

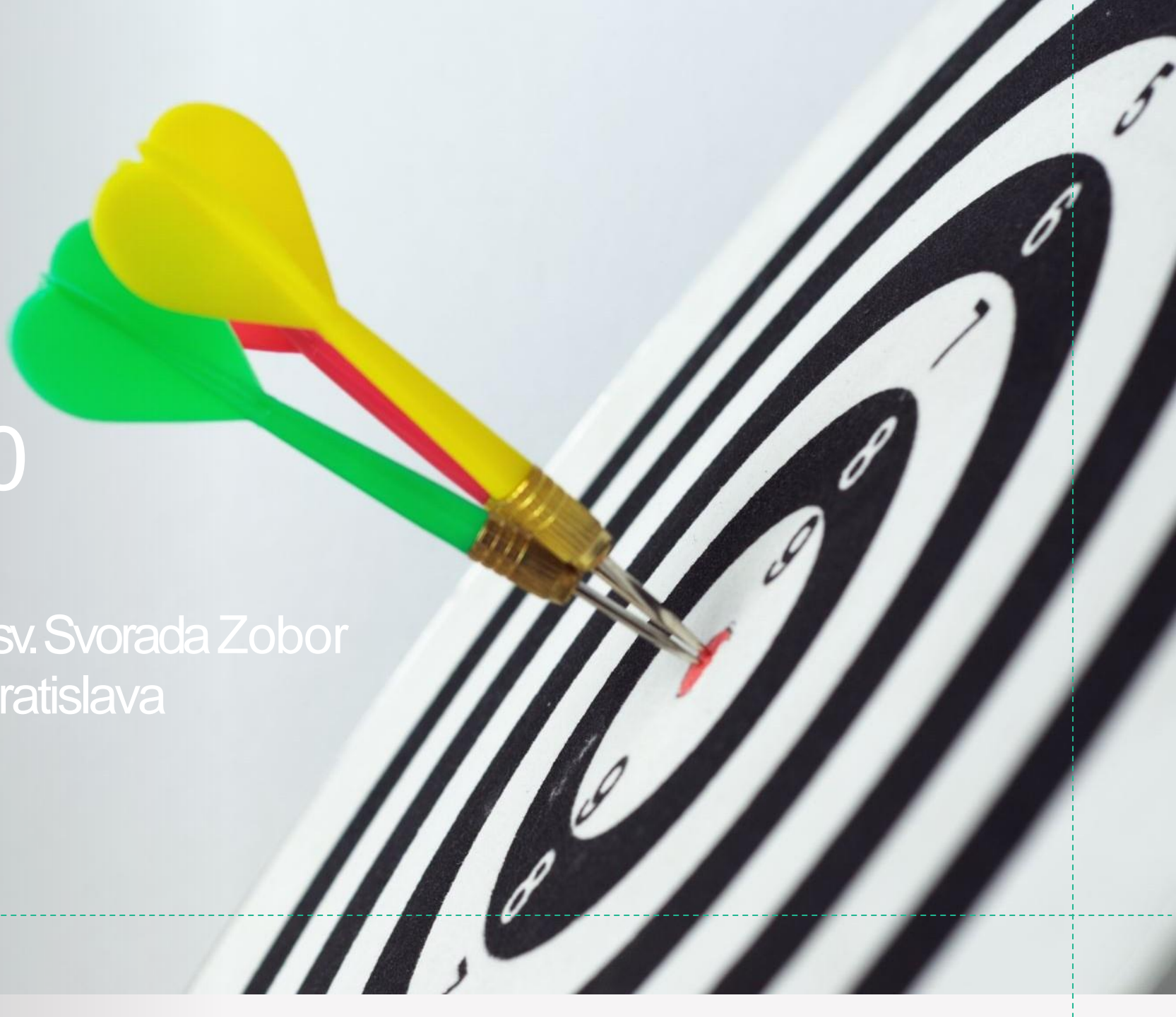
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Peter Beržinec

Špecializovaná nemocnica sv. Svorada Zobor

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Nitra



Vyhlásenie o konflikte záujmov autora

- Nemám potenciálny konflikt záujmov
- Deklarujem nasledujúci konflikt záujmov

| Forma finančného prepojenia | Spoločnosť |
|---|--|
| Participácia na klinických štúdiách/firemnom grante | Roche |
| Nepeňažné plnenie (v zmysle zákona) | Angelini, Boehringer Ingelheim, MSD, Pfizer, Roche |
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| Akcionár | |
| Konzultant/odborný poradca | MSD |
| Ostatné príjmy (špecifikovať) | |

Podľa UEMS (upravené v zmysle slovenskej legislatívy)

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Lung Cancer—Non-Small Cell Metastatic

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Showing 106 Presentations

Session Type: Poster Session

Track(s): Lung Cancer

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ASCO Virtual Annual Meeting
29-31 May 2020

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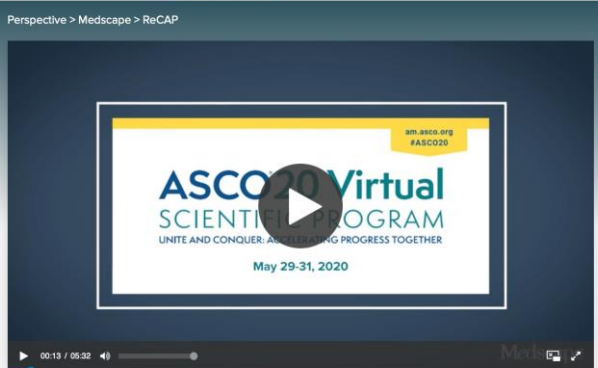


How I Manage CNS Metastases and Leptomeningeal Carcinomatosis in NSCLC
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ASCO 2020 Virtual Scientific Program

UNITE AND CONQUER. ACCELERATING PROGRESS TOGETHER

May 29-31, 2020

00:13 / 05:32

Highlights in Non-Small Cell Lung Cancer From ASCO 2020

Čo ma najviac zaujalo

1. Cieľená liečba - klinicky (veľmi) významné pokroky pri NSCLC
2. Duálna imunoterapia NSCLC (blokáda PD-1, PD-L1 + CTLA-4)

Registrované skupiny cielených liekov

EMA

- EGFR-TKI
- ALK-TKI
- ROS1-TKI
- BRAF-TKI
- NTRK-TKI

FDA

- EGFR-TKI
- ALK-TKI
- ROS1-TKI
- BRAF-TKI
- NTRK-TKI

MET-TKI

RET-TKI

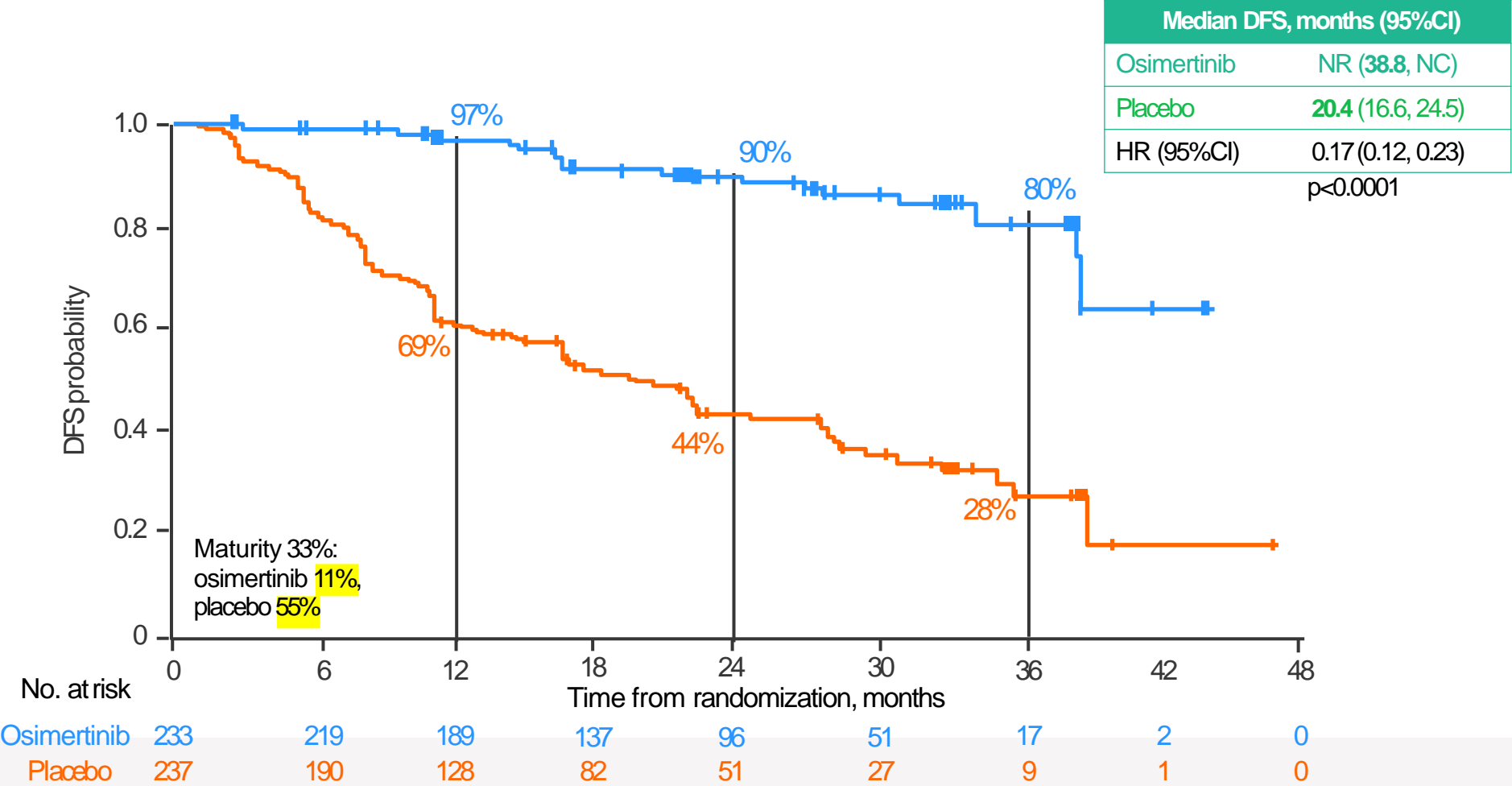
EGFR-TKI v adjuvantnej liečbe

| Štúdi a (cit.) | NSCLC | Rameno | N | DFS medián, mes. (95%CI) | HR (95%CI) | OS medián, mes. (95%CI) | HR (95%CI) |
|----------------------|---|-------------|-----|------------------------------|---|----------------------------|---|
| ADAUR A (1) | II - IIIA*, Ex19del, L858R ± adjuvantná cht | Osimertinib | 233 | NR (38,8 - NC) | 0,17 (0,12 - 0,23) p<0,0001 | NR | 0,40** (0,18 - 0,90) |
| | | Placebo | 237 | 20,4 (16,6 - 24,5) | | NR | |
| | IB - II- IIIA Ex19del, L858R ± adjuvantná cht | Osimertinib | 339 | NR (NC - NC) | 0,21 0,16 - 0,28 p<0,0001 | NR | NR |
| | | Placebo | 343 | 28,1 (22,1 - 35,8) | | NR | |
| CTONG 1104 (2) | II-III A, Ex19del, L858R | Gefitinib | 111 | 30,8 (26,7 - 36,6) | 0,56 (0,40 - 0,79) p = 0,001 | 75,5 (44,6 - NC) | 0,92 (0,62 - 1,36) p = 0,674 |
| | | Chemo VP | 111 | 19,8 (15,4 - 23,0) | | 62,8 (45,8 - NC) | |

*Primárny cieľ štúdie: DFS pri št. II - IIIA, **Nezrelé údaje, mortalita 5%

- Herbst RS, et al. J Clin Oncol 2020; 38(suppl):Abstr LBA5.
- WU YL, et al. J Clin Oncol 2020; 38(suppl):Abstr 9005.

ADAURA - DFS u pacientov so štádiom II/IIIA

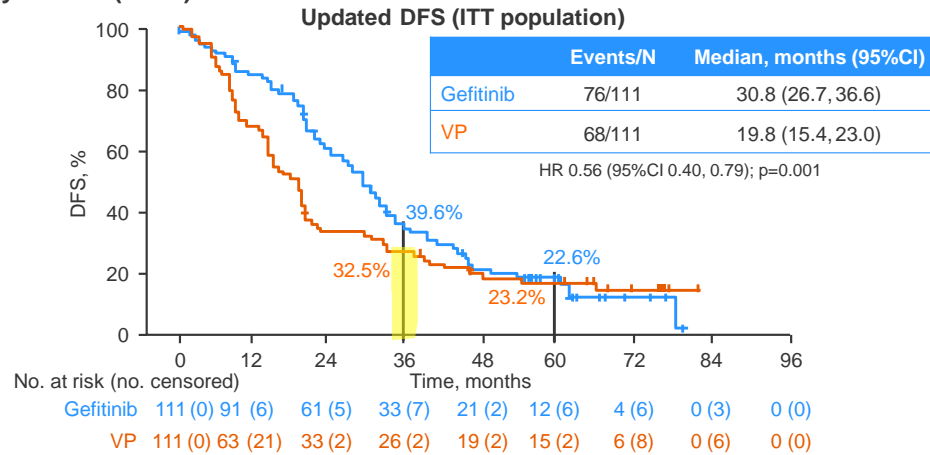


Herbst RS, et al. J Clin Oncol 2020;38(suppl):Abstr LBA5.
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DFS v CTONG -1104 av ADAURA

9005: CTONG1104: Adjuvant gefitinib versus chemotherapy for resected N1-N2 NSCLC with EGFR mutation—Final overall survival analysis of the randomized phase III trial 1 analysis of the randomized phase III trial – Wu Y-L, et al

• **Key results (cont.)**



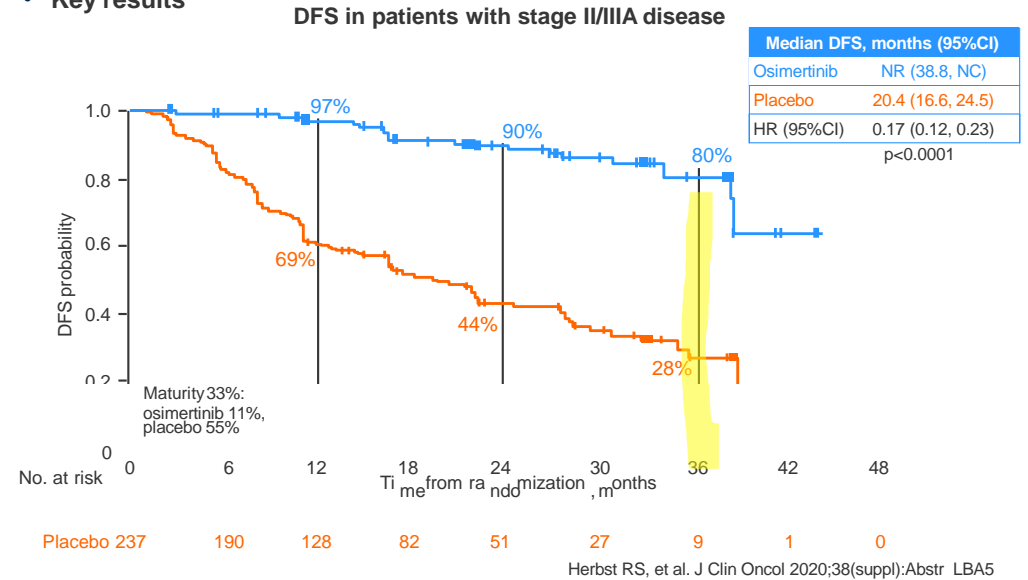
• **Conclusion**

– Inn gefitinib did not translate to a significant OS difference

Wu Y-L, et al. J Clin Oncol 2020;38(suppl):Abstr 9005

LBA5: Osimertinib as adjuvant therapy in patients (pts) with stage IB–IIIA EGFR mutation positive (EGFRm) NSCLC after complete tumor resection: ADAURA – Herbst RS, et al

• **Key results**



„What would I do if it were me or one of my family members?”

Despite “the questions that remain regarding survival and limited follow-up,
I would choose osimertinib.”

David Spigel, MD, FASCO

Director, Lung Cancer Research Program, Sarah Cannon Research Institute

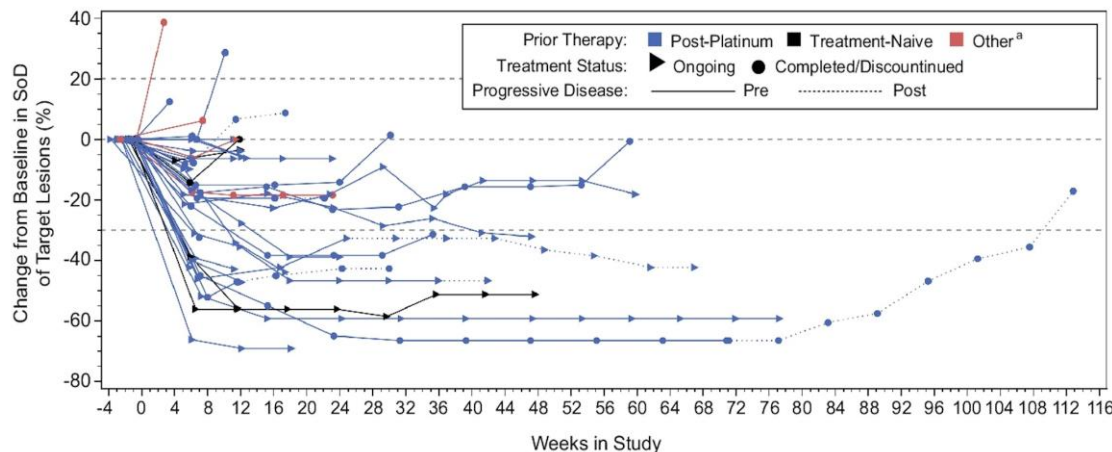
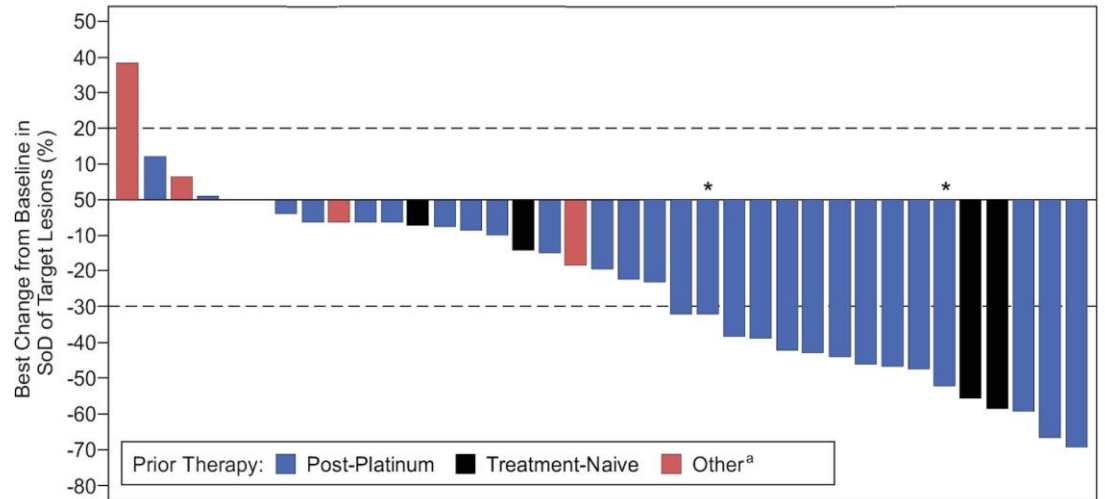
EGFRM+ NSCLC - inzercie v exóne 20

| Štúdia, fáza (cit.) | Liek | Línia liečby | N | ORR % (95%CI) | DCR (%) (95%CI) | PFSmedián, mes. (95%CI) |
|--------------------------|--------------------------|------------------------|-----|-----------------------------|------------------------------|--------------------------|
| ECOG-AGRIN 5162, II, (1) | Osimertinib ↑D: 160mg | 1. | 20 | 25 (NR) | 85 (NR) | 9,7 (4,1 - NA) |
| ZENITH20-1, II (2) | Poziotinib -ITT | 3. (medián) 2. - 9. | 115 | 14,8 (8,9 - 22,6) | 68,7 (59,4 - 77,0) | 4,2 (NR) |
| | -Evaluable | | 88 | 19,3 (11,7 - 29,1) | 80,7 (70,9 - 88,3) | 4,1 (3,7 - 5,5) |
| CHRYZALIS, I (3) | Amivantanab | 2. (medián) 1. - 8. | 39 | 36 (21 - 53) | 67%* | 8,3 (3,0 - 14,8) |

*Benefit z liečby - aspoň 12 týždňov trvajúca odpoveď alebo stabilizované ochorenie

1. Piotrovská Z, et al. J Clin Oncol 2020; 38(suppl):Abstr 9513.
2. Le X, et al. J Clin Oncol 2020; 38(suppl):Abstr 9514.
3. Park K, et al. J Clin Oncol 2020; 38(suppl):Abstr 9512.

Odpooved' na amivantanab v štúdií CHRYZALIS



Overall Response Rate:
Total 36% (95%CI: 21-53)
Post-platinum 41% (95%CI: 24 - 61)

Clinical benefit:
Total 67% (95%CI: 50-81)
Post-platinum 72% (95%CI: 53 - 87)

Median duration of response:
Total: 10 months (range: 1- 16)
Post-platinum: 7 months (1 -16)

MET-inhibítory

| Štúdia (cit.) | Liečba | MET | N | Línia liečby | ORR, % (95%CI) | DCR, % (95%CI) | PFSmedián, mes. (95%CI) |
|--------------------------|-------------|----------------------------|----|--------------|--------------------|--------------------|-------------------------|
| GEOMETRY mono-1 K 6 (1) | Capmatinib | <i>MET ex14-mut</i> | 31 | 2. | 48,4 (30,2 - 66,9) | 90,3 (74,2 - 98,0) | 8,11 (4,17 - 9,86) |
| GEOMETRY mono-1 K 1a (2) | Capmatinib | ↑ <i>MET</i> amplifikácia* | 69 | 2.-3. | 29 (18,7 - 41,2) | 71 (58,8 - 81,3) | 4,07 (2,86 - 4,83) |
| K 5a (2) | | | 15 | 1. | 40 (16,3 - 67,7) | 66,7 (38,4 - 88,2) | 4,17 (1,45 - 6,87) |
| NCT 02897479 | Savolitinib | <i>MET ex14-mut</i> | 70 | 1. - 2. | 42,9 (31,1 - 55,3) | 82,9 (71,2 - 90,8) | 6,9 |
| VISION Liquid biopsy | Tepotinib | <i>MET ex14-mut</i> | 66 | 1. - ≥2 | 44 (32 - 57) | 64 (51 - 75) | 8,5 (5,1 - 11,0) |
| Tissue biopsy | | | 60 | 1. - ≥2 | 47 (34 - 60) | 70 (57 - 81) | 11,0 (7,8 - 17,1) |

*GCN (gene copy number) ≥ 10

1. Groen HJM, et al. J Clin Oncol 2020; 38(suppl):Abstr 9520.
2. Wolf J, et al. J Clin Oncol 2020; 38(suppl):Abstr 9509.
3. Lu S, et al. J Clin Oncol 2020; 38(suppl):Abstr 9519.

RET-TKI pri pokročilom RET+ NSCLC

| Štúdi a (cit.) | Liek | Línia liečb y | N | ORR % (95%CI) | DOR, medián (mes.) (95%CI) | PFS, medián, mes. (95%CI) |
|----------------------|---------------|---------------------|-----|----------------------|-------------------------------|------------------------------|
| Libretto-001 | Selpercatinib | 2.* | 105 | 64 (54 - 73) | 18 (12 - NE) | 17 (14 - NE) |
| | | 1. | 39 | 85 (70 - 94) | NE (12 - NE) | NE (14 - NE) |
| ARROW | Pralsetinib | 2.* | 80 | 61 (50 - 72) | NE (11,3 - NE) | - |
| | | 1. | 26 | 73 (52 - 88) | | - |

+ Preukázaná aktivita pri MTS do CNS.

+ V ARROW aj kompletne odpovede : 5% po chemo s platinou, 12% v 1. línii.

*2. línia po chemo v kombinácii scisplatinou

Registrované možnosti IT pri pokročilom NSCLC

EMA

- 2.línia: anti PD1, anti PD-L1 monoterapia
- 1. línia: anti PD1 monoterapia
- 1. línia: anti PD-1, anti PDL1 a chemoterapia

FDA

- 2.línia: anti PD1, anti PD-L1 monoterapia
- 1. línia: anti PD1 monoterapia
- 1. línia: anti PD-1, anti PDL1 a chemoterapia

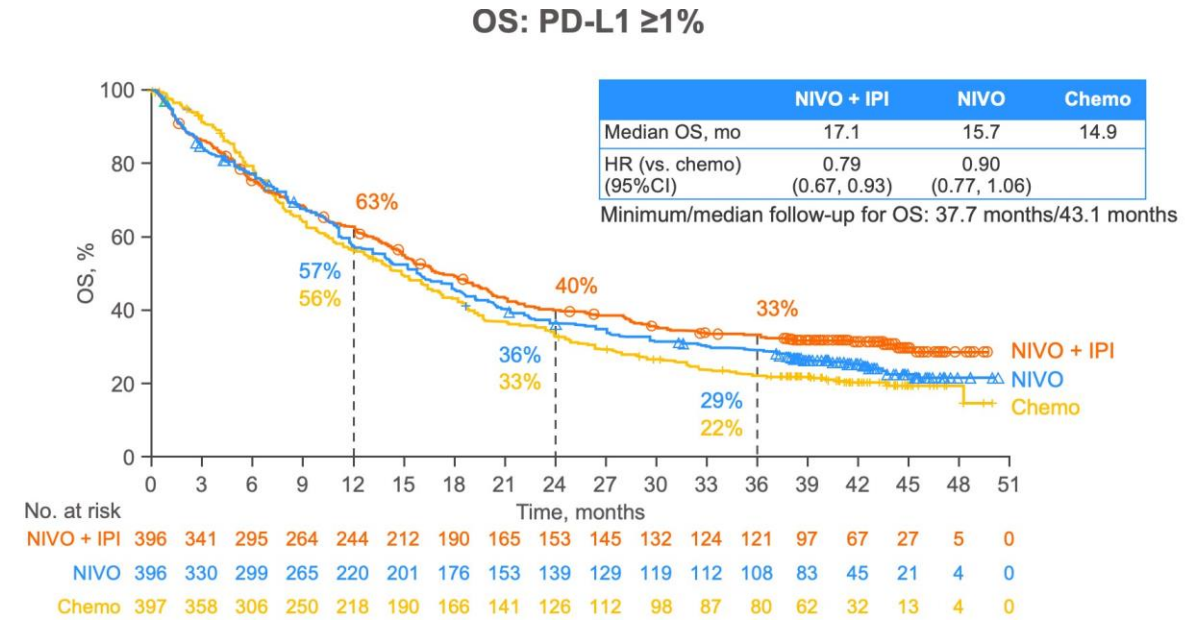
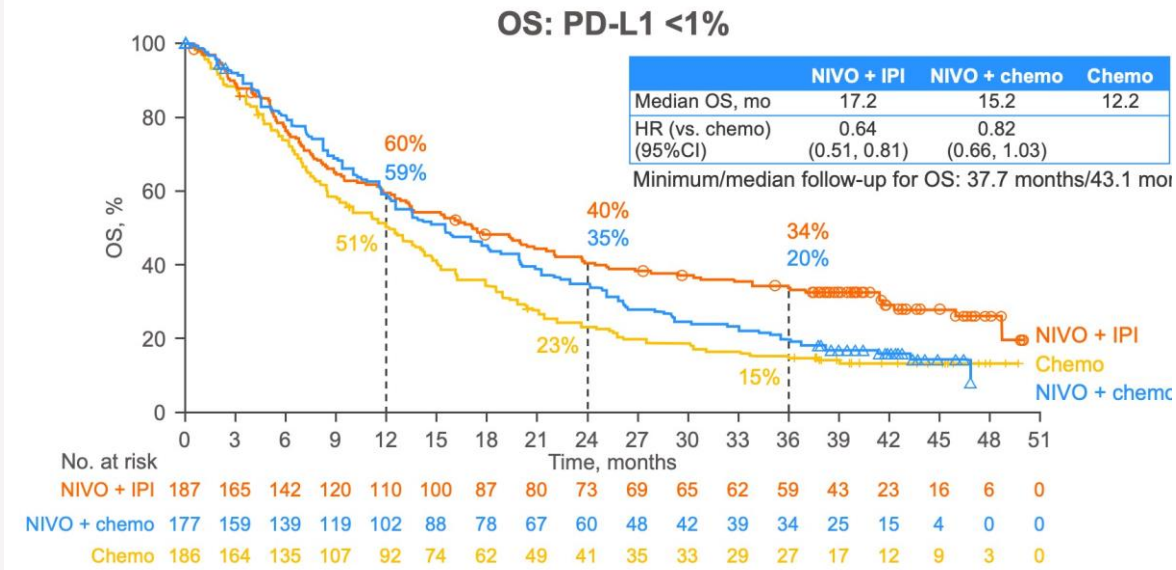
1. línia: anti PD-1+ anti CTLA-4

1. línia: chemo + anti PD-1+ anti CTLA-4

Nivolumab + ipilimumab pri pokročilom NSCLC

| CheckMate 227 | Rameno | N | ORR % | Medián DOR, mes. (95%CI) | Medián PFS, mes. | Medián OS, mes. | HR (95%CI) Nivo + Ipi vs chemo |
|---------------|-------------------|------------|-------------|---------------------------|------------------|-----------------|--------------------------------|
| PD-L1 ≥ 1% | Nivo + IPI | 396 | 36,4 | 23,2 (15,2 - 32,2) | 5,1 | 17,1 | 0,79 (0,67 - 0,93) |
| | Chemo | 397 | 30,2 | 6,7 (5,6 - 7,6) | 5,6 | 14,9 | |
| | Nivo | 396 | 27,5 | 15,5 (12,7 - 23,5) | 4,2 | 15,7 | |
| PD-L1 < 1% | Nivo + IPI | 187 | 27,3 | 18,0 (12,4 - 33,2) | 5,1 | 17,2 | 0,64 (0,51 - 0,81) |
| | Chemo | 186 | 23,1 | 4,8 (3,7 - 5,8) | 4,7 | 12,2 | |
| | Nivo + chemo | 177 | 37,9 | 8,3 (5,9 - 9,4) | 5,6 | 15,2 | |

OS v CheckMate 227



Obrázky : ETOP Slide Deck from ASCO© 2020.

http://www.etop-eu.org/index.php?option=com_content&view=article&id=115649:etop-slide-deck-from-2020-asco-annual-meeting-7&catid=13:news&Itemid=557

CheckMate 227 a EMA



EMA/CHMP/193977/2020
Committee for Medicinal Products for Human Use (CHMP)

Withdrawal assessment report

| | |
|---------------|------------|
| OPDIVO | nivolumab |
| Yervoy | ipilimumab |

Procedure No. EMEA/H/C/xxxx/WS/1372



28 February 2020
EMA/92336/2020
EMEA/H/C/WS/1372

Withdrawal of application to change the marketing authorisation for Opdivo (nivolumab) and Yervoy (ipilimumab)

Bristol-Myers Squibb Pharma EEIG withdrew its application for the use of Opdivo and Yervoy in the treatment of metastatic non-small cell lung cancer that has not been treated previously.

The company withdrew the application on 30 January 2020.

What are Opdivo and Yervoy and what are they used for?

Opdivo and Yervoy are cancer medicines. They contain the active substances nivolumab and ipilimumab, respectively.

Opdivo has been authorised in the EU since June 2015. It is already used on its own to treat non-small cell lung cancer in patients who have previously been treated with other cancer medicines. It is also used to treat the following other cancers: melanoma (a skin cancer), renal cell carcinoma (a kidney cancer), Hodgkin's lymphoma (a blood cancer), squamous cell cancer of the head and neck, and urothelial (bladder) cancer.

Yervoy has been authorised in the EU since July 2011. It is used to treat melanoma and renal cell carcinoma.

Further information on current uses of Opdivo and Yervoy can be found on the Agency's website: ema.europa.eu/medicines/human/EPAR/opdivo and ema.europa.eu/medicines/human/EPAR/yervoy.

What change had the company applied for?

The company applied for an extension of indication to add the use of Opdivo and Yervoy together in patients with previously untreated non-small cell lung cancer that has spread to other parts of the body (metastatic) and where the cancer does not have mutations (changes) in genes called EGFR and ALK.

Official address Domenico Scarlattilaan 6 • 1083 HS Amsterdam • The Netherlands
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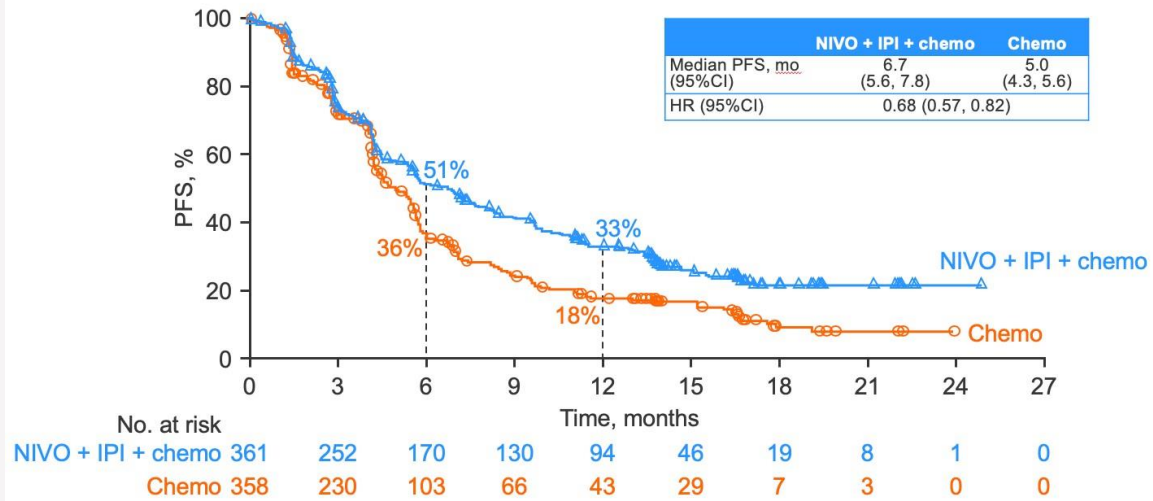
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CheckMate 9LA chemo, nivo, ipi vs chemo pri pokročilom NSCLC

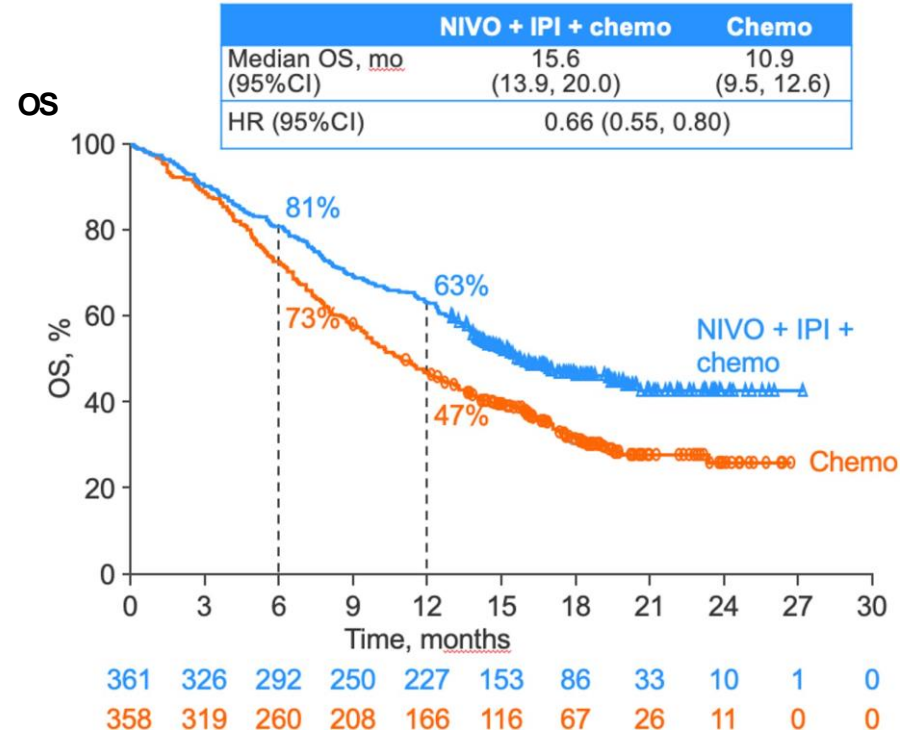
| Štúdia | Rameno | N | ORR % | Medián PFS, mes. (95%CI) | HR (95%CI) Chemo + Nivo + Ipi vs chemo | Medián OS, mes. | HR (95%CI) Chemo + Nivo + Ipi vs chemo |
|---------------|------------------------|-----|-------|--------------------------|--|-------------------|--|
| CheckMate 9LA | Chemo 2 c. +Nivo + IPI | 361 | 38 | 6,7 (5,6 - 7,8) | 0,68 (0,57 - 0,82) | 15,6 (13,9 - 20) | 0,66 (0,55 - 0,80) |
| | Chemo 4 cykly | 358 | 25 | 5,0 (4,3 - 5,6) | | 10,9 (9,5 - 12,6) | |
| | | | | | | | |

CheckMate 9LA

PFS (BICR)



Reck M, et al. J Clin Oncol 2020;38(suppl):Abstr 9501



Zhrnutie

- ASCO 2020 prinieslo snád' až neočakávne veľa výsledkov meniacich klinickú prax pri pokročilom NSCLC
- Osimertinib v adjuvantnej liečbe bude novým štandardom pri resekovanom EGFRM+ NSCLC
- Prichádzajú nové MET a RET inhibítory (a ďalšie cielené lieky)
- Duálna IT nivolumab + ipilimumab s iniciálnou krátkou chemoterapiou je ďalšou liečebnou možnosťou pokročilého NSCLC