

Treatment of Older Adult Patients with Non-Small Cell Lung Cancer

Presented by:

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Moderated by Mark Geisler

NCCN, Conferences and Meetings Department

Supporters

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Accreditation Information

Intended Audience

This educational program is designed to meet the educational needs of oncologists, nurses, pharmacists, and other health care professionals who manage patients with lung cancer.

Learning Objectives

Following this program, participants should be able to:

- Apply into practice tools--such as risk factor algorithm, frailty assessment, geriatric assessment, and performance status--to assess whether older patients with NSCLC can tolerate certain therapeutic interventions.
- Assess the risks and benefits of therapeutic interventions in the management of older patients with NSCLC who are at higher risk for adverse events from therapy.

Accreditation Information

Physicians

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Kristina M. Gregory, RN, MSN, OCN, is our lead nurse planner for this educational activity.

Accreditation Information

Pharmacists

Pharmacy Educational Objective: After completing this activity, the participant should be able to:
Provide accurate and appropriate counsel as part of the treatment team.

Accreditation Statement

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<u>Type of Activity</u>: Knowledge **UAN:** 0836-0000-16-076-L01-P

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Accreditation Information

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Accreditation Information

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 - The post-test and evaluation as indicated in e-mail you will receive within 3-5 business days of the conclusion of this activity. This is required to receive credits or your certificate of completion. You must be registered in advance to receive credits or certificate. Certificates will be generated automatically upon successful completion of this step.
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Faculty Disclosures

The faculty listed below have disclosed the following relevant financial relationships:

Neelesh Sharma, MD, PhD

Astellas: Grant/Research Support

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Plexxikon: Grant/Research Support

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The activity planning staff listed below has no relevant financial relationships to disclose:

Ann Gianola, MA; Mark Geisler; Kristina M. Gregory, RN, MSN, OCN; Kristin Kline Hasson; Rose Joyce; Joan S. McClure, MS; Diane McPherson; Melanie Moletzsky; Deborah Moonan, RN, BSN; Lisa Perfidio; Liz Rieder; Shannon K. Ryan; Kathy Smith; Jennifer McCann Weckesser

The NCCN clinical information team listed below, who have reviewed content, has no relevant financial relationships to disclose:

Ellen Erkess; Kristina M. Gregory, RN, MSN, OCN; Miranda Hughes, PhD

Faculty Biography

Neelesh Sharma, MD, PhD, is Assistant Professor of Medical Oncology at University Hospitals of Case Comprehensive Cancer Center and Case Western Reserve University in Cleveland, OH.

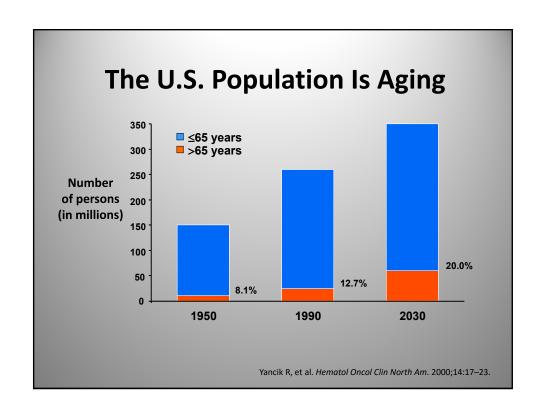
- Dr. Sharma earned his medical degree from G.S.V.M Medical College Kanpur in India and his doctorate of philosophy in pharmacology and toxicology from the University of Georgia. He completed a residency in internal medicine at the John H. Stroger, Jr. Hospital of Cook County and a fellowship in medical oncology at Roswell Park Cancer Institute, where he served as a Chief Fellow. He is board-certified in internal medicine, with a subspecialty in medical oncology.
- Dr. Sharma specializes in the treatment of thoracic malignancies including lung cancer, mesothelioma and thymic cancer. His research interests include development of targeted therapies based on genomic alterations in lung cancer and early phase trials in developmental therapeutics program. He is studying how combination of novel drugs can circumvent or prevent emergence of acquired resistance to EGFR directed therapies.
- Dr. Sharma is Principal Investigator (PI) or Co-PI for several ongoing clinical trials examining the efficacy of novel agents for the treatment of non-small cell lung cancer and other advanced malignancies. He is a member of various professional and scientific societies, including the Eastern Cooperative Oncology Group Thoracic Core Committee. He has authored and reviewed various scientific articles, abstracts, book chapters in prominent journals.

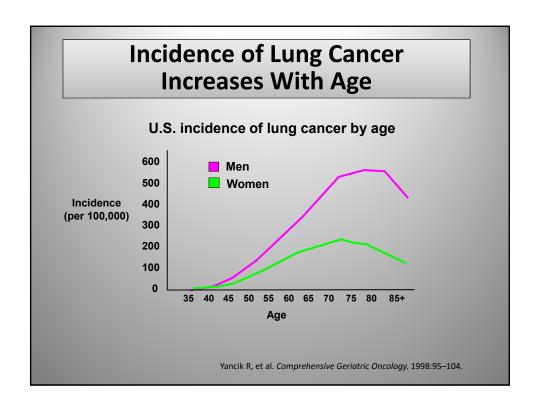


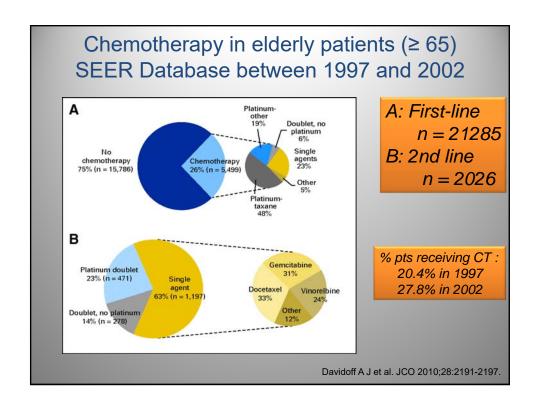
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Elderly Lung Cancer Patients are Under-Represented on Clinical Trials

- 60% of lung cancer patients are ≥60
- 35% 40% of lung cancer patients are ≥70
- Elderly representation on Trials

Study	<u>% ≥70</u>
E5592	15%
S9509/9305	19%
E1594	20%
CALGB 9730	27%
UNC	29%

CHALLENGES SPECIFIC TO ELDERLY PATIENTS

Heterogeneity in functional status

Age-related organ function decline

Alterations in Pharmacokinetics (excretion, metabolism, distribution and absorption)

Polypharmacy

Compromised immune responses

Lower marrow regenerative capacity

Comorbid conditions

Quality of life issues (in relation to life expectancy)

CARG (The Cancer and Aging Research Group) model for predicting chemotherapy toxicity in older adults

Age ≥72 years

Cancer type GI or GU

Chemotherapy dosing, standard dose

Number of chemotherapy drugs, polychemotherapy

Hemoglobin <11 g/dL (male), <10 g/dL (female)

Creatinine clearance (Jelliffe, ideal weight) <34 mL/min

Hearing, fair or worse

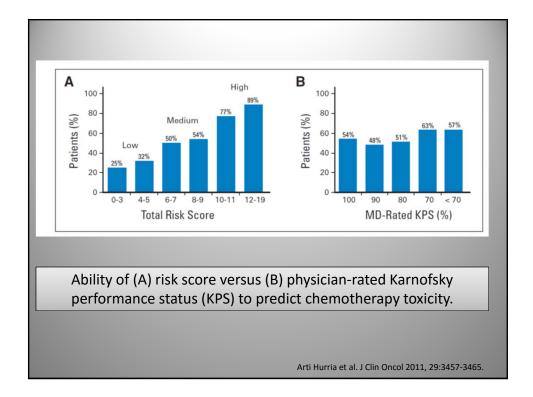
Number of falls in last six months, one or more

IADL (instrumental activities of daily living): Taking medications, with some help/unable

MOS (Medical Outcomes Study): Walking one block, somewhat limited/limited a lot

MOS: Decreased social activity because of physical/emotional health, limited at least sometimes

Arti Hurria et al. J Clin Oncol 2011, 29:3457-3465



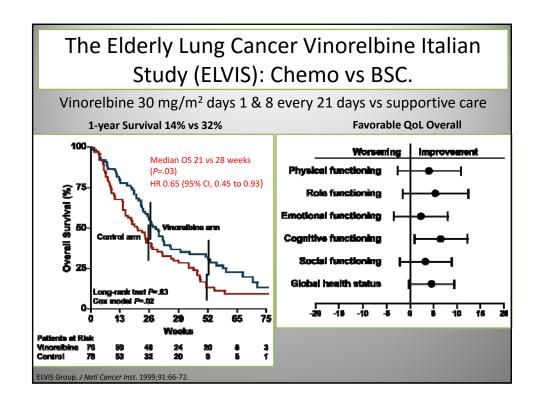
Patient is 85 year old female with newly diagnosed lung adenocarcinoma with mets to liver and bones. Negative for EGFR mutation, ALK or ROS-1 rearrangement. She has ECOG performance status of 1 and no significant co-morbidities.

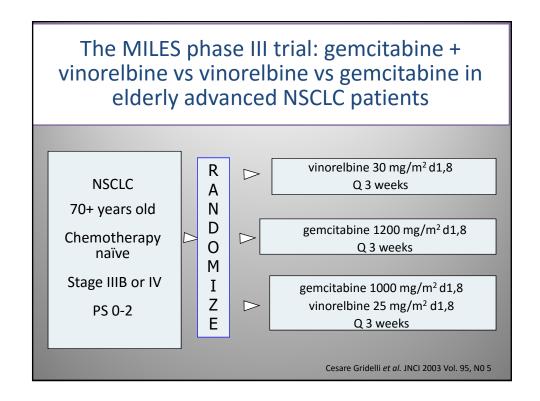
What would be the best approach for first line treatment?

- 1. Supportive Care Only
- 2. Single agent Vinorelbine
- 3. Single agent Gemcitabine
- 4. Carboplatin and Pemetrexed
- 5. Carboplatin, Paclitaxel and Bevacizumab

Treatment of Elderly Patients with Metastatic NSCLC

- Is chemotherapy better than best supportive care?
- Platinum based therapy or non-platinum?
- Single agent vs doublet?
- Bevacizumab or not?
- Other targeted agents?





ITT Analysis of Efficacy				
	VNR	GEM	VNR+GEM	
No of patients (n)	233	233	232	
Stage IIIB (%)	29	30	31	
Response rate (%)	18	16	21	
Time to Progression (wk)	18	17	19	
Median Survival (weeks)	36 (30-45)	28 (25-34)	30 (27-36) HR 1.17 (vs VNR) HR 1.06 (vs GEM)	
1 yr survival (%)	41%	26%	31%	

ECOG 5592: Elderly Data

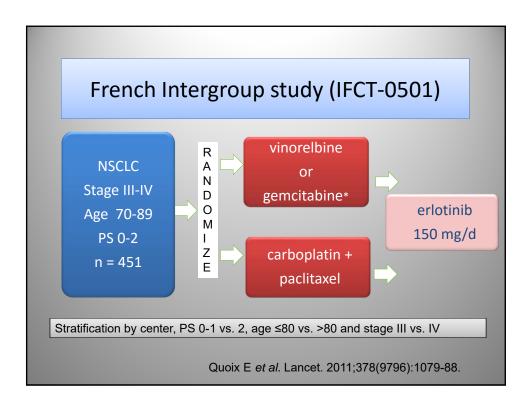
- Patients randomized to cisplatin 75 mg/m² &
 - etoposide 100 mg/m² d 1-3
 - paclitaxel 135 mg/m²
 - paclitaxel 250 mg/m² + G-CSF
- BREAKDOWN by Elderly (≥ 70) v "Young" (<70)
 - Elderly: ↑ cardiovascular (p=0.0089) + resp (p=0.0441) co-morbidities

Age	N	RR (%)	TTP (mo)	MS (mo)	1 YS (%)	2 YS (%)
<70	488	21.5	4.37	9.05	38	14
≥70	86	23.3	4.30	8.53	28	12
P value		0.666	0.294	Log	rank 0.2857	•

- ↑ leukopenia (p=0.0001) and neuropsych tox (0.0025) in \ge 70 yrs
- No difference baseline QoL, Trial outcome index

Langer et al., JNCI 94(3): 173-181, 2002.

Cesare Gridelli et al. JNCI 2003 Vol. 95, NO 5.



Progression Free Survival (PFS) • Doublet chemotherapy • Median PFS: 6.1 months (95% CI 5.5-6.9) • 1-year PFS: 15.4% (95% CI 10.8-20.8) • Monotherapy • Median PFS: 3.0 months (95% CI 2.6-3.9) • 1-year PFS: 2.3% (95% CI 0.8-5.3)

Overall Survival (OS)

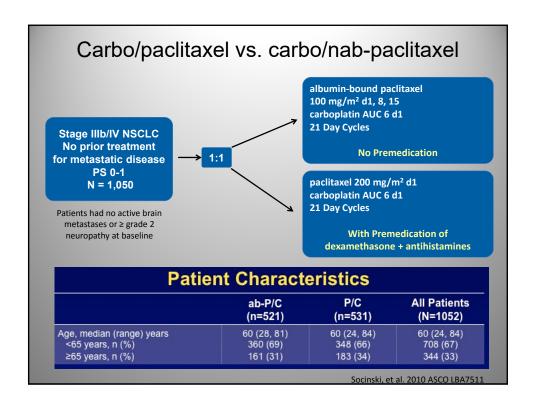
- Doublet chemotherapy
 - Median OS = 10.3 months (95% CI 8.3-13.3)
 - 1-year survival 45.1% (95% CI 38.2-51.8)
- Monotherapy
 - Median OS = 6.2 months (95% CI 5.3-7.4)
 - 1-year survival 26.9% (95% CI 21-33.1)

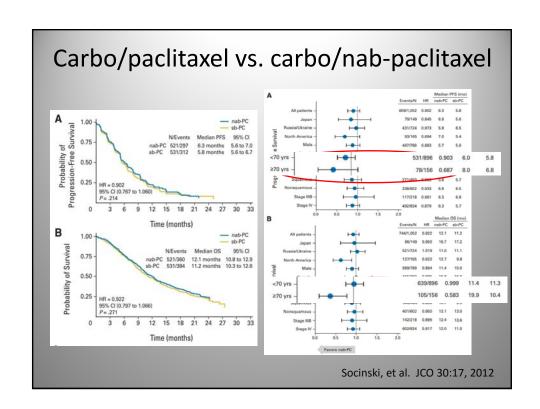
Quoix E et al. Lancet. 2011;378(9796):1079-88.

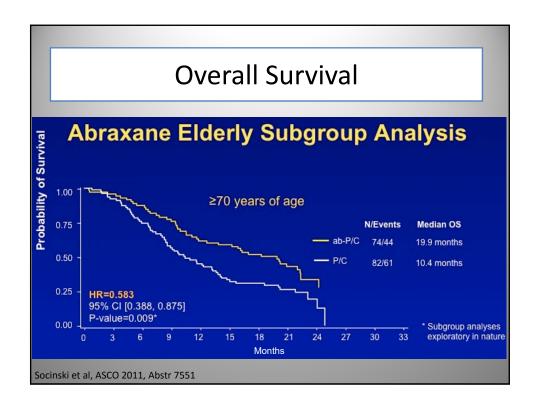
Adverse Events

- Overall well tolerated
- Grade 3 or 4 neutropenia was more common with the combination compared with monotherapy (48 versus 12 percent).
- Ten deaths (4.4 percent) in the combination arm were attributed to treatment, compared with three (1.3 percent) in the monotherapy group.

Quoix E et al. Lancet. 2011:378(9796):1079-88.



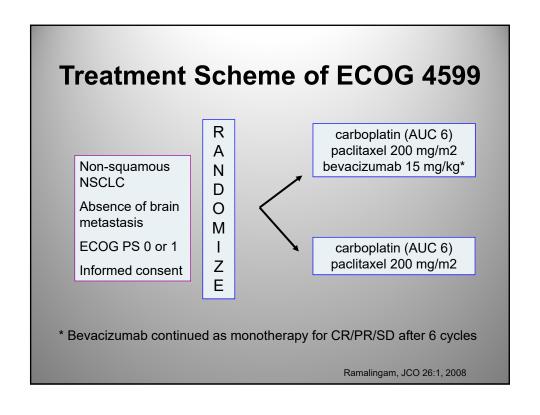


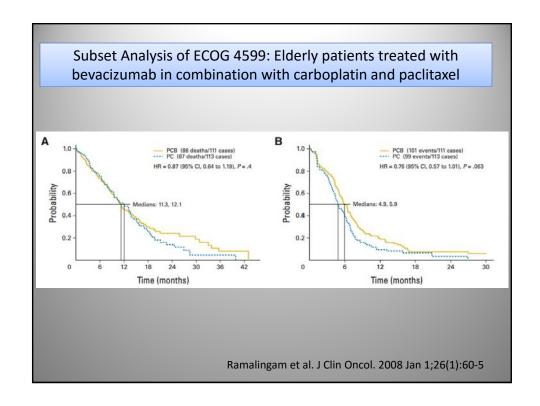


Ongoing prospective studies of nab-paclitaxel for elderly patients with NSCLC				
Trial ID	Title	Treatment	Primary Outcome	
NCT02151149	Phase IV study of nab-paclitaxel (A) in Combination With carboplatin (C) as First Line Treatment in Elderly Subjects With Advanced NSCLC (Abound.70+)	Arm A: A 100 mg/m2 IV on Days 1, 8, and 15 and C AUC = 6 every 21-day Arm B: A 100 mg/m2 IV on Days 1, 8, and 15 and C AUC = 6 every 28-day	Peripheral neuropathy or myelosuppression	
NCT01702844	Phase II, single arm Study of the tolerability of weekly A as second line treatment for elderly patients with NSCLC	A 100 mg/m2 IV on Days 1, 8, and 15 every 28 days	Grade 3 or worse toxicity after 6 cycles or 3 weeks after discontinuation of treatment	
NCT02590003	A Randomized Phase II Trial of Combination Versus Single Agent Chemotherapy in High- risk Elderly Patients With Advanced NSCLC	Arm A: A 100 mg/m2 IV on Days 1 and 8 and C AUC = 5 every 21-day Arm B: A 100 mg/m2 IV on Days 1 and 8 every 21-day	Progression Free Survival	

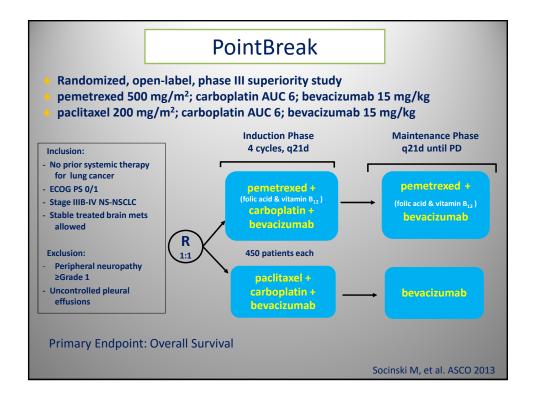
Cis/pem vs. cis/gem elderly data (Nonsquamous patients)					
Age < 65 Years Age ≥ 65 Years n = 815 (67.2%) n = 398 (32.8%)					
Toxicity	Pem + Cis (n = 390)	Gem + Cis (n = 425)	Pem + Cis (n = 215)	Gem + Cis (n = 183)	HR OS (all favor pem):
Thrombocytopenia	11 (2.8)	34 (8.0)	11 (5.1)	32 (17.5)	Subgroup <65: .0.89 Subgroup >65: .0.75
Neutropenia	45 (11.5)	107 (25.2)	45 (20.9)	49 (26.8)	Subgroup <u>></u> 050.75
Anemia	23 (5.9)	43 (10.1)	7 (3.3)	19 (10.4)	Subgroup <70: .0.83
Leukopenia	15 (3.8)	34 (8.0)	11 (5.1)	12 (6.6)	Subgroup ≥70: .0.85
Diarrhea Without Colostomy	6 (1.5)	5 (1.2)	1 (0.5)	4 (2.2)	
Fatigue	26 (6.7)	15 (3.5)	14 (6.5)	12 (6.6)	
Febrile Neutropenia	2 (0.5)	12 (2.8)	6 (2.8)	8 (4.4)	
Nausea	32 (8.2)	17 (4.0)	17 (7.9)	10 (5.5)	
Vomiting	27 (6.9)	29 (6.8)	11 (5.1)	9 (4.9)	
Gridelli et al, Clinical I	Gridelli et al, Clinical Lung Cancer, 13:5, 2012.				

T	Age < 65 Years Age ≥ 65 Years n = 319 (67%) n = 157 (33%)				
Toxicity	Pem (n = 217)	Placebo (n = 102)	Pem (n = 103)	Placebo (n = 54)	HR OS (all favor pem):
Neutropenia	6 (2.7)	0	3 (2.9)	0	Subgroup <65: .0.62
Anemia	4 (1.8)	0	4 (3.8)	0	Subgroup <u>></u> 65: .0.87
Fatigue	6 (2.7)	0	7 (6.7)	1 (1.9)	Subgroup <70: .0.63
Neuropathy: Sensory	1 (0.5)	0	2 (1.9)	0	Subgroup <u>></u> 70: .0.81
Constipation	1 (0.5)	0	0	1 (1.9)	
Distention/Bloating, Abdominal	1 (0.5)	0	0	1 (1.9)	

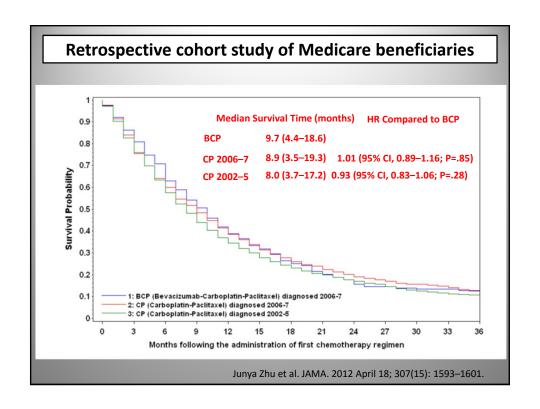




Safety in E4599				
cidence of gr 3–5 AEs was significantly higher for PCB vs. PC alone				
Age	PC + Bev	PC		
Grade 3–5 toxicity ^a <75 y	years 63%	48%		
Grade 3–5 toxicity ^a ≥75 y	years 81%	56%		
Grade 5 toxicity ≥75 year	rs 8%	2%		
°P <.005	rs 8% ue to AEs also higher for PC			
^a P <.005				
es for discontinuations d	ue to AEs also higher for PC	C + Bev vs. PC alone		



	Age 65-74	Bevacizumab + PC vs. PC: ❖ OS: HR 0.80 (0.64-1.00) ❖ PFS: HR 0.62 (0.49-0.78)
Pooled analysis of Phase III E4599 and Point Break Randomized Clinical Trials Treatment: Avastin + PC vs. PC	Age 65-74	❖ OS: HR 0.68 (0.48-0.96) ❖ PFS: HR 0.57 (0.40-0.81)
	Age <75	❖ OS: HR 0.78 (0.68-0.89) ❖ PFS: HR 0.69 (0.60-0.79)
	Age ≥75	❖ OS: HR 1.05 (0.70-1.57) ❖ PFS: HR 0.95 (0.62-1.44)
PC: paclitaxel and carboplatin		Langer et al. Am J Clin Oncol. 2015



Patient is 82 year old male with T3N1 M0 lung adenocarcinoma, s/p right lower lobectomy and mediastinal nodal dissection. Patient has recovered well from surgery and has ECOG performance status of 0 with no significant co-morbidities.

What would be the appropriate adjuvant chemotherapy?

- A. No need for adjuvant chemotherapy
- B. Cisplatin and Vinorelbine
- C. Carboplatin and Paclitaxel
- D. Cisplatin, Vinorelbine and Bevacizumab

Adjuvant Chemotherapy

- The standard for patients with stages IB to IIIA (high-risk) NSCLC is postoperative cisplatin-based combination chemotherapy for four cycles.
- The LACE (Lung Adjuvant Cisplatin Evaluation) meta-analysis reviewed all five cisplatin-containing trials with 4,584 patients; that study reported an overall survival benefit of 5.4% at 5 years.

Pignon JP et al. J Clin Oncol 2008;26(21):3552-3559.

An age-based analysis of the LACE data

- ❖ An age-based analysis of the LACE data showed no difference in survival among the age groups of younger than 65 (n=3269), 65 to 70 (901) and older than 70 years (n=414).
- Elderly patients received significantly lower cisplatin doses and fewer chemotherapy cycles.
- Rates of severe toxicity were comparable between groups.

Martin Frűh et al. J Clin Oncol 2008, 26:3573-3581.

Ontario Cancer Registry Data

- Outcome of elderly (≥70 years) patients (n=2763) treated before (2001–2003) or after (2004–2006) the adoption of adjuvant chemotherapy.
- The cisplatin/vinorelbine combination was the most frequently used doublet across all age groups.
- Adjuvant chemotherapy administration was associated with a significant survival benefit in the elderly (although not for patients older than 80 years, n = 282) with tolerability similar to that of patients <70 years.</p>

Sinead Cuffe et al. J Clin Oncol 2012, 30:1813-1821.

- Wisnivesky et al. reported the data from SEER database for 3,324 patients who were 65 years of age or older. No survival advantage was observed in patients older than age 80 years (HR, 1.33; 95% CI, 0.86 to 2.06).
- Comparison of carbo vs cisplatin based adjuvant chemotherapy in SEER-Medicare database showed comparable OS benefit and a slightly better toxicity profile.

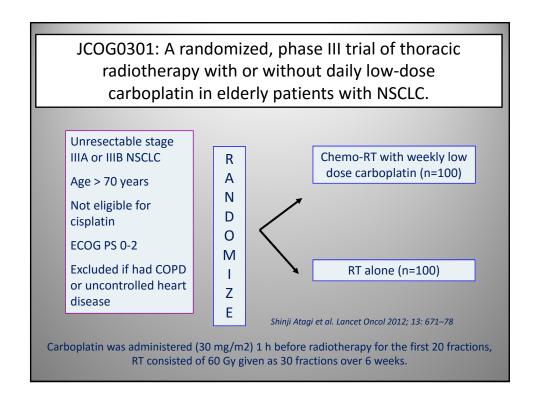
Wisnivesky et al. BMJ 2011, 343:d4013 and (J Clin Oncol 29: 2011 (suppl; abstr 7014)

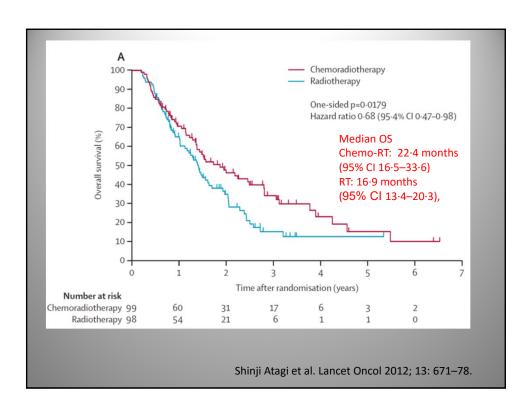
Adjuvant Chemotherapy in Elderly

- Adjuvant chemotherapy is associated with survival benefit in the elderly and therefore it should not be denied to these patients.
- ➤ The benefit of adjuvant chemotherapy has not been established in patients 80 years of age or older and should be undertaken with extra caution.
- Although there is lack of prospective data, carboplatin based regimen may be acceptable when patient is not a cisplatin candidate.

Locally Advanced NSCLC

- Elderly patients with locally advanced NSCLC are more likely to receive no treatment.
 - In one large series by Davidoff et al. based on SEER registry (n = 6325 patients, ≥66 years), 34% of these patients received no treatment at all.
 - Similarly Veterans Affairs Central Cancer Registry
 (n = 4635 patients, ≥65 years) reported that 35% of patients
 received no treatment.
- Mixed data from the retrospective analyses of large randomized trials. Most post 2000 trials showed similar benefit of CRT (concurrent or sequential) compared to younger patients with increased toxicity. (NCCTG 94-24-52, CALGB and RTOG 94-10)





Adverse Events

- ❖ Higher grade 3–4 hematological toxicity in Chemo-RT group than in the radiotherapy alone group. Neutropenia (57.3% vs none), and thrombocytopenia (29.2% vs 2.0%).
- Higher Grade 3 infection in Chemo-RT group (12.5%) than with radiotherapy (4.1%).
- Similar incidences of grade 3–4 pneumonitis and late lung toxicities between groups.

Shinji Atagi et al. Lancet Oncol 2012; 13: 671-78

- ➤ Only prospective randomized study showing benefit of CRT over RT alone in elderly.
- Several Limitations...
 - RT alone is not considered standard treatment for fit elderly patients
 - Weekly carboplatin/RT is not standard for concurrent chemo-RT for locally advanced disease.
 - Study only included Asian, good performance status (96.4% pts had PS 0 and 1)
 - Patients had limited co-morbidities (pts with COPD and uncontrolled heart disease were excluded).
 - Study did not include geriatric functional assessment of patients.
- Extrapolation of its conclusions to the general elderly western population should be made with caution.

Early Stage Disease

- ➤ Limited resections and omission of systematic mediastinal lymphadenectomy can be considered in the elderly on the basis of retrospective data.
- Pneumonectomy should be avoided when possible given the higher mortality associated with this procedure.
- > VATS might be an option for elderly since it is associated with lower incidence of postoperative morbidity.
- ➤ For elderly patients who are not operable for medical reasons, SABR (stereotactic radiation) could represent an alternative with less adverse events and similar outcome, although prospective data are needed.

A. G. Pallis et al. Annals of Oncology 25: 1270-1283, 2014

Q&A SESSION

Please use the Q&A feature on the right-hand portion of your screen to submit clinical questions to the speaker.

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 Contact education@nccn.org should you not receive the e-mail within 7 business days.
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