



SITUACIONES ESPECIALES EN CANCER DE PULMON. SEGUNDA LÍNEA EN CPM

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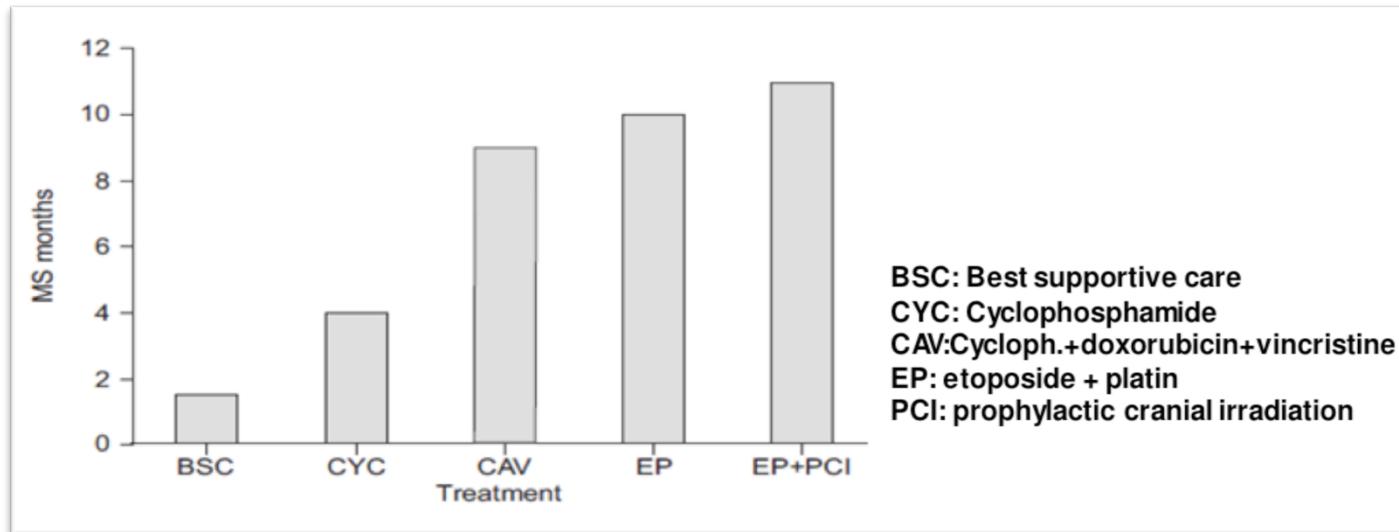


| | Median Survival – Untreated Patients (wk) | Median Survival – Treated Patients (mo) <u>plateau</u> | 5-Year Survival (%) |
|--------------------------|--|---|----------------------------|
| Limited disease | 12 | 14-20 | 10%-20% |
| Extensive disease | 5 | 8-12 | 3%-5% |

- Extensión
- Tiempo desde fin de primera línea



- Probabilidad de Respuesta Objetiva en 2º línea:
 - Tiempo desde el fin de 1º línea
 - Respuesta al tto inicial
 - PS



- Platino-Etopósido es el gold standard desde 1985!!!
- Esquemas con 3-4 drogas
- Regímenes con intensificación de dosis
- Mantenimiento -Consolidación

} **INEFICACES**



TIPOS DE RECAIDAS

En función del grado de quimiosensibilidad:

- **Quimiosensibles:** PE > 90 días desde fin QT
- **Quimioresistentes:** PE ≤ 90 días
- **Refractarios:** Tumor progresiona o no responde al tto inicial

EL objetivo del tto : Control de síntomas y mejorar QoL

QT vs BSC

- O'Brien ME (JCO 2006): 141 ptes **Topotecan oral** vs BSC
 - Todos recaidas $\geq 45d$
 - MOS 26 sem vs 14. 7% Respuestas objetivas. 44% EE
 - Mayor beneficio en recaidas ≥ 60 días
 - Beneficio en QoL
- Estudio SPEAR, (Ciuleanu, JCO 2010): 401 ptes **Picoplatino** vs BSC
 - No diferencias en SG (21 vs 20 sem)
 - SG mayor en ptes con enf refractaria o recaída quimiorresistente (21.3 vs 18.4 sem)



Owonikoko
JTO 2012

| Study | Total (Sensitive/Refractory) | PS (0/1/2) | Study Design | Therapy | RR (%) | | OS (months) | |
|---------------------------------------|------------------------------|-------------|---------------------------------|--------------------------------------|-----------|------------|-------------|------------|
| | | | | | Sensitive | Refractory | Sensitive | Refractory |
| Eckardt et al. 2009 ¹⁷ | 77 (6/71) | 9/51/17 | Phase II single arm | Picoplatin | 17 | 8 | NR | NR |
| Jalal et al. 2009 ¹⁸ | 43 (20/23) | 14/18/11 | Single arm phase II | Pemetrexed | 5 | 4 | 4.4 | 2.7 |
| Gronberg et al 2009 ¹⁹ | 34 (25/9) | 5/18/11 | Multicenter phase II | Pemetrexed | 0 | 11 | 5.7 | 3.8 |
| Rocha-Lima et al. 2007 ²⁰ | 71 (35/36) | 19/41/11 | Phase II single arm | Irinotecan Gemcitabine | 31 | 11 | 7.1 | 3.5 |
| Ardizzone et al. 2003 ²¹ | 110 (68/42) | 17/75/18 | Multicenter single arm phase II | Topotecan + Cisplatin | 29 | 24 | NR | NR |
| Naka et al. 2002 ²² | 29 (16/13) | 0/16/13 | Single arm phase II | Irinotecan + Carboplatin | 38 | 23 | 6.1 | 5.7 |
| Sculier et al. 2002 ²³ | 45 (29/16) | NR | Randomized phase II | Cisplatin-etoposide/carboplatin | 49 | 19 | 7.7 | 7.4 |
| Kosmas et al. 2001 ²⁴ | 33 (13/20) | NR | Single arm phase II | Paclitaxel, Ifosfamide and Cisplatin | 77 | 70 | NR | NR |
| Sonpavde et al. 2000 ²⁵ | 46 (32/14) | NR | Single arm phase II | Doxorubicin + Paclitaxel | 53 | 14 | NR | NR |
| Ardizzone et al. 1997 ²⁶ | 92 (45/47) | NR | Single arm phase II | Topotecan | 37.5 | 6.4 | 6.9 | 4.7 |
| Schuette et al. 2005 ²⁷ | 35 (20/15) | 9/21/5 | Single arm phase II | Gemcitabine + Irinotecan | 10 | 26 | 4.5 | 4.5 |
| Ichiki et al. 2003 ²⁸ | 34 (24/10) | 7/16/11 | Single arm phase II | Irinotecan + Ifosfamide | 62.5 | 30 | NR | NR |
| Hensing et al. 2006 ²⁹ | 37 (20/17) | NR | Single arm phase II | BBR-3464 (Triplatin) | NR | NR | 6.8 | 2.5 |
| Domine et al. 2001 ³⁰ | 20 (10/10) | NR | Multicenter phase II | Gemcitabine + Paclitaxel | 60 | 50 | NR | NR |
| Dongiovanni et al. 2006 ³¹ | 31 (21/10) | 3/20/8 | Single institution phase | Gemcitabine + Paclitaxel | 28.6 | 20 | NR | NR |
| Hoang et al. 2003 ³² | 27 (15/12) | 25/0/2 | Single arm phase II | Gemcitabine | NR | NR | 8.8 | 4.2 |
| Hainsworth et al. 2003 ³³ | 29 (12/17) | NR | Single arm phase II | Gemcitabine and Vinorelbine | 25 | 0 | NR | NR |
| Sessa et al. 2000 ³⁴ | 66 (37/29) | 15/39/12 | Single arm phase II | GI147211 (Camptothecin) | 21.6 | 10.3 | NR | NR |
| Huber et al. 2006 ³⁵ | 169 (111/58) | 34/92/37 | Multicenter single arm phase II | Topotecan | 17.2 | 8.6 | 5.04 | 5.33 |
| Von Pawel et al. 2011 ³⁶ | Amrubicin (225/199) | NR | Multicenter phase III trial | Amrubicin | NR | NR | 9.2 | 6.2 |
| Topotecan (117/96) | | | | | Topotecan | NR | NR | 9.9 |
| Vigano et al. 2011 ³⁷ | 27 | NA | Single arm phase II | NGR-hTNF + Doxorubicin | 27 | 19 | NR | NR |
| Overall | 1692 (901/764) | 157/407/156 | | | 27.7 | 14.8 | 7.73 | 5.45 |

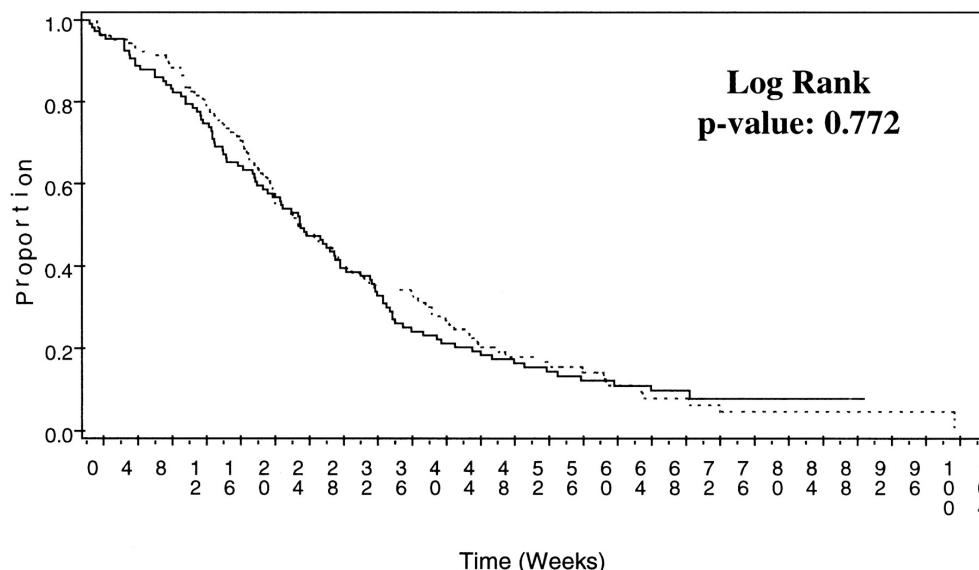
Table 1 Summary of phase II trials of cytotoxic agents for relapsed SCLC

| Study | Regimen | n of patients | Overall RR (%) | Median survival (mos) | Median response duration (mos) |
|-------------------------|---|----------------------|-----------------------------|-------------------------------|---------------------------------------|
| Ando et al. [26] | Irinotecan (60 mg/m^2) + cisplatin (30 mg/m^2) on days 1, 8, and 15 | 25 | 80 | 7.9 | 3.6 |
| Masuda et al. [27] | Irinotecan (70 mg/m^2) on days 1, 8, and 15 + etoposide (80 mg/m^2) on days 1–3 | 25 | 71 | 9 | 4.6 |
| Naka et al. [28] | Irinotecan (50 mg/m^2) + carboplatin (AUC, 2) on days 1, 8, and 15 | 29 | 31 | 6.1 | 3.5 |
| Yamamoto et al. [29] | Paclitaxel (80 mg/m^2) weekly | 21 | 24 | NA | NA |
| Kosmas et al. [30] | Paclitaxel (175 mg/m^2) on day 1 + ifosfamide (5 mg/m^2) on days 1 and 2 + cisplatin (100 mg/m^2) on days 1 and 2 (every 21 days) | 35 | 73 | 7 | 5.2 |
| Kakolyris S et al. [31] | Paclitaxel (200 mg/m^2) + carboplatin (AUC, 6) every 28 days | 32 | 25 | 7 | 3 |
| Sonpavde et al. [32] | Paclitaxel (175 mg/m^2) + doxorubicin (40 mg/m^2) every 21 days | 46 | 41 | NA | NA |
| Fennell et al. [33] | Irinotecan (100 mg/m^2) + cisplatin (100 mg/m^2) on days 1 and 15 + mitomycin (6 mg/m^2) on day 1 every 28 days | 21 | 57 | 7.8 | 4.5 |
| Rocha-Lima et al. [34] | Gemcitabine ($1,000 \text{ mg/m}^2$) + irinotecan (100 mg/m^2) on days 1 and 8 every 21 days; group A, sensitive; group B, refractory | 75 | Group A, 31; group B, 11 | Group A, 7.1; group B, 3.5 | PFS: group A, 3.1; group B, 1.6 |
| Inoue et al [35] | Amrubicin (40 mg/m^2) on days 1–3 versus topotecan (1 mg/m^2) on days 1–5 every 21 days | 59 | 38 versus 13 | 8.1 versus 8.4 | 3.5 versus 2.2 |
| Schmittel et al. [36] | Bendamustine (120 mg/m^2) on days 1 and 2 every 21 days | 21 | 29 | 7 | 4 |

Abbreviations: AUC, area under the concentration–time curve; NA, not available; PFS, progression-free survival; RR, response rate; SCLC, small cell lung cancer.

Topotecan

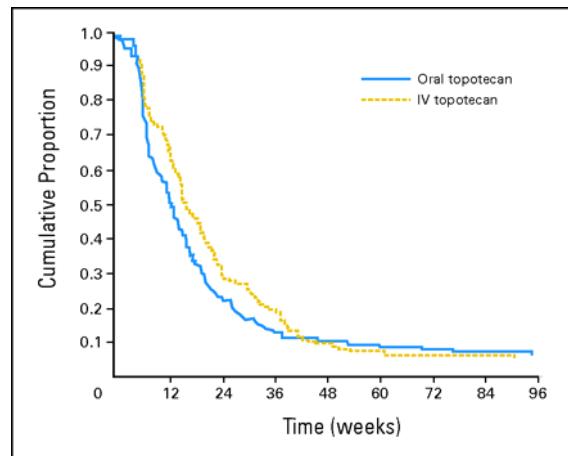
- Único fármaco aprobado en 2 línea para CPM refract/recaída
- Von Pawel, JCO 1999: Topotecan vs CAV
 - 211 ptes quimiosensibles
 - ORR (24% vs 18%), MTTP (13 vs 12 sem) y MOS (25 vs 24.7 sem) similares
 - Mejor control sintomático y menor toxicidad con Topotecan



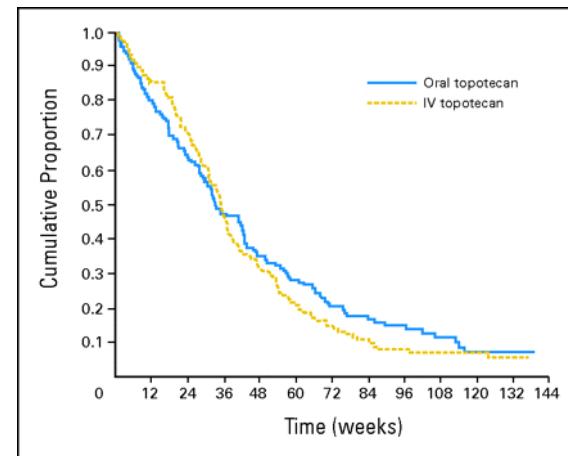
Topotecan

- Topotecan oral similar eficacia y toxicidad que iv (Eckardt JR, JCO 2007)
 - Avalado ensayo fase III de no inferioridad
 - 2.3mg/m² diario x 5 días vs 1.5mg/m² iv diario x 5 días
 - Pacientes quimiosensibles

TTP



SG



- Topotecan en > 65 años tiene similar eficacia y toxicidad (Garst, Clin Lung Cancer 2005)
- Topotecan es útil en metástasis cerebrales



Otros fármacos

- IRINOTECAN: 16-47% respuestas objetivas. Nula respuesta en resistentes/refractarios
- PACLITAXEL: 29% RP, pero con corta duración de respuesta (mediana 100 días)
- DOCETAXEL: ORR 25%, con *71% neutropenia G4*
- ETOPOSIDO ORAL: ORR 23% (96% ptes VP16 previo en 1º línea)
- VINORELBINA
- GEMCITABINA

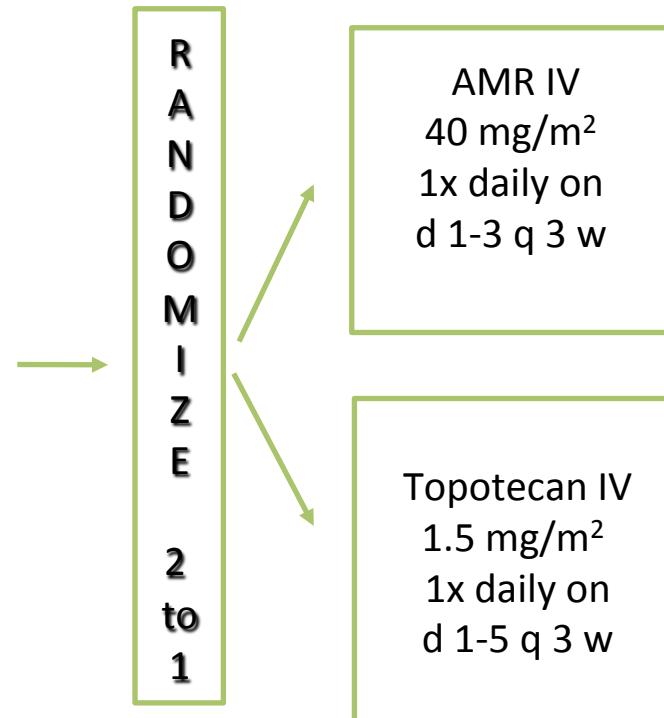


AMRUBICINA

AMRUBICINA: Phase III 2nd-line SCLC: ACT-1 Trial

- Antraciclina 3º generación y un inhibidor potente de la Topoisomerasa II

- Small Cell Lung Cancer (SCLC)
- Extensive or Limited Disease
- Sensitive or refractory disease
(Progression ≥90 or <90 days after completion of 1st-line chemotherapy,
Response to 1st-line chemo)
- 1 prior chemotherapy regimen
- ECOG performance status 0-1
- Stratified: Sensitive/Refractory;
Extensive/Limited



- Primary endpoint: Overall survival
- Secondary endpoints: ORR, PFS, TTP, quality of life, safety, sparse PK
- Analyses: Interim (deaths = 294), Final (deaths = 490)
[97.5% power: 6.0 vs. 8.7 months (HR: 0.69)]

Jotte, JCO 2011



- Características de los pacientes

| | AMR, N=424 n (%) | Topo, N=213 n (%) |
|-----------------------------------|----------------------------|-----------------------------|
| Age (Median) | 62 | 61 |
| Range | 22-81 | 30-81 |
| Age ≥ 65 years | 169 (39.9) | 74 (34.7) |
| Sex | | |
| Male | 244 (57.5) | 127 (59.6) |
| Female | 180 (42.5) | 86 (40.4) |
| Performance Status | | |
| 0 | 126 (29.7) | 72 (33.8) |
| 1 | 289 (68.2) | 137 (64.3) |
| 2 | 9 (2.1) | 4 (1.9) |
| Sensitivity to first-line therapy | | |
| Sensitive | 225 (53.1) | 117 (54.9) |
| Refractory | 199 (46.9) | 96 (45.1) |

PFS

RR = 31.1 (A) vs 16.6% (T) p= 0.0001

| | Amrubicin N=424 | Topotecan N=213 | HR | p-value* |
|------------------------|----------------------------|----------------------------|---------------|-----------------|
| N/Events | 424/367 | 213/167 | | |
| Median PFS (months) | 4.1 | 3.5 | 0.802 | 0.0182 |
| 95% CI | 3.5 – 4.3 | 2.9 – 4.2 | 0.667 – 0.965 | |

* Unstratified log-rank test

OS

| | AMR | Topo | HR | p-value* |
|-----------------------|-----------|-----------|---------------|----------|
| N/Events | 424/336 | 213/175 | | |
| Median OS (months) | 7.5 | 7.8 | 0.880 | 0.1701 |
| 95% CI | 6.8 – 8.5 | 6.6 – 8.5 | 0.733 – 1.057 | |

* Unstratified log-rank test

MOS

Sensitive Patients

| | AMR | Topo | HR | p-value* |
|----------|----------|----------|---------------|----------|
| N/events | 225/168 | 117/89 | | |
| OS (mo) | 9.2 | 9.9 | 0.936 | 0.6164 |
| 95% CI | 8.5-10.6 | 8.5-11.5 | 0.724 – 1.211 | |

Refractory Patients

| | AMR | Topo | HR | p-value* |
|----------|---------|---------|---------------|----------|
| N/events | 199/168 | 96/86 | | |
| OS (mo) | 6.2 | 5.7 | 0.766 | 0.0469 |
| 95% CI | 5.5-6.7 | 4.1-7.0 | 0.589 – 0.997 | |

* Unstratified log-rank test

Toxicidad G3-4

| System Organ Class Preferred Term | Number (%) of Patients | |
|--|------------------------|----------------------|
| | Amrubicin (N=408) | Topotecan (N=197) |
| Patients with at least 1 Grade 3 or 4 TEAE | 296 (72.5) | 174 (88.3) |
| Blood and Lymphatic System Disorders | 216 (52.9) | 152 (77.2) |
| Anemia | 65 (15.9) | 60 (30.5) |
| Febrile Neutropenia | 38 (9.3) | 7 (3.6) |
| Leukopenia | 62 (15.2) | 43 (21.8) |
| Neutropenia | 168 (41.2) | 105 (53.3) |
| Thrombocytopenia | 86 (21.1) | 107 (54.3) |
| General Disorders and Administration Site Conditions | 74 (18.1) | 30 (15.2) |
| Fatigue | 43 (10.5) | 24 (12.2) |
| Infections | 54 (13.2) | 17 (8.6) |
| Pneumonia | 22 (5.4) | 5 (2.5) |
| Metabolism and Nutrition Disorders | 67 (16.4) | 24 (12.2) |
| Hyponatremia | 21 (5.1) | 11 (5.6) |
| Respiratory, Thoracic, and Mediastinal Disorders | 43 (10.5) | 19 (9.6) |
| Dyspnea | 18 (4.4) | 13 (6.6) |

| | | |
|----------------------------|------------|------------|
| Transfusions | | |
| Blood and related products | 131 (32.1) | 104 (52.8) |

P<0.05 for highlighted values.

BENDAMUSTINA

- Alquilante con eficacia demostrada en primera línea combinado con carbo (RR 73%, TTP 5.2 months and OS 8.3 months [Köster, JTO 2007]).
- Ensayo fase II, 2^a y 3^a líneas
 - Bendamustina 120mg/m² IV d1-2, cada 3 sem
 - 48 ptes.: 1 RC, 9 RP, 13 EE (Tasa control enf 48%)
 - MTTP 3.7m, MOS 4.77m
 - Toxicidad 3-4: astenia 18%, disnea 15%, infección 12.5%
- Ensayo abierto combinado con VP16



- Inhibidor de Topoisomerasa 1

Phase II Multicenter Trial of Voreloxin as Second-Line Therapy in Chemotherapy-Sensitive or Refractory Small Cell Lung Cancer

Lee M. Krug, MD,* Jeffrey Crawford, MD,† David S. Ettinger, MD,‡ Geoffrey I. Shapiro, MD,§
David Spigel, MD,|| Tony Reiman, MD,¶ Jennifer S. Temel, MD,‡ Glenn C. Michelson, MD,**
Donald Y. Young, MS, ** Ute Hoch, PhD,†† and Daniel C. Adelman, MD,‡‡

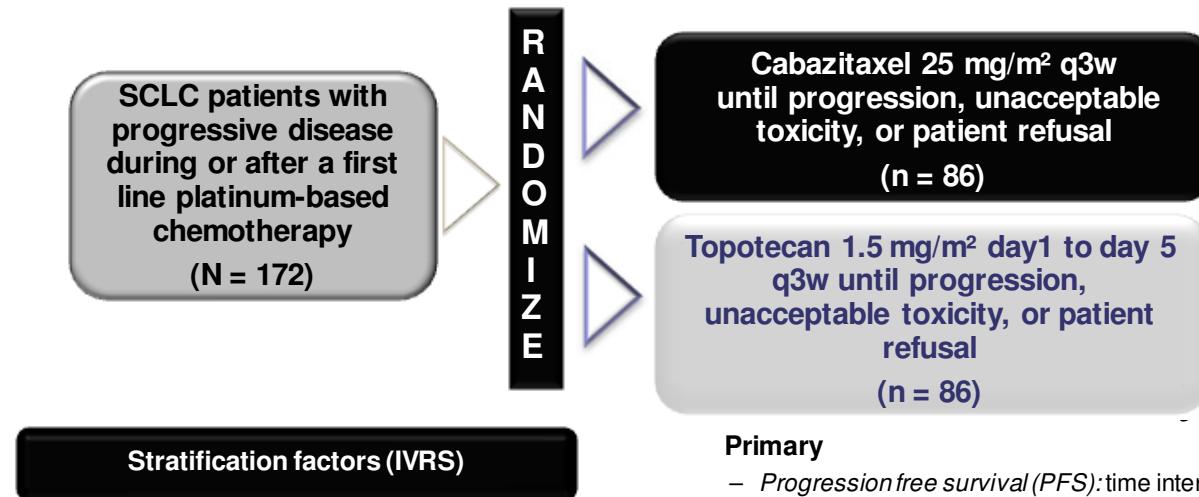
Journal of Thoracic Oncology -Volume 6, Number 2, February 2011

Conclusion: Voreloxin has minimal activity in relapsed SCLC when administered at 48 mg/m² in a 3-week schedule.

Cabazitaxel

- Agente antimicrotúbulo con actividad en tumores resistentes a docetaxel

ARD 12166 Phase II design



Primary

- *Progression free survival (PFS)*: time interval from the date of randomization to the date of occurrence of the first documented tumor progression or death due to any cause, whichever comes first.

Secondary

- *Disease progression free rate at 12 weeks*: proportion of patients that are free of disease progression at the 12 week assessment.
- *Objective response rate (ORR) and duration (RECIST 1.1)*
- *Overall survival (OS)*
- *Safety*
- *HRQOL*

Agentes diana en estudio en CPM

Matrix Metalloproteinase Inhibitors

Marimastat

Tanomastat

c-Kit Receptor Tyrosine Kinase Inhibitors

Imatinib

Vaccines

Mitumomab

Autologous dendritic cell–Adenovirus p53 vaccine

Anti-Bcl-2 Family Protein Inhibitors

Oblimersen

AT-101 (R-(-)-gossypol)

Antiangiogenic Inhibitors

Bevacizumab

Cediranib

Vandetanib

Sorafenib

Thalidomide

Mammalian Target of Rapamycin Inhibitors

Temsirolimus

Everolimus

Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitor

Gefitinib

Farnesyltransferase Inhibitor

Tipifarnib

Multidrug Resistance Inhibitor

Biricodar

Anti-CD56 Monoclonal Antibody

BB-10901

>900 ensayos realizados

Antiangiogénicos

| | Phase | Population | Pts, n | Conclusion | Reference |
|-----------------------------------|-------|---|--------|--|--------------------------|
| Bevacizumab (anti-VEGF) | II | <ul style="list-style-type: none"> Extensive stage Untreated With combination chemotherapy | 63 | Promising results (pts progression-free at 6m: 33%) | <i>J Clin Oncol 2009</i> |
| | | | 72 | Primary end-point (12m OS) not reached — OS: 11m and PFS: 7m | <i>J Clin Oncol 2011</i> |
| | II | Relapsed, in combination with paclitaxel | 34 | No improvement in PFS and OS | <i>J Thor Oncol 2010</i> |
| | II | 1 st line in combination with chemotherapy | 52 | Improved PFS – no difference in OS | <i>J Clin Oncol 2011</i> |
| Vandetanib (anti-VEGFR-2) | II | Maintenance after 1 st line chemotherapy for pts at CR or PR | 107 | No efficacy as maintenance therapy | <i>J Clin Oncol 2007</i> |
| Sorafenib | II | Relapsed, 2 nd line | 89 | No clinical activity | <i>J Thor Oncol 2010</i> |
| Thalidomide | III | Extensive stage, after response to 2 cycles of chemotherapy | 119 | No significant improvement in survival | <i>Clin Oncol 2007</i> |
| | | | 724 | | <i>Lung Cancer 2008</i> |
| Cediranib (anti-VEGFR-1, 2, 3) | II | Relapsed | 25 | No clinical activity | <i>J Thor Oncol 2010</i> |

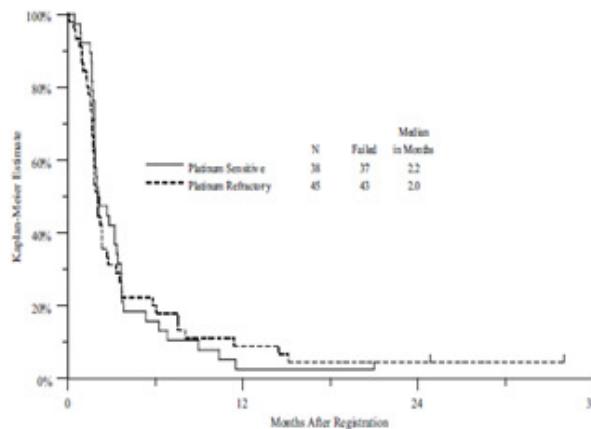
Sorafenib

Sorafenib in Platinum-Treated Patients with Extensive Stage Small Cell Lung Cancer

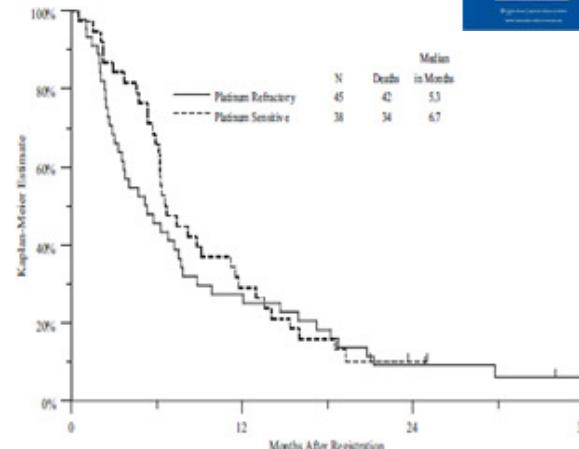
A Southwest Oncology Group (SWOG 0435) Phase II Trial

Barbara J. Giltnan, MD,* James Moon, MS,† Bonnie S. Glisson, MD,‡
H. Joachim Reimers, MD, PhD,§ Martin J. Bury, MD,|| Justin D. Floyd, DO,¶
Thomas K. Schulz, MD,# P. Kothai Sundaram, MD,** Christopher Ho, MD,*
and David R. Gandara, MD††

- **Sorafenib:** inhibitor of B-raf, VEGFR-1, 2, 3, PDGFR β , c-kit, FLT3, RET.
- **Primary objective:** objective response rate
- **Secondary objectives:** OS, PFS, toxicities



PFS: 2.0 months in refractory/resistant and 2.2 months in platinum-sensitive pts



OS: 5.3 months in refractory/resistant and 6.7 months in platinum-sensitive pts

(J Thorac Oncol. 2010;5: 1835–1840)

- Sorafenib induce una ORR 35%. MOS sin diferencias con los controles históricos

ITKs

| Molecule | Phase | Population | Pts, n | Conclusion | Reference |
|--------------------------|-------|---|--------|---|---|
| Gefitinib (anti-EGFR) | II | Relapsed, 2 nd line single-agent | 18 | No clinical activity | <i>Lung Cancer 2006</i> |
| Imatinib | II | | 29 | No clinical activity | <i>Ann Oncol 2005</i> |
| | II | Relapsed, 2 nd line single-agent | 12 | No clinical activity | <i>Cancer 2005</i> |
| | II | | 19 | No clinical activity | <i>Clin Cancer Res 2003</i> |
| | II | Maintenance therapy, single- agent | 8 | No clinical activity | <i>Clin Lung Cancer 2010</i> |
| | II | 1 st line with carboplatin/ irinotecan | 68 | No benefit versus chemotherapy alone | <i>J Thorac Oncol 2007</i> |
| Sunitinib | II | Maintenance after 4 cycles of chemotherapy in pts with SD or response | 16 | No improvement in PFS or OS | <i>Journal of Thoracic Oncology, 2011</i> |



BRIEF REPORT

Epidermal Growth Factor Receptor Mutations in Small Cell Lung Cancer

A Brief Report

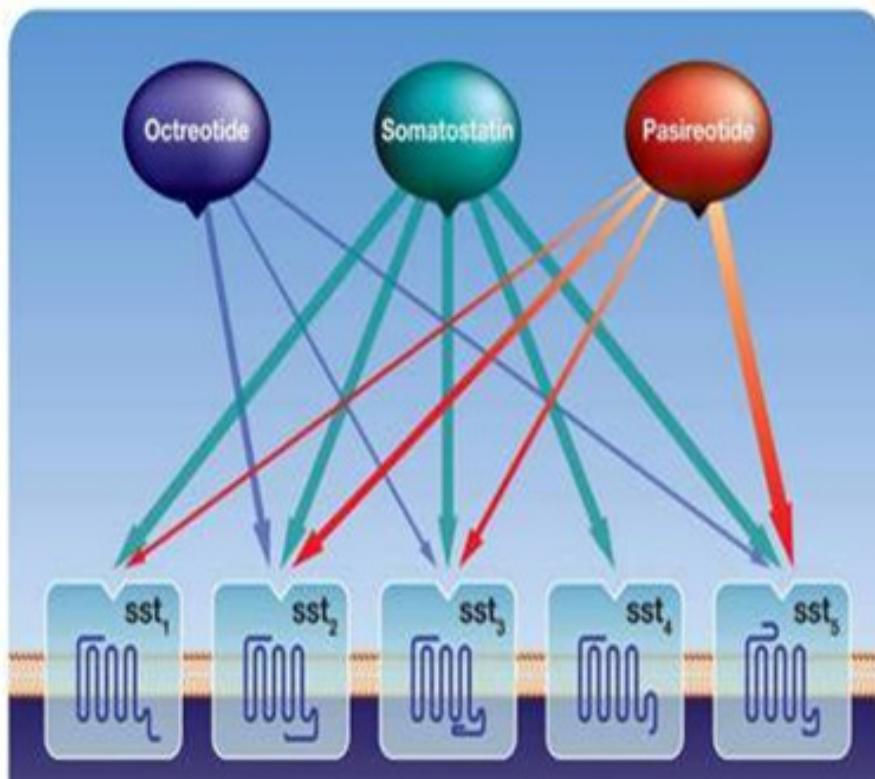
Tsu-Hui Shiao, MD,* Yih-Leong Chang, MD,† Chong-Jen Yu, MD, PhD,*
Yeun-Chung Chang, MD, PhD,‡ Ya-Chieh Hsu, MS,* Shih-Han Chang, MS,*
Jin-Yuan Shih, MD, PhD,* and Pan-Chyr Yang, MD, PhD*

Journal of Thoracic Oncology -Volume 6, Number 1, January 2011

Conclusions: The *EGFR* mutation is rare in SCLC patients. Despite the presence of the *EGFR* mutation, gefitinib may not be effective in treating SCLC patients.

Pasireotida

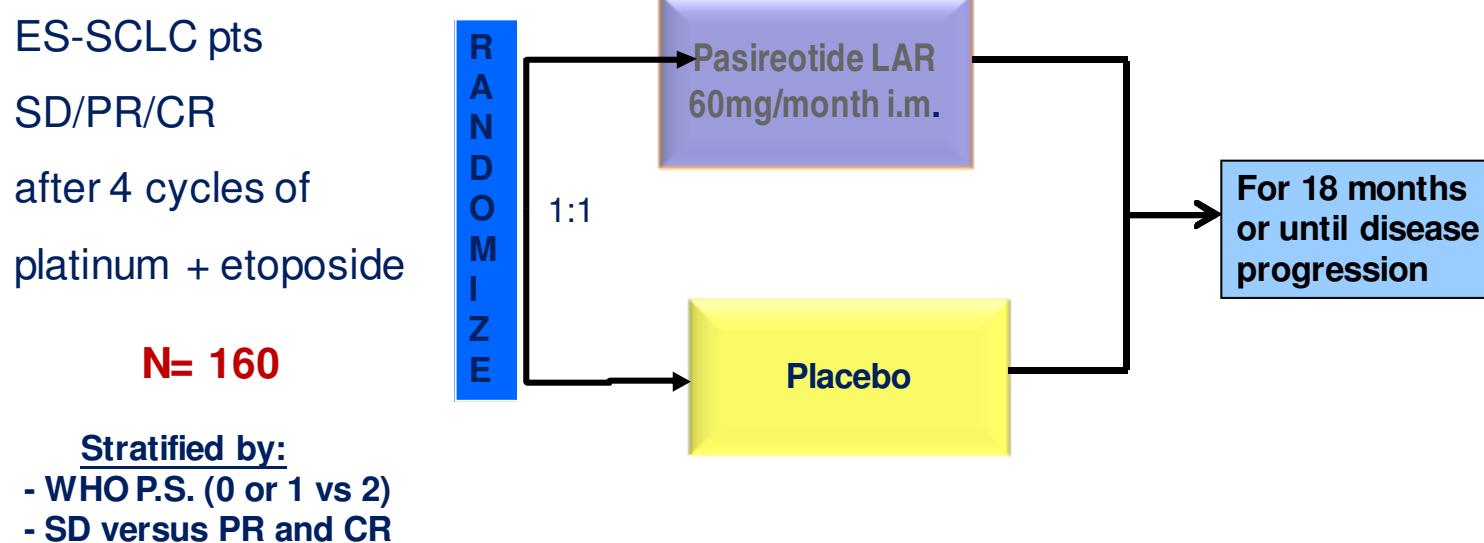
A Multi-Receptor Targeted Somatostatin Analogue



- A multi-receptor targeted somatostatin analogue with a unique receptor profile, with highest affinity for sst₅ as well as binding sst_{1,2} and 3.
- Somatostatin receptors are overexpressed in a range of tumors

PASIPHAE: Pasireotide maintenance therapy in ES- SCLC

Randomized, single blind, two-arm, placebo controlled, Phase II study



Primary endpoint:

- PFS

Secondary endpoints:

- Safety of Pasireotide
- OS
- Response rate by Recist 1.1.



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| | | |
|---|------------|---|
| 1 | Recruiting | Bronchoscopic Intratumoral Chemotherapy for Small Cell Lung Cancer (SCLC) |
|---|------------|---|

Condition: Small Cell Lung Cancer

Intervention: Drug: Cisplatin

| | | |
|---|------------|--|
| 2 | Recruiting | Clinical Randomized Study of Concurrent Chemo-radiotherapy vs Radiotherapy Alone to Local-advanced Small Cell Lung Cancer (SCLC) |
|---|------------|--|

Condition: Small Cell Lung Cancer

Intervention: Other: concurrent chemo-radiotherapy arm

| | | |
|---|-----------|--|
| 3 | Withdrawn | Hypoxia-guided Radiotherapy With Cisplatin-etoposide in Stage I-III : Small Cell Lung Cancer(SCLC) |
|---|-----------|--|

Condition: Small Cell Lung Cancer (SCLC)

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1 Unknown †

[Topotecan for Irinotecan-Refractory SCLC](#)

Conditions: Lung Cancer; Refractory to Chemotherapy

Intervention: Drug: topotecan

2 Active, not recruiting

[Study of Hsp90 Inhibitor, STA-9090 for Relapsed or Refractory Small Cell Lung Cancer](#)

Condition: Small Cell Lung Cancer

Intervention: Drug: STA-9090

3 Completed

[A Study of IRESSA in Relapsed and Refractory Small Cell Lung Cancer](#)

Condition: Small Cell Lung Cancer

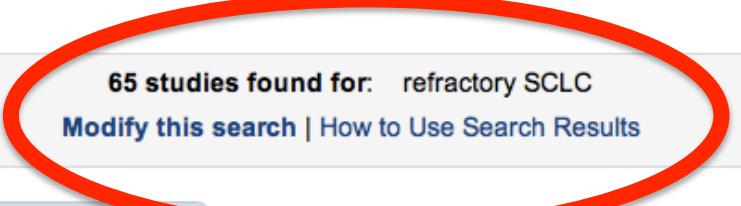
Intervention: Drug: Gefitinib

4 Terminated

[Pemetrexed in Patients With Chemosensitive and Chemoresistant Relapsed Small Cell Lung Cancer](#)

Condition: Small Cell Lung Cancer

Intervention: Drug: Pemetrexed



Estudios Fase III negativos CPNM 2000-2010

| Compound | Mechanism of action | Nº trials | N | End point |
|--------------|--|-----------|--------|-----------|
| Gefitinib | EGFR TKI | 8 | 5975 | OS |
| Erlotinib | EGFR TKI | 4 | 3661 | OS |
| Afatinib | EGFR/HER2 TKI | 1 | 585 | OS |
| Cetuximab | EGFR antibody | 1 | 676 | PFS |
| Prinomastat | Matrix metalloprotease inhibitor | 2 | 1048 | OS |
| Rebimastat | Matrix metalloprotease inhibitor | 1 | 774 | OS |
| PF-676 | Toll-like receptor 9-activating oligodeoxynucleotide | 2 | 1667 | OS |
| Aprinocarsen | Protein kinase C-alpha antisense oligonucleotide | 2 | 1286 | OS |
| Bexarotene | Retinoid X receptor activator | 2 | 1235 | OS |
| Lonafarnib | Farnesyl-transferase inhibitor | 1 | 675 | OS |
| Figitumumab | IGF-1R antibody | 1 | 681 | OS |
| Celecoxib | Cox2 inhibitor | 1 | 561 | OS |
| IL-2 | Cytokine | 1 | 241 | OS |
| Total | | 27 | 19 065 | |

Estudios con antiangiogénicos

| Compound | Mechanism of action | Nº trials | N | End Point |
|-------------|---------------------|-----------|------|-----------|
| Thalidomide | Anti-angiogenic | 2 | 1267 | OS |
| Cediranib | VEGFR TKI | 1 | 296 | OS |
| Vandetanib | Multikinase TKI | 3 | 2698 | PFS/OS |
| AE-941 | Anti-angiogenic | 1 | 379 | OS |
| Sorafenib | Multikinase TKI | 2 | 1830 | OS |
| Sunitinib | Multikinase TKI | 1 | 960 | OS |
| Aflibercept | VEGF/PIGF | 1 | 913 | OS |
| Total | | 11 | 8343 | |



CONCLUSIONES

- Se han desarrollado múltiples ensayos clínicos en CPM con resultados decepcionantes.
- Topotecan es el único fármaco aprobado por la FDA en 2^a línea de tratamiento (2012)
- Amrubicina es un fármaco prometedor en segunda línea en recaídas mal pronóstico