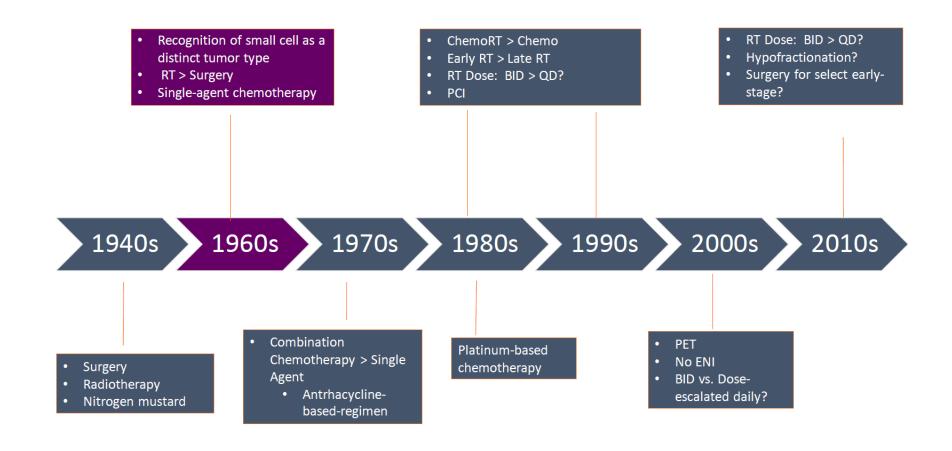
## Ακτινοθεραπεία στον Καρκίνο του Πνεύμονα

# Ακτινοθεραπεία μικροκυτταρικού καρκίνου πνεύμονα

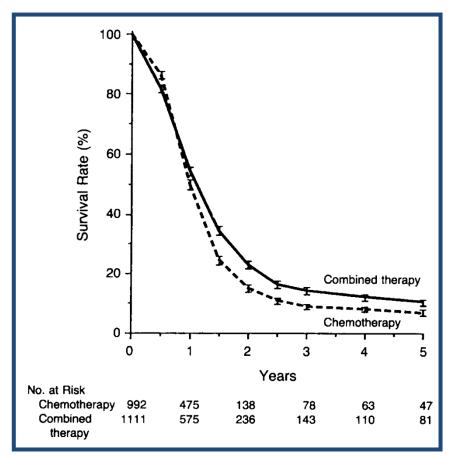
### Timeline of SCLC



### A META-ANALYSIS OF THORACIC RADIOTHERAPY FOR SMALL-CELL LUNG CANCER



Trial	CT + RT	СТ	0 5	Variance	Relative Risk
Trial -	CI + KI		U - E	- vanance	(CT + RT:CT)
Copenhagen (Østerlind)	69/69	74/76	11.2	34	
Sydney (Rosenthal)	44/45	48/49	-8.2	21.7	
NCI (Bunn)	46/48	46/49	-8.9	21.3	<del></del>
SECSG I (Birch)	123/153	111/142	-12.1	56.4	<del></del>
London (Souhami)	59/63	74/75	-7.9	32.5	<del>- 0</del> ¦  -
SWOG (Kies)	43/47	46/56	4	21.6	- 1 0
SAKK (Joss)	35/36	32/34	0.6	16.6	<del>-    -</del>
Uppsala (Nõu)	22/26	31/31	-4.5	12.5	
CALGB (Perry)	257/292	128/134	-20	75.9	<del>- D</del>
ECOG (Creech)					
Okayama (Ohnoshi)	22/28	27/28	-4.8	12	
SECSG II (Birch)	116/154	140/168	-10.4	63.1	<del>   -   -   -   -   -   -   -   -  </del>
GETCB (Lebeau)	14/19	12/17	1	6.4	
Total	972/1111	890/992	-67.2	433.8	<b>T</b>
$r_{12}^2 = 16.95$ by test for he	terogeneity	· P = 0.15		0	0.5 1.0 1.5 2 T + RT better CT better



ABSOLUTE IMPROVEMENT IN 3-YEAR OVERALL SURVIVAL: 5.4% (8.9 → 14.3)

#### A Meta-Analysis of the Timing of Chest Irradiation in the Combined Modality Treatment of Limited-Stage Small Cell Lung Cancer



#### 8 randomized controlled trials, 1574 pts

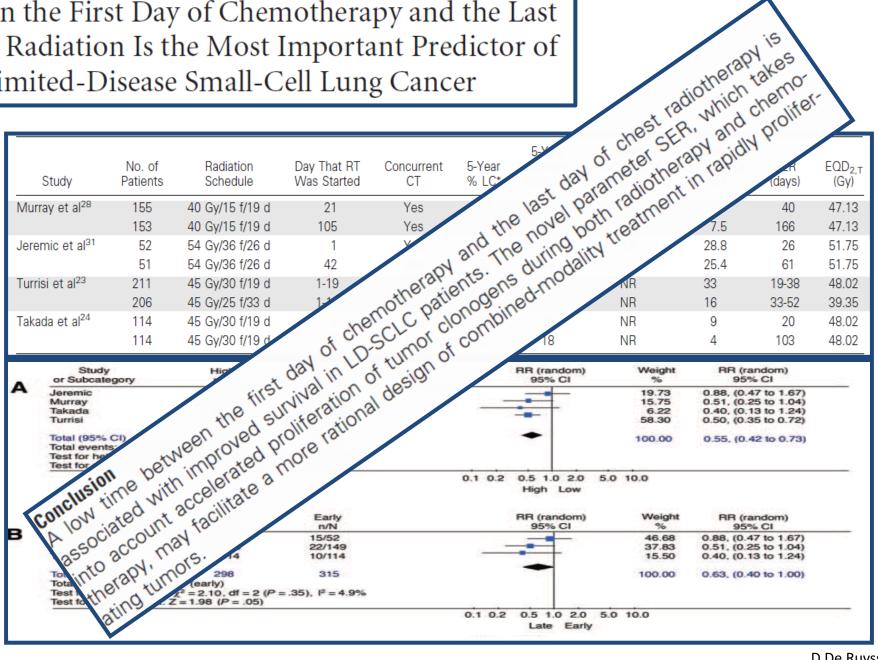
Initial concurrent CT-RT results superior to delayed or split course treatment.

EARLY RT: 60% survival at 2 years (OR 1.6); confirmed at 3 years (49%).

Platinum-Etoposide should be the standard regimen.

Time Between the First Day of Chemotherapy and the Last Day of Chest Radiation Is the Most Important Predictor of Survival in Limited-Disease Small-Cell Lung Cancer





# TWICE-DAILY COMPARED WITH ONCE-DAILY THORACIC RADIOTHERAPY IN LIMITED SMALL-CELL LUNG CANCER TREATED CONCURRENTLY WITH CISPLATIN AND ETOPOSIDE



#### BID TRT benefit:

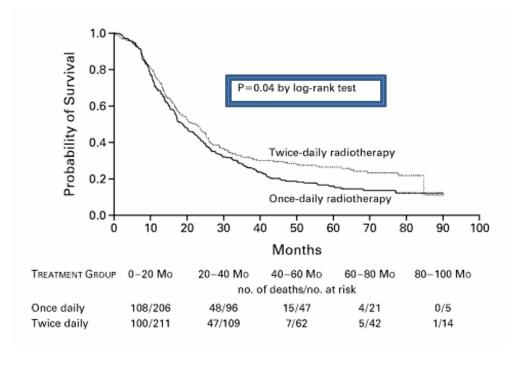
median survival significantly longer: 23 vs. 19 months

2yr survival: 47% vs. 41%

5yr survival: 26% vs. 16%

Local failure QD 52% vs BID 36% (p=0.06)

Toxicity: Grade 3 esophagitis QD 11% vs.
27%, no difference in Grade 4 esophagitis
Summary: established 45 Gy given twice daily over 3 weeks as standard regimen



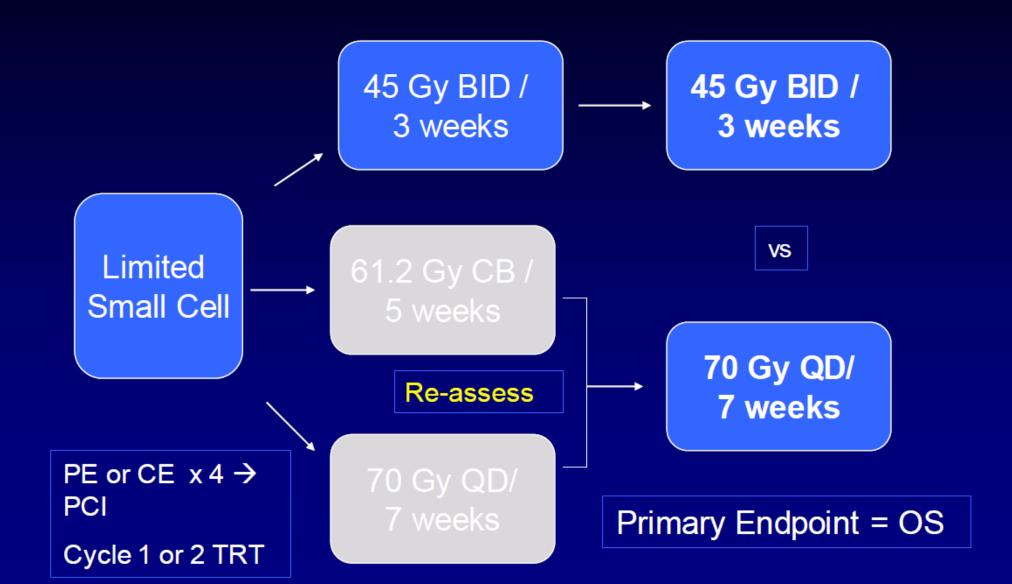
### Conclusions

Survival in both arms was higher than previously reported

 Radiation-related toxicities were lower than expected likely due to the use of modern RT techniques

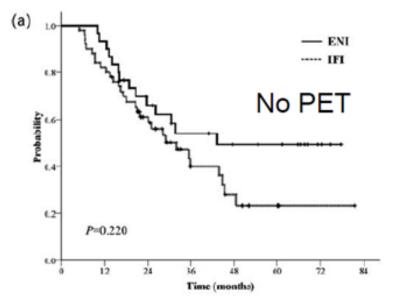
 OD RT did not result in a superior survival or worse toxicity than BD RT

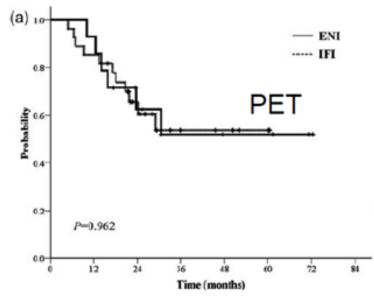
### Phase III: CALGB 30610/ RTOG 0538



# Comparison of Treatment Outcomes Between Involved-field and Elective Nodal Irradiation in Limited-stage Small Cell Lung Cancer







- IFRT appears ok in PET-staged patients
- ENI was utilized in Turrisi trial
- IFRT being investigated prospectively in Europe and RTOG