



ASCO HIGHLIGHTS

31 MAYO - 4 JUNIO 2019



Carcinoma microcítico pretratados

Dr. Delvys Rodríguez-Abreu

Día 1

Con la colaboración de:



Bristol-Myers Squibb

illumina

Lilly

Carcinoma microcítico en recaída

First-line

Second-line

Cisplatin +
etoposide
1985

Carboplatin +
etoposide
1999

Carboplatin +
etoposide +
atezolizumab
2019

Irinotecan
1992
Docetaxel
1994

Topotecan
(IV)
1996

Paclitaxel
1998
Gemcitabine
2001

Topotecan
(PO)
2007

Temozolomide
2012
Nivolumab +/-
Ipilimumab 2016

Modified from Sabari et al., Nature Reviews Clinical Oncology, 2016

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5

Hospital Universitario
12 de Octubre
SaludMadrid



cnio
Centro Nacional
de Investigaciones
Oncológicas



UNIVERSIDAD COMPLUTENSE
MADRID

EFFICACY AND SAFETY PROFILE OF LURBINECTEDIN IN SECOND-LINE SCLC PATIENTS:

Results from a phase II single-agent trial

Paz Ares L.¹; Trigo JM.²; Besse B.³; Moreno V.⁴; Lopez R.⁵; Sala MA.⁶; Ponce S.¹; Fernandez C.⁷; Siguero M.⁷; Kahatt C.⁷; Zeaiter A.⁷; Zaman K.⁸; Boni V.⁹; Arrondeau J.¹⁰; Martinez M.¹¹; Delord JP.¹²; Awada A.¹³; Kristeleit R.¹⁴; Olmedo ME.¹⁵; Subbiah V.¹⁶

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Efficacy/Safety	1997: Single-arm Topotecan ¹	1999: Randomized Topotecan vs CAV ^{3,4} <i>Sensitive disease</i>	2014: Randomized Topotecan vs Amrubicin ⁵	2018: CheckMate 331 Randomized chemotherapy ⁶ vs Nivolumab ⁷
Response rate	21.7%	24.3%	16.9%	16.5%
mTTP/mPFS	2.8 months ²	3.1 months ²	3.5 months	3.8 months
mOS	5.4 months	5.8 months	7.8 months	8.4 months
Grade 3-4 neutropenia	74.9%	88.5%	53.8%	45%
Grade 3-4 thrombocytopenia	29.5%	57.4%	54.3%	21%
Grade 3-4 anemia	11.8%	42.3%	30.5%	26%

¹Ardizzoni et al., JCO 1997; ²Median time to progression; ³Von Pawel et al., JCO 1999; ⁴Eligibility required progression at least 60 days after completion of first-line chemotherapy; ⁵Von Pawel et al., JCO 2014; ⁶Chemotherapy: topotecan (IV or oral) or amrubicin IV (where locally approved); ⁷Reck et al., ESMO IO 2018, abstract 489.

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9

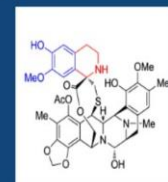
Lurbinectedin

Lurbinectedin is a synthetic analog of trabectedin

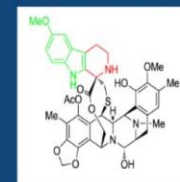
Natural marine-based tetrahydroisoquinoline antitumor agent

Inhibitor of activated transcription in preclinical studies

Signals of activity in SCLC with lurbinectedin/chemo combination phase 1 studies^{1,2}



TRABECTEDIN



LURBINECTEDIN

¹Calvo et al., Ann Oncol. 2017 Oct 1;28(10):2559-2566; ²Olmedo et al., ESMO 2017.

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Carcinoma microcítico en 2da o 3era línea

N-105

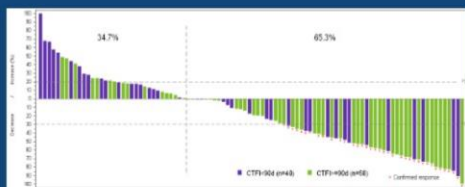
Key points

This study met its primary endpoint
ORR 35.2%

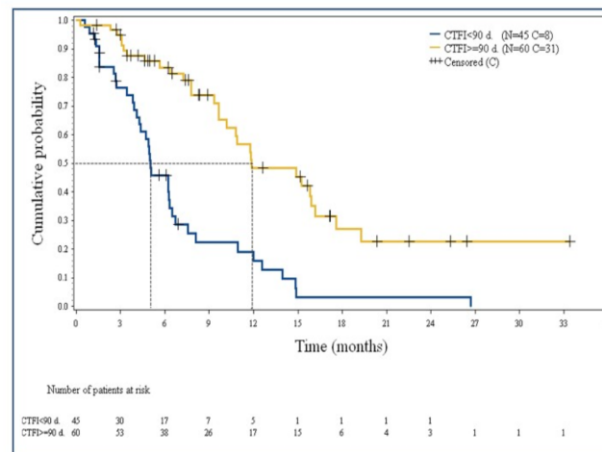
Other efficacy endpoints:

mDOR 5.3 months
mPFS 3.9 months
mOS 9.3 months

How do these numbers compare to historical topotecan data?



Overall Survival: Sensitive and Resistant SCLC Populations



	n	OS mo median (95% CI)	OS at 12 mo % (95% CI)
All	105	9.3 (6.3-11.8)	34.2 (23.2-45.1)
Resistant CTFI<90d	45	5.0 (4.1-6.3)	15.9 (3.6-28.2)
Sensitive CTFI≥90d	60	11.9 (9.7-16.2)	48.3 (32.5-64.1)

Safety and Tolerability: Related or Unknown Adverse Events (AE)

n=105	n (%)
AEs	89 (84.8)
- Grade ≥3	36 (34.3)
SAEs	11 (10.5)
Related AEs leading to death	0 (0.0)
Related AEs leading to treatment discontinuation	2 (1.9)
Dose delays treatment related	21 (22.1*)
Dose reductions #	25 (26.3*)
G-CSF	23 (21.9)
Transfusions (red blood cells and/or platelets)	10 (9.5)

* Per protocol: dose had to be reduced in case of grade 4 neutropenia

Based on 95 patients who received ≥ 2 cycles of treatment

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	Lurbinectedin (n=105)	Von Pawel 2014: Topotecan (n=213) ¹	Von Pawel 2014: Amrubicin (n=424) ¹	CheckMate 331: Chemotherapy (n=285) ²	CheckMate 331: Nivolumab (n=284) ²
ORR (%)	35.2	16.9	31.1	16.5	13.7
ORR sens (%)	45.0	23.1	40.9		
ORR res (%)	22.2	9.4	20.1		
mPFS	3.9 m	3.5 m	4.1 m	3.8 m	1.4 m
mPFS sens	4.6 m	4.3 m	5.5 m		
mPFS res	2.6 m	2.6 m	2.8 m		
mOS	9.3 m 95% CI 6.3-11.8	7.8 m 95% CI 6.4-8.5	7.5 m 95% CI 6.8-8.5	8.4 m 95% CI 7.0-10.0	7.5 m 95% CI 5.6-9.2
mOS sens	11.9 m	9.9 m	9.2 m	11.1 m	7.6 m
mOS res	5.0 m	6.2 m	5.7 m	5.7 m	7.0 m

✓ Efficacy appears comparable, if not superior, to historical studies.

¹Von Pawel et al., JCO 2014; 32(35):4012-2019; ²Reck et al., ESMO IO 2018, abstract 489. Chemotherapy control arm was topotecan or amrubicin.

Carcinoma microcítico en 2da o 3era línea

Trilaciclib

Effect of Trilaciclib, a CDK 4/6 Inhibitor, on Myelosuppression in Patients with Previously Treated Extensive-Stage Small Cell Lung Cancer

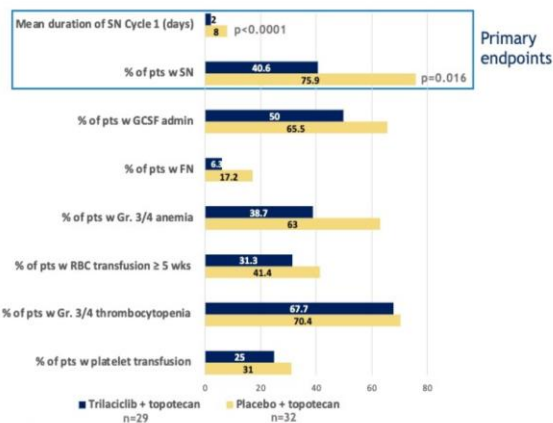
Lowell L. Hart^{1,2,3}, Zoran Gojko Andric⁴, Maen A. Hussein^{1,5}, Renata Ferrarotto⁶, J. Thaddeus Beck⁷, Janakiraman Subramanian⁸, Davorin Z. Radosavljevic⁹, Dragana Jovanovic¹⁰, Krishna Kishore Pachipala¹¹, Miroslav Samarzija¹², Bojan Zaric¹³, Wahid Tewfik Hanna¹⁴, Raid Aljumaily^{1,15}, Taofeek Kunle Owonikoko¹⁶, Rajesh K. Malik¹⁷, Shannon R. Morris¹⁷, Misha L. Johnson¹⁷, Zhao Yang¹⁷, Steven Adler¹⁷ and David R. Spigel^{1,18}

Sarah Cannon Research Institute, Nashville, TN¹; Florida Cancer Specialists and Research Institute, Fort Myers, FL²; Wake Forest University School of Medicine, Winston-Salem, NC³; Clinical Hospital Center, Bezanjska Kosa, Belgrade, Serbia⁴; Florida Cancer Specialists and Research Institute, Tavares, FL⁵; The University of Texas MD Anderson Cancer Center, Houston, TX⁶; Highlands Oncology Group, Rogers, AR⁷; Hanna Cancer Associates, Knoxville, TN⁸; Institute for Oncology and Radiology of Serbia Clinic for Medical Oncology, Belgrade, Serbia⁹; Clinic for Pulmonary Diseases, Clinical Center of Serbia, Belgrade, Serbia¹⁰; Millennium Oncology, Woodlands, TX¹¹; University Hospital Centre Zagreb, Zagreb, Croatia¹²; Faculty of Medicine, University of Novi Sad Institute for Pulmonary Diseases of Vojvodina, Sremska Kamenica, Serbia¹³; University of Tennessee Graduate School of Medicine, Knoxville, TN¹⁴; Stephenson Cancer Center, University of Oklahoma HSC¹⁵; Emory University, Atlanta, GA¹⁶; G1 Therapeutics, Inc., Research Triangle Park, NC¹⁷ and Tennessee Oncology, Nashville, TN¹⁸

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Trilaciclib Demonstrates Myelopreservation Benefit Across Multiple Lineages

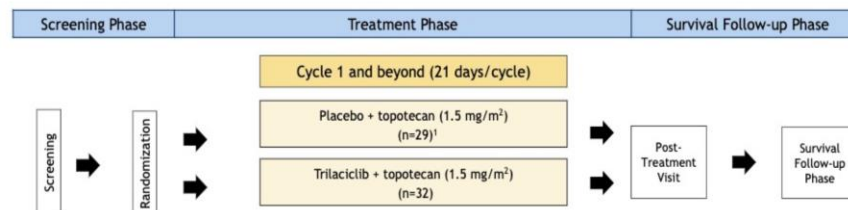
- Duration of severe neutropenia is a surrogate for an increased risk of febrile neutropenia, infection, IV antibiotic use and hospitalizations
- Chemotherapy-induced anemia in cancer patients correlates with fatigue and a compromised quality of life



SN, Severe neutropenia; FN, febrile neutropenia; Gr, grade; RBC, red blood cell; %, percent; pts, patients
Data are based on laboratory values

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G1T28-03 Study Design: Extensive-Stage SCLC (2L/3L) N-61



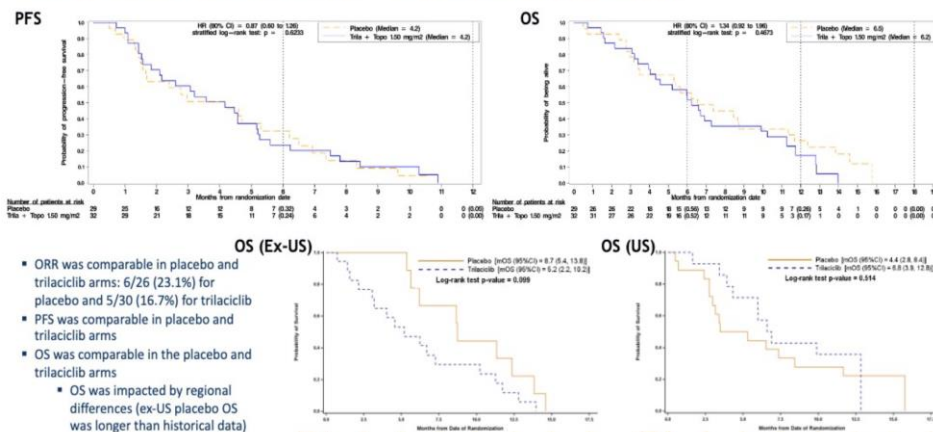
- Randomized, double-blind, placebo-controlled, Phase 2 study stratified by ECOG status (0 to 1 versus 2) and sensitivity to 1L treatment (sensitive versus resistant)
- Trilaciclib administered IV on Days 1-5 prior to topotecan
- Patients treated until disease progression, unacceptable toxicity or withdrawal of consent
- Use of primary prophylactic colony stimulating factors in Cycle 1 was not allowed; supportive care measures per institution were permitted throughout the study
- A trilaciclib + 0.75 mg/m² topotecan arm was also enrolled (n=30); data not shown

ES-SCLC, Extensive-Stage Small cell lung cancer; L, Line

¹ One patient randomized to placebo was not treated

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Trilaciclib Does Not Impair Chemotherapy Efficacy



- ORR was comparable in placebo and trilaciclib arms: 6/26 (23.1%) for placebo and 5/30 (16.7%) for trilaciclib
- PFS was comparable in placebo and trilaciclib arms
- OS was comparable in the placebo and trilaciclib arms
- OS was impacted by regional differences (ex-US placebo OS was longer than historical data)

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