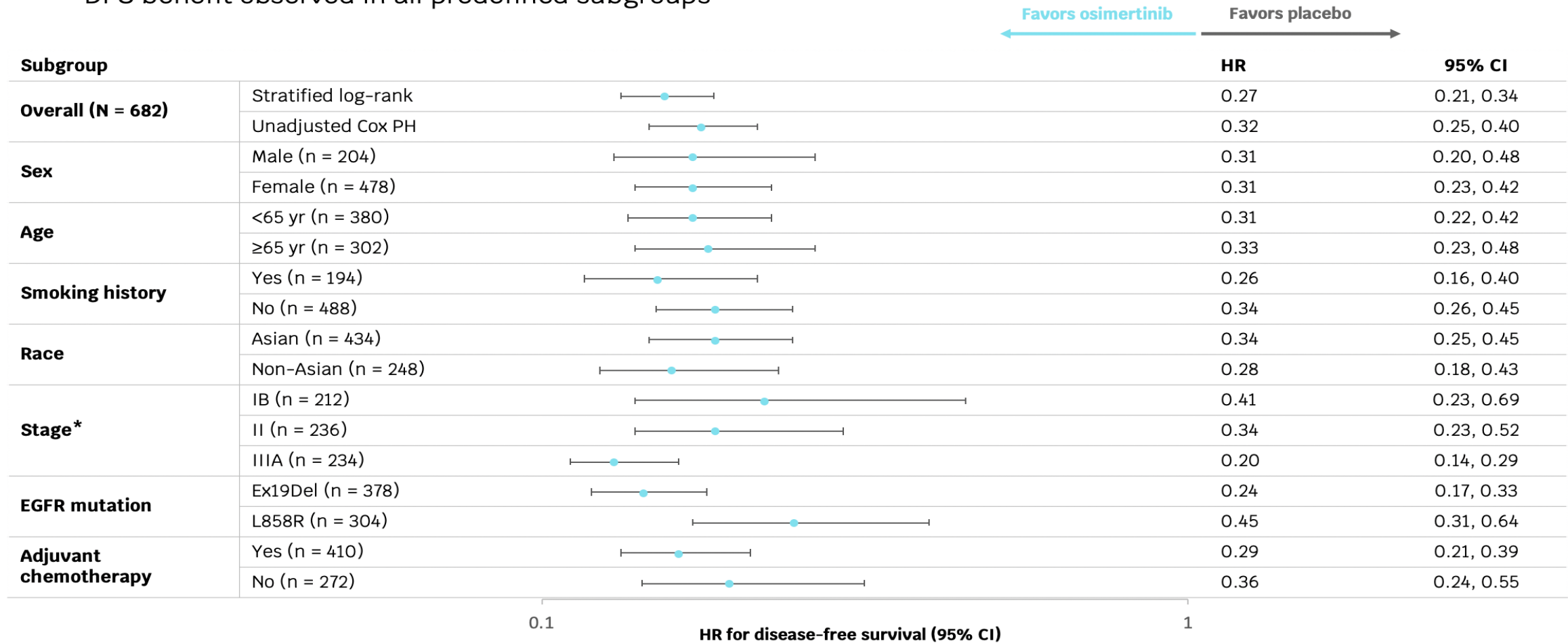


No. at risk													
Osimertinib	339	316	307	289	278	270	249	201	139	73	33	5	0
Placebo	343	288	230	205	181	162	137	115	84	48	25	4	0

Tsuboi, M. ESMO, Sept 2022

The Blueprint: EGFR (del 19 and L858R)

DFS benefit observed in all predefined subgroups



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Some of the Criticism Surrounding ADAURA

1) Staging evaluations could have been more robust

- PET, MRI Brain, Mediastinal Staging Evaluation were allowed but not mandated in study
- Did the trial design to mirror, “real world” practices bias in favor of understaging

2) Is DFS a fair and appropriate endpoint in the use of adjuvant therapies?

- Can circulating tumoral DNA and/or plasma evaluation help better stratify these outcomes in our future studies

3) How will use of EGFR blockade influence use of Adjuvant Chemotherapy?

4) COST??? TIMING???

EGFR Future Direction

- 1) **Duration:** Open label, single arm-phase II, multinational, multicenter study evaluating efficacy and safety of 5 years of Osimertinib in EGFRm NSCLC (stage II-IIB) following complete resection with or without adjuvant chemo
 - opened Feb 5, 2023
 - 180 planned patients
- 2) **Before surgery:** NeoAaura – phase III, randomized, 3 arm multinational, multicenter study of neoadjuvant Osimertinib as monotherapy or in combination with chemotherapy vs SOC chemotherapy in EGFRm resectable NSCLC
 - opened in Dec 2020
 - 328 planned patients
 - three arms (SOC chemo + placebo and SOC chemo + Osimertinib and Monotherapy)

ALK Fusions

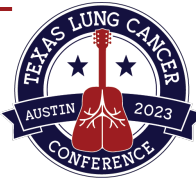
- 1) **Alchemist (E4512): Crizotinib vs Observation** (difficulty with recruiting last few patients- started in 2014) – 168 patients
- 2) **Alina:** Alectinib vs chemotherapy as adjuvant therapy in patients with Stage IB-IIIa resected disease (about to complete) – 257 patients
- 3) **Nautika1:** Phase II, neoadjuvant and adjuvant study of multiple therapies in biomarker-selected patients with resectable Stage Ib-III NSCLC
 - Opened Nov 6, 2020
 - Alk Cohort: 8 weeks of neoadjuvant alectinib before surgical resection. All patients who have PR or no radiographic progression will be eligible to 4 cycles of chemotherapy and up to 2 years of alectinib
 - Ros1 Cohort: 8 weeks of entrectinib neoadjuvant treatment before surgical resection. All patients who have PR or no radiographic progression will be eligible to 4 cycles of chemotherapy and up to 2 years of entrectinib
 - NTRK Cohort: 8 weeks of entrectinib neoadjuvant treatment before surgical resection. All patients who have PR or no radiographic progression will be eligible to 4 cycles of chemotherapy and up to 2 years of entrectinib
 - BRAF Cohort: 8 weeks of vemurafenib BID and cobimetinib neoadjuvant treatment before surgical resection. All patients who have PR or no radiographic progression will be eligible to 4 cycles of chemotherapy and up to 2 years of vemurafenib and cobimetinib
 - Ret Cohort: 8 weeks of neoadjuvant pralsetinib before surgical resection. All patients who have PR or no radiographic progression will be eligible to 4 cycles of chemotherapy and up to 2 years of pralsetinib

MET (skipping mutation as well as met amplification)

1) **Geometry- N:** Phase II of neoadjuvant and adjuvant capmatinib in NSCLC

- opened August 2022
- 38 patients
- two cohorts (Cohort A – NSCLC with Met exon 14 skipping and Cohort B – NSCLC with high met amp)
- 8 weeks of capmatinib BID in neoadjuvant setting prior to resection followed by 3 years of adjuvant capmatinib in adjuvant setting

RET



- 1) **Libretto 432**- phase III study of adjuvant selpercatinib vs placebo in stage IB-IIIa ret-fusion NSCLC
 - opened Dec 2021
 - 170 participants
 - 3 years of therapy and can receive SOC Chemotherapy
- 2) **Nautika1**- Ret arm with pralsetinib

Take Homes

- 1) Is the Standard of care now Next Generation Sequencing for All Patients with Stage Ib-III NSCLC- Tissue not plasma (they are all resected)**
 - These trials are partially neoadjuvant so please consider NGS on initial biopsy
- 2) There are clinical trials available for the many of the targets seen in NSCLC**
- 3) Our blueprint (EGFR) has demonstrated the clinical importance of finding these targets and please consider referring these patients to clinical trials**
- 4) This was not a complete list and developing trials are always underway. Please contact your thoracic oncology friends to see availability of trials for participation for your patients with actionable targets**