



NTRK
connect[®]

POWERED BY **COR2ED**

NTRK CONNECT

MEETING SUMMARY: TRK FUSION-POSITIVE CANCER FROM WCLC, ECP AND ESMO 2022

Dr Fernando Santini

Memorial Sloan Kettering Cancer Center, New York, USA

SEPTEMBER 2022

DISCLOSURES

Please note: Views expressed within this presentation are the personal opinions of the author. They do not necessarily represent the views of the author's academic institution or the rest of NTRK CONNECT group.

This content is supported by an independent educational grant from Bayer.

Disclosures: Dr Fernando Santini has received honoraria from Bayer

SELECTED ABSTRACTS FROM WCLC, ECP AND ESMO 2022

- **Updated clinical efficacy and safety data from larotrectinib:**
 - 463P - Efficacy and safety of larotrectinib in a pooled analysis of patients (pts) with tropomyosin receptor kinase (TRK) fusion cancer with an extended follow-up. Presented by R.S. McDermott (ESMO 2022)
 - EP08.02-148 - Extended follow-up of efficacy and safety of larotrectinib in patients with TRK fusion lung cancer. Presented by V. Moreno (WCLC 2022)

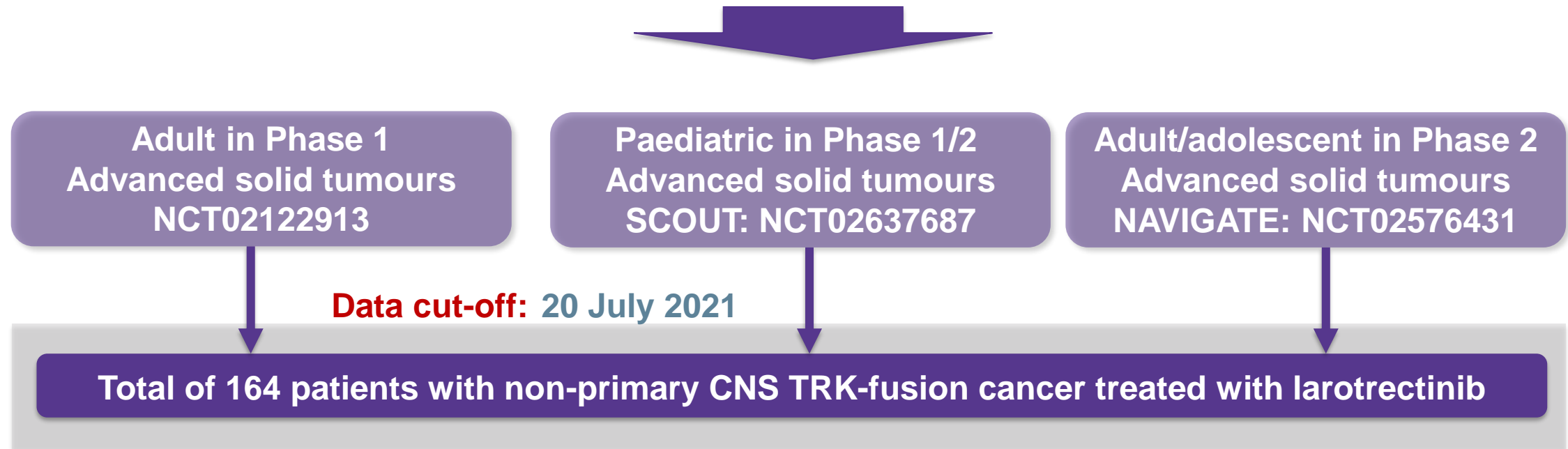
- **Promising testing methods:**
 - OFP-12-007: Ultra-fast gene fusion assessment as a reflex testing in daily clinical practice for advanced non-small cell lung cancer patients. Presented by C. Bontoux (ECP 2022)

EFFICACY AND SAFETY OF LAROTRECTINIB IN A POOLED ANALYSIS OF PATIENTS WITH TRK FUSION CANCER WITH AN EXTENDED FOLLOW-UP

McDermott RS, et al. ESMO 2022. Abstract #463P

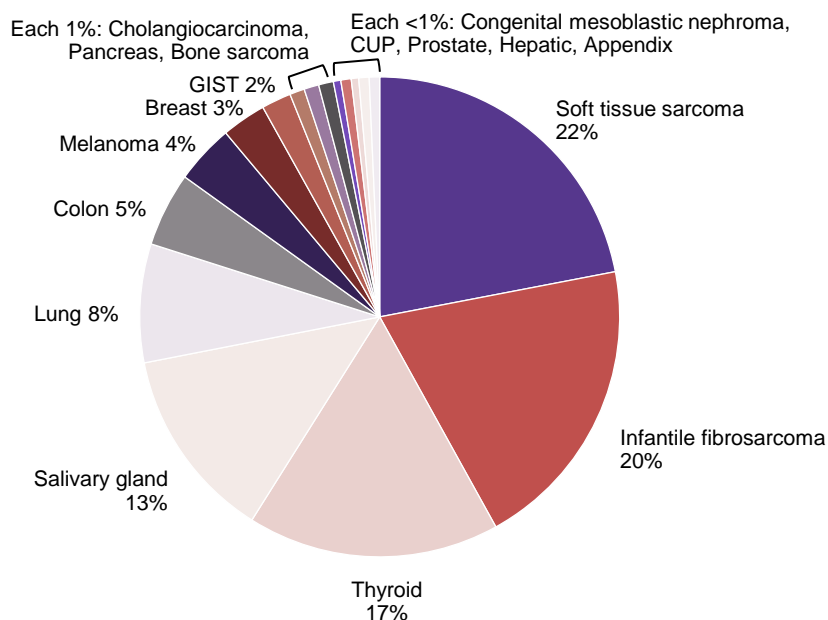
BACKGROUND

larotrectinib = first-in-class, highly selective, CNS-active TRK inhibitor approved to treat adult and paediatric patients with TRK fusion cancer



INTEGRATED DATASET: HIGH ORR ACHIEVED WITH LAROTRECTINIB ACROSS VARIOUS TUMOURS

PATIENT POPULATION BY TUMOUR TYPE (N=164)

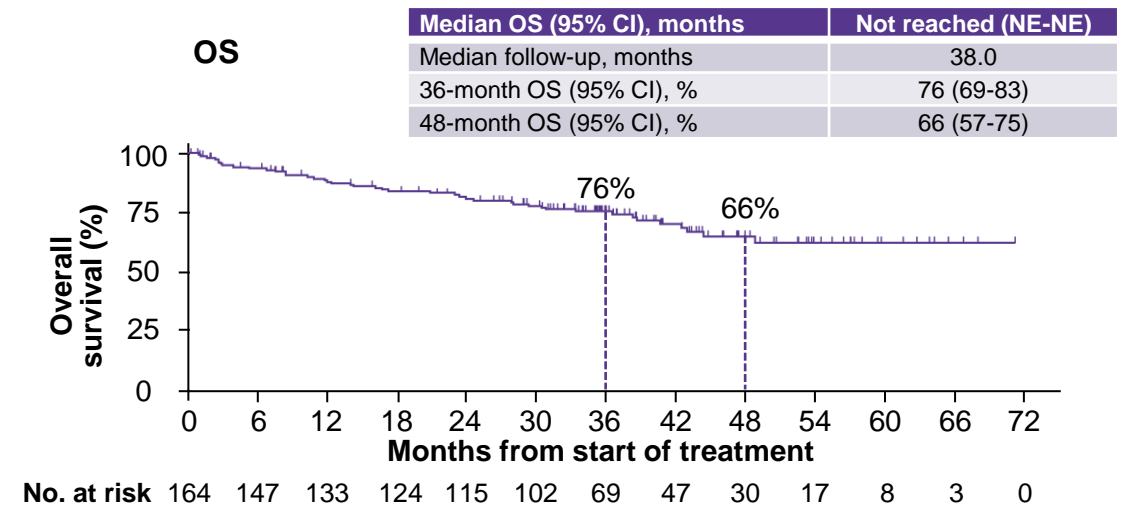
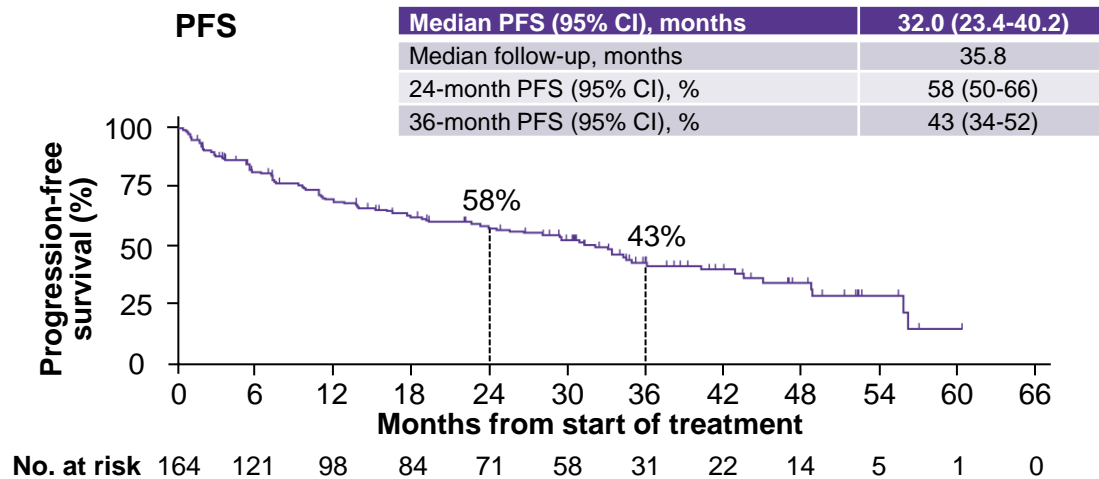
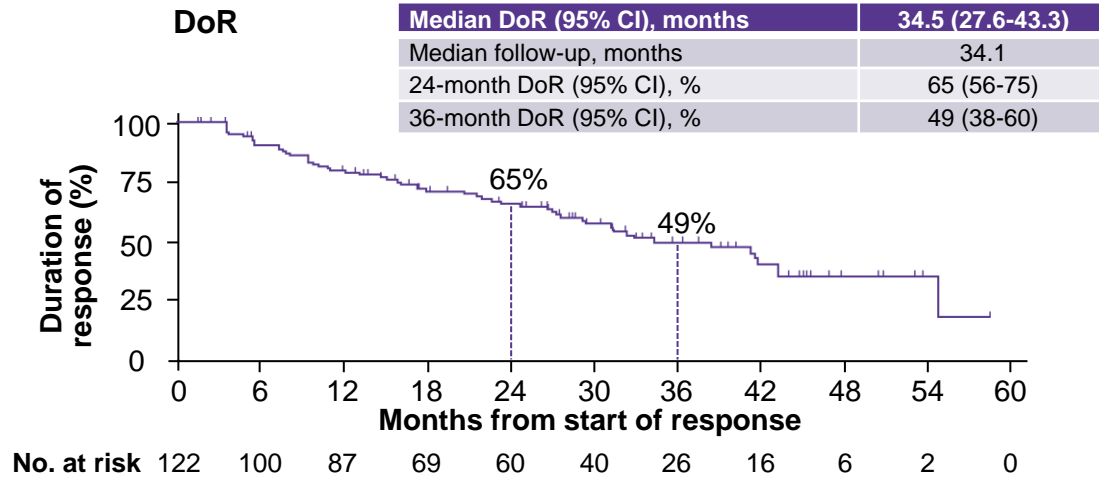


EFFICACY ASSESSMENTS

	Overall	Patients with CNS metastases
Evaluable patients, n	164	14
ORR (95% CI), %	74 (67-81)	86 (57-98)
Best response, n (%)		
Complete response	40 (24)	1 (7)
Pathological complete response	10 (6)	0
Partial response	72 (44)	11 (79)
Stable disease	22 (13)	1 (7)
Progressive disease	13 (8)	0
Not determined ^a	7 (4)	1 (7)

^a Patients who discontinued study drug without evaluable post-baseline assessments

EFFICACY: DoR, PFS, AND OS IN PATIENTS WITH TRK FUSION CANCER

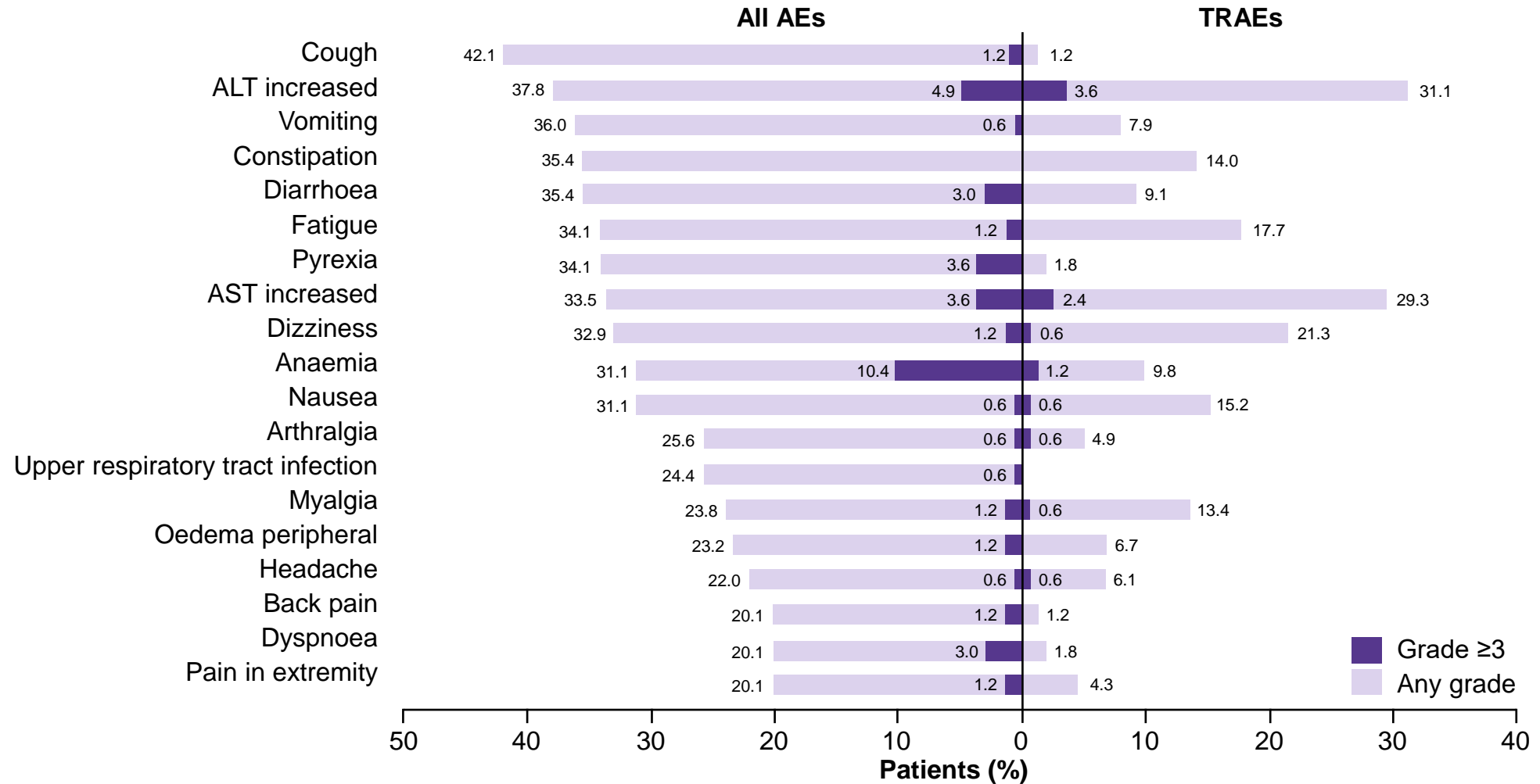


McDermott RS, et al. ESMO 2022. Abstract #463P

CI, confidence interval; DoR, duration of response; NE, not estimable; No., number; OS, overall survival; PFS, progression-free survival; TRK, tropomyosin receptor kinase

SAFETY: NO NEW SIGNAL IDENTIFIED

AEs that occurred in $\geq 20\%$ of patients (N=164)

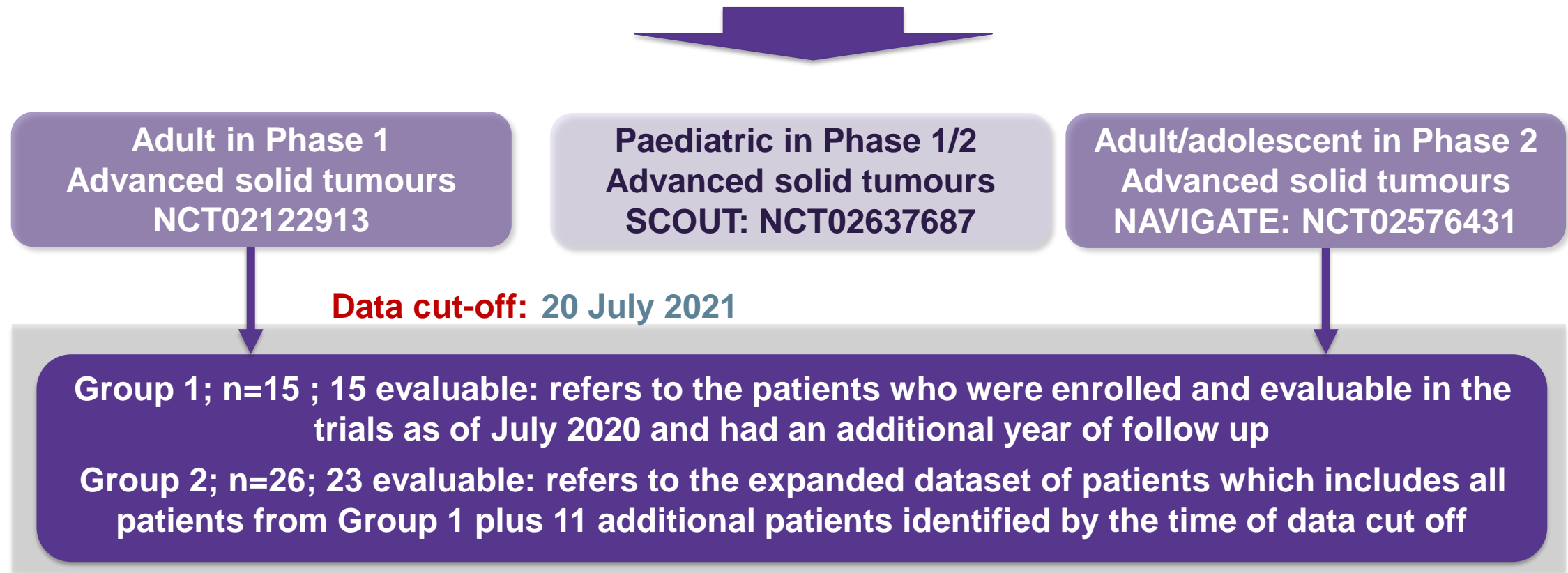


EXTENDED FOLLOW-UP OF EFFICACY AND SAFETY OF LAROTRECTINIB IN PATIENTS WITH TRK FUSION LUNG CANCER

Moreno V, et al. WCLC 2022. Abstract #EP08.02-148

BACKGROUND

larotrectinib = first-in-class, highly selective, CNS-active TRK inhibitor approved to treat adult and paediatric patients with TRK fusion cancer

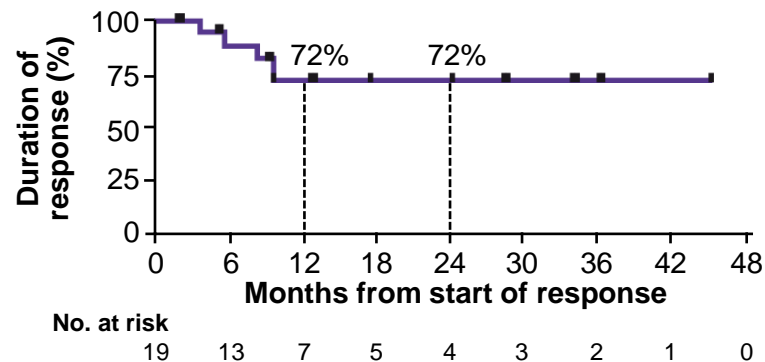


KEY EFFICACY RESULTS IN PATIENTS WITH TRK FUSION LUNG CANCER

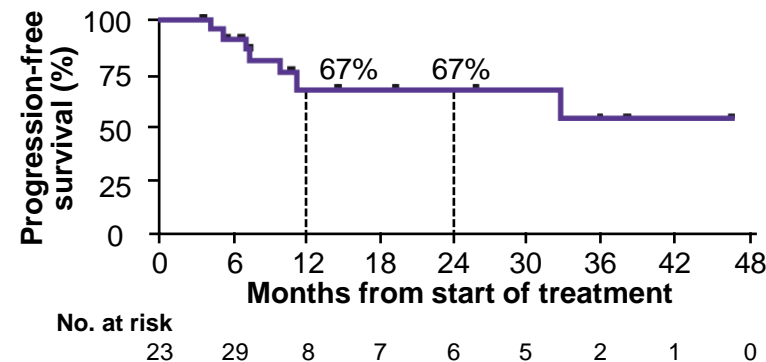
Efficacy from the Group 1 and Group 2 datasets

	Patients from the Group 1 dataset	Patients from the Group 2 dataset
IRC evaluable patients, n	15	23
ORR (95% CI), %	87 (60-98)	83 (61-95)
Best overall response, n (%)		
Complete response	2 (13)	2 (9)
Partial response	11 (73)	17 (74)
Stable disease	2 (13)	4 (17)
Progressive disease	0	0

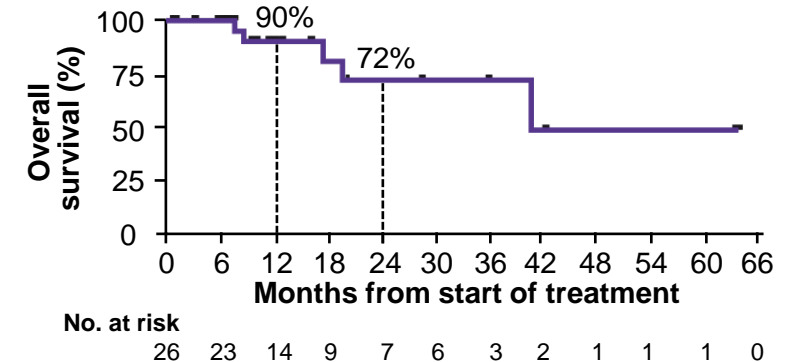
DoR, PFS and OS in patients with TRK fusion lung cancer from the Group 2 dataset (n=26)



Median DoR (95% CI), months	Not reached
Median follow-up, months	12.9
12-month DoR (95% CI), %	72 (48-96)
24-month DoR (95% CI), %	72 (48-96)



Median PFS (95% CI), months	Not reached
Median follow-up, months	14.6
12-month PFS (95% CI), %	67 (44-90)
24-month PFS (95% CI), %	67 (44-90)



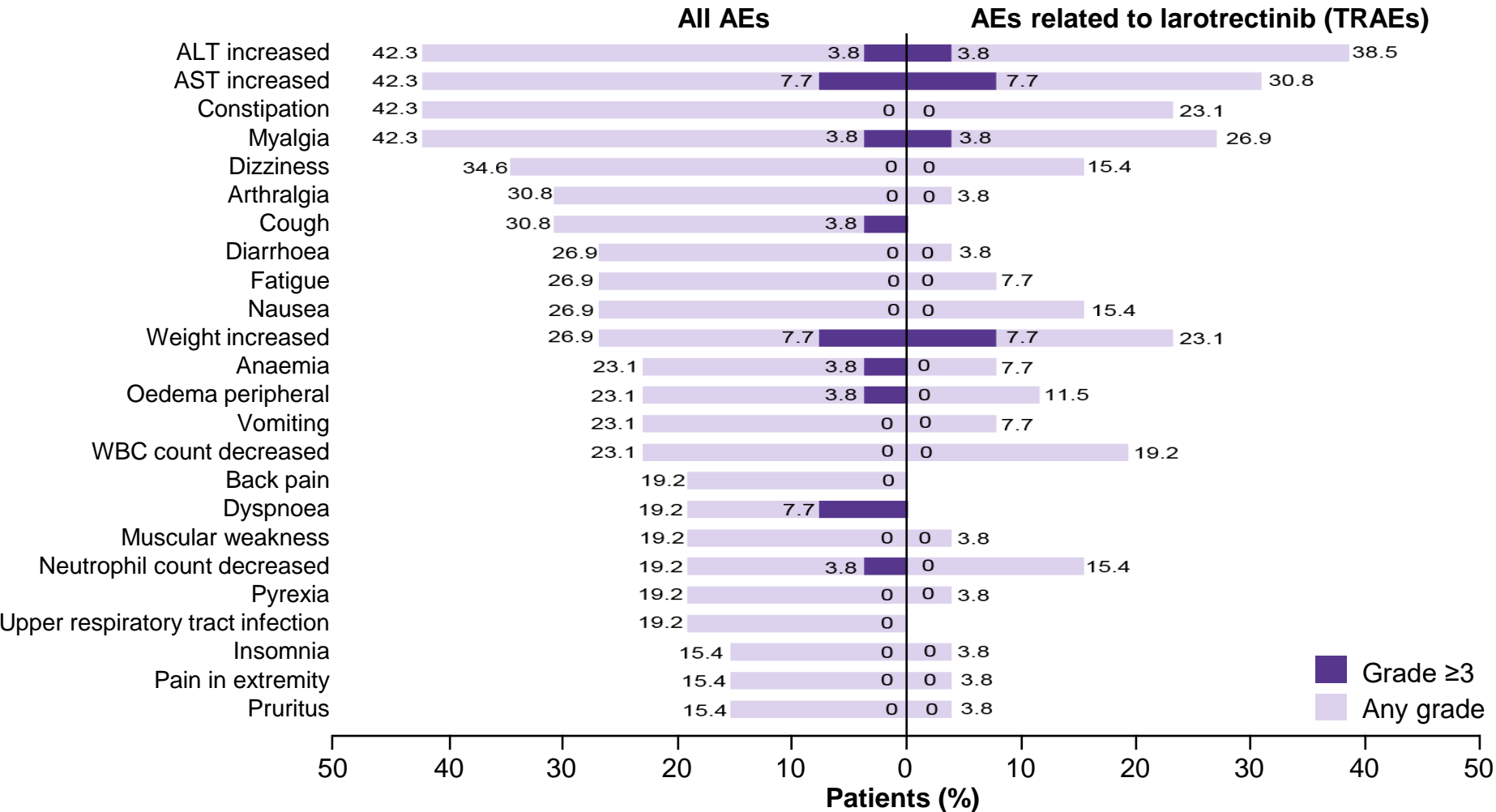
Median OS (95% CI), months	40.7 (19.4-NE)
Median follow-up, months	12.9
12-month OS (95% CI), %	90 (78-100)
24-month OS (95% CI), %	72 (48-97)

Moreno V, et al. WCLC 2022. Abstract #EP08.02-148

CI, confidence interval; DoR, duration of response; IRC, independent review committee; NE, not estimable; ORR, objective response rate; OS, overall survival; PFS, progression free survival; TRK, tropomyosin receptor kinase

SAFETY: NO NEW SAFETY SIGNALS IDENTIFIED

AEs occurring in $\geq 15\%$ of patients from Group 2 (n=26)



For the Group 1 dataset:

- with an additional year of follow-up, there were no new safety signals identified

ULTRA-FAST GENE FUSION ASSESSMENT AS A REFLEX TESTING IN DAILY CLINICAL PRACTICE FOR ADVANCED NON-SMALL CELL LUNG CANCER PATIENTS

Bontoux C, et al. ECP 2022. Abstract #OFP-12-007

- **Objectives:**

- There is an urgent need to improve the broad molecular profiling (reflex testing) of advanced non-squamous non-small cell lung carcinoma patients, notably for a rapid assessment of multiple genomic alterations

- **Methods:**

- We compared two ultra-fast gene fusion assessment assays, using a next generation sequencing (Genexus, Oncomine™ Precision Assay, Thermo-Fisher) or an RT-PCR (Idylla™, GeneFusion Assay, Biocartis) approach, for reflex testing at diagnosis

RESULTS AND CONCLUSION

- 250 NS-NSCLC patients (68 *ALK*, 26 *ROS1*, 15 *RET*, 6 *NTRK*, 11 *MET* positive and 125 wild type patients) from eight centres were included; 83% of patients were stage IIIB-IV
- The sensitivity (98%) and specificity (99%) of the two approaches were analogous, when compared to gold standard methods, accredited according to the ISO 15189 norm

Conclusion: Ultra-fast gene fusion evaluation using NGS or RT-PCR approaches should be developed as a reflex testing for NS-NSCLC at diagnosis in order to treat these patients according to international recommendations and guidelines

CONCLUSIONS

CONCLUSIONS

- **First generation TRK inhibitor:**
 - larotrectinib continues to demonstrate a robust clinical efficacy with a manageable safety profile in various solid tumour types including in lung cancer
- **Testing for presence of *NTRK* fusions:**
 - Presence of *NTRK* fusions must be tested for in order to identify patients who can benefit from first-generation TRK inhibitors such as larotrectinib and entrectinib
 - A reflex testing method is valuable for efficient and rapid identification (within 1 day) of patients with *NTRK* positive tumours

REACH NTRK CONNECT VIA
TWITTER, LINKEDIN, VIMEO & EMAIL
OR VISIT THE GROUP'S WEBSITE
<https://ntrkconnect.cor2ed.com/>



Follow us on Twitter
[@ntrkconnectinfo](https://twitter.com/ntrkconnectinfo)



Follow the
[NTRK CONNECT](#)
group on LinkedIn



Watch us on the
Vimeo Channel
[NTRK CONNECT](#)



Email
lain.murdoch@cor2ed.com



NTRK CONNECT
Bodenackerstrasse 17
4103 Bottmingen
SWITZERLAND

Dr. Froukje Sosef MD

+31 6 2324 3636

froukje.sosef@cor2ed.com

Dr. Antoine Lacombe Pharm D, MBA

+41 79 529 42 79

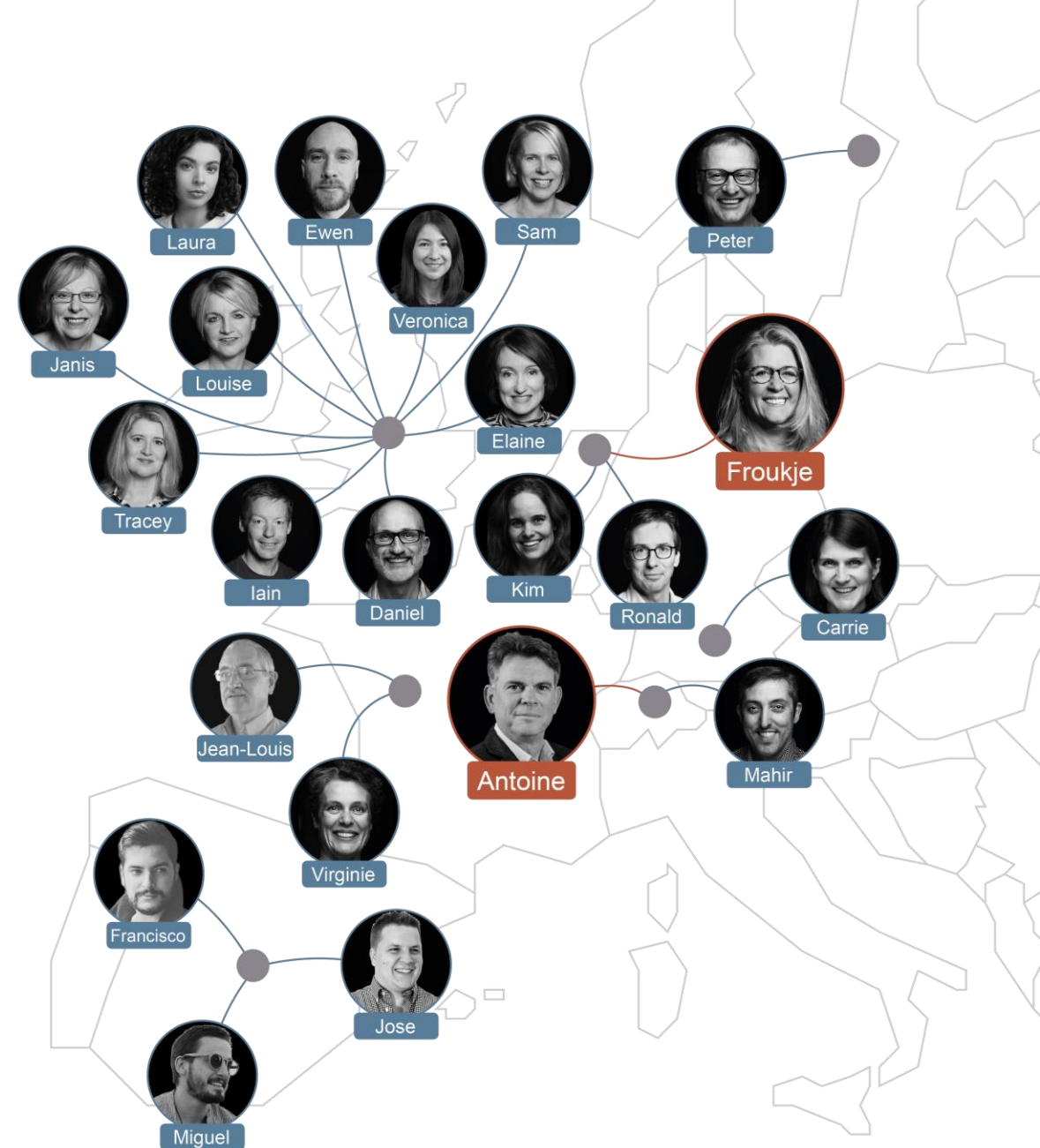
antoine.lacombe@cor2ed.com

Connect on
LinkedIn @NTRK CONNECT

Visit us at
<https://ntrkconnect.cor2ed.com/>

Watch on
Vimeo @NTRK CONNECT

Follow us on
Twitter @ntrkconnectinfo



Heading to the heart of Independent Medical Education Since 2012