

Chemoradiation in Carcinoma Larynx

Panelists

Aditi Agrawal JNMCH, AMU, Aligarh

Chebolu Rushikesh Goud, Rangaraya Medical College, Kakinada

Aditya Ambesh, RMLIMS Hospital, Lucknow

Drashti Patel, GCRI, Ahmedabad

Chintam Datta Sindhu, Sri Shankara Cancer Hospital and Research Centre, Bengaluru

Moderator

Cessal Thommachan Kainickal, RCC, Trivandrum

Ca Larynx-III&IV

Stage III	T3	N0	M0
	T1-T3	N1	M0
Stage IVA	T1-T3	N2	M0
	T4a	N0-N2	M0
Stage IVB	Any T	N3	M0
	T4b	Any N	M0
Stage IVC	Any T	Any N	M1

What constitute T3 disease in Ca Larynx?

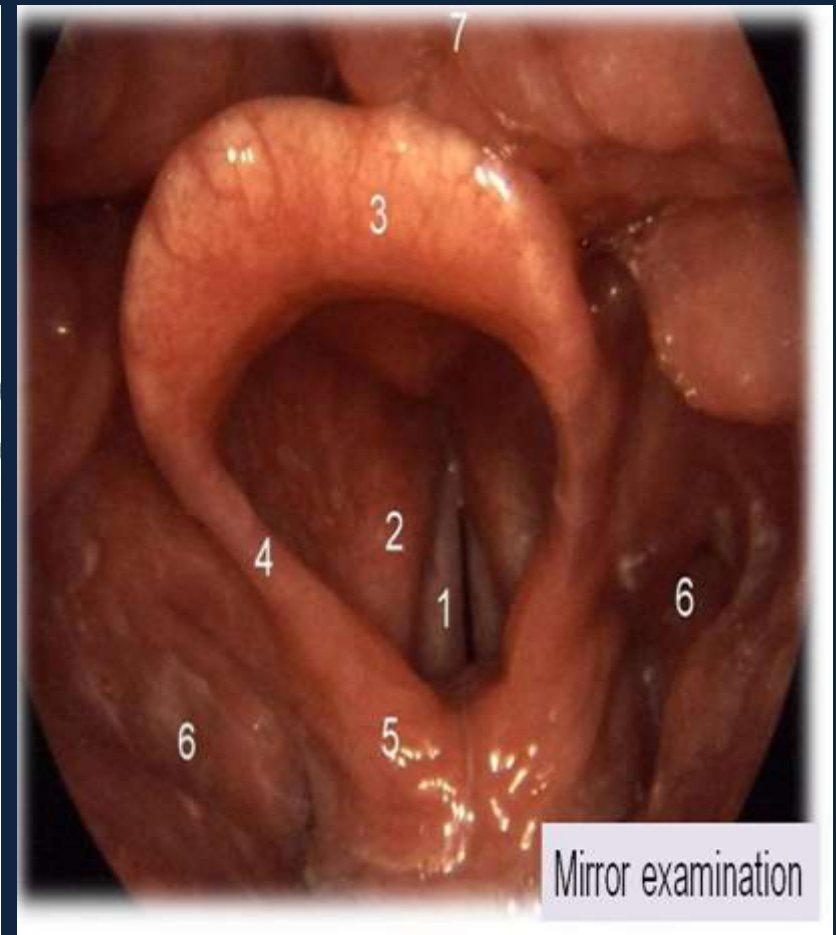
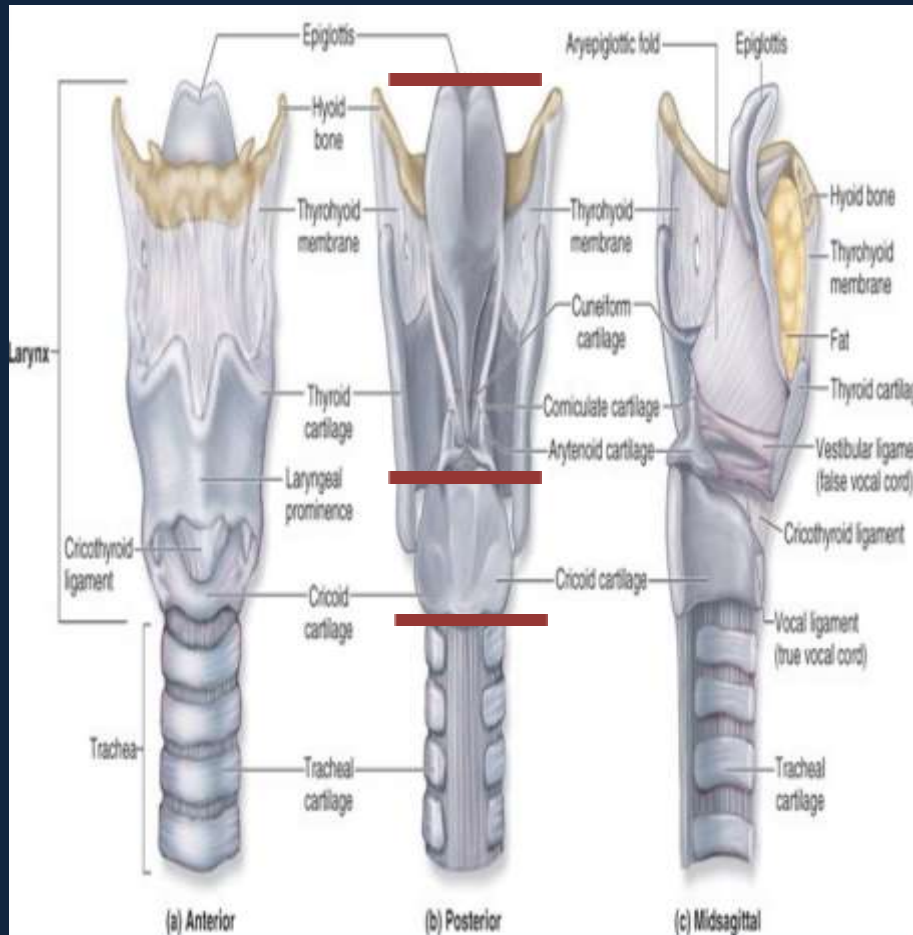
Dr Aditi Agrawal

T3 Larynx - 5 features

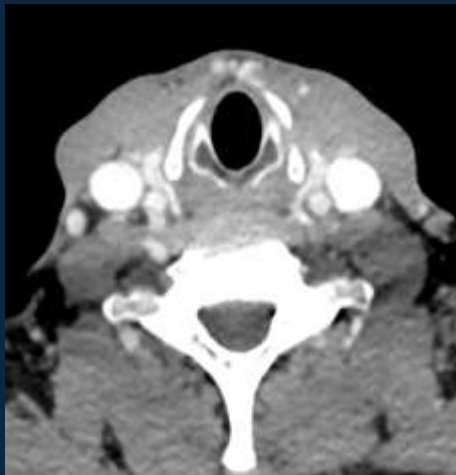
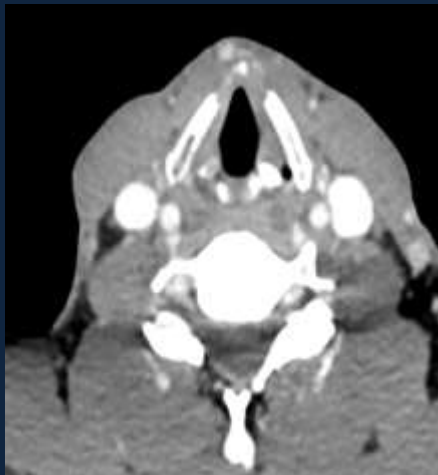
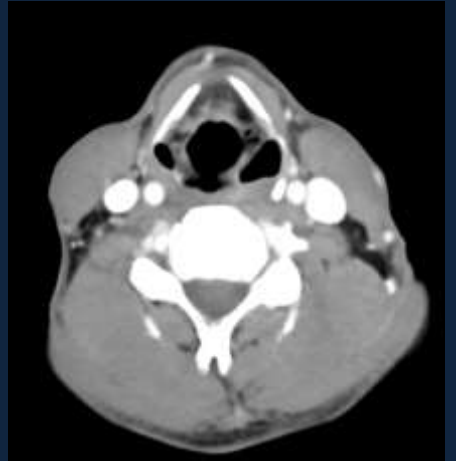
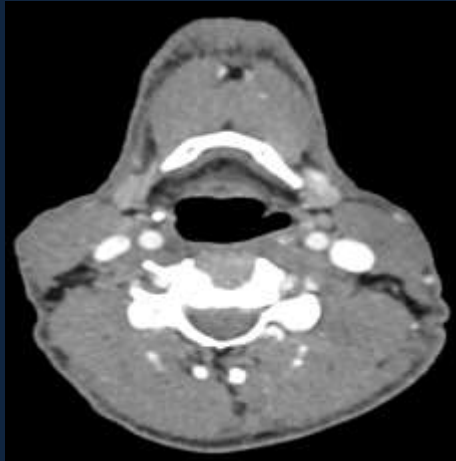
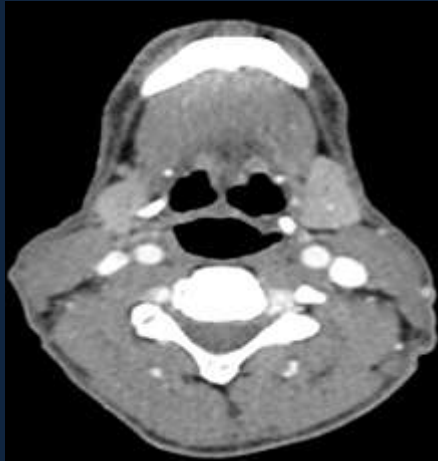
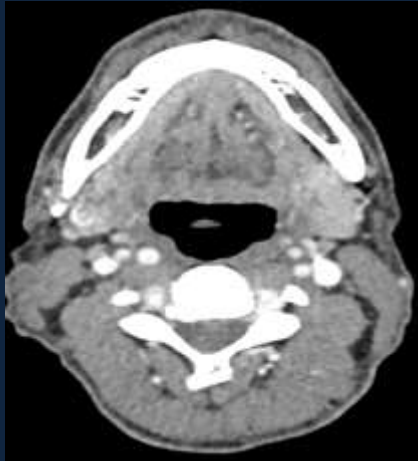
- Hemi larynx fixity
- Post cricoid +
- Paraglottic involvement
- Preepiglottic space
- Inner cortex +

Anatomy

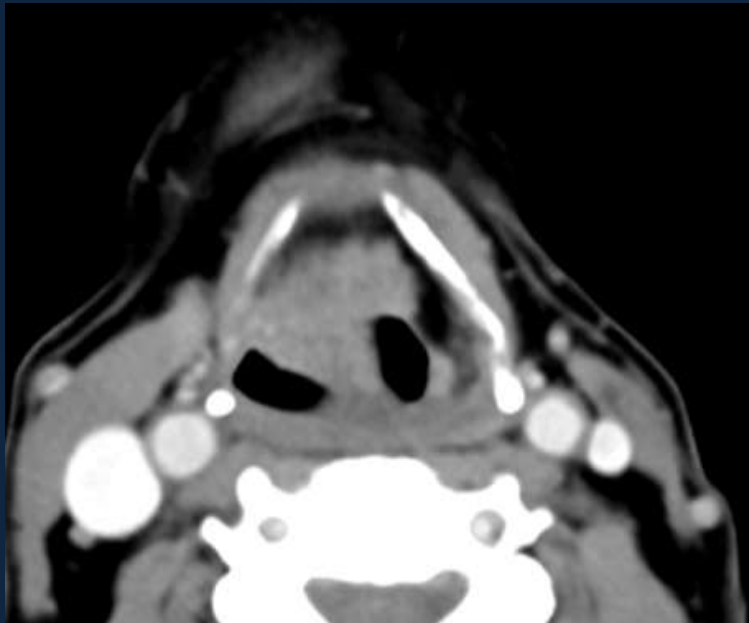
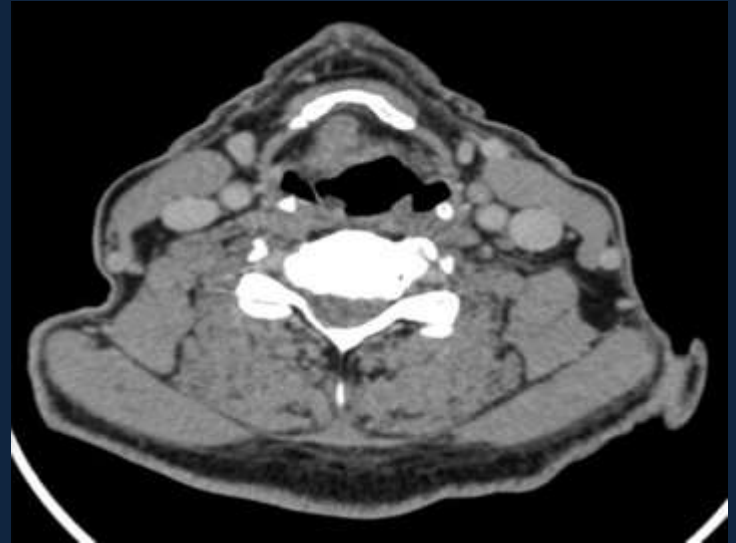
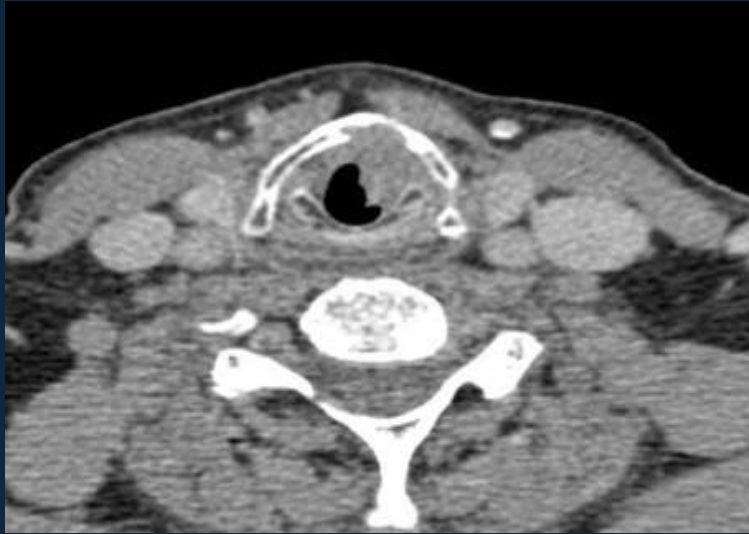
Mirror examination



CT scan larynx



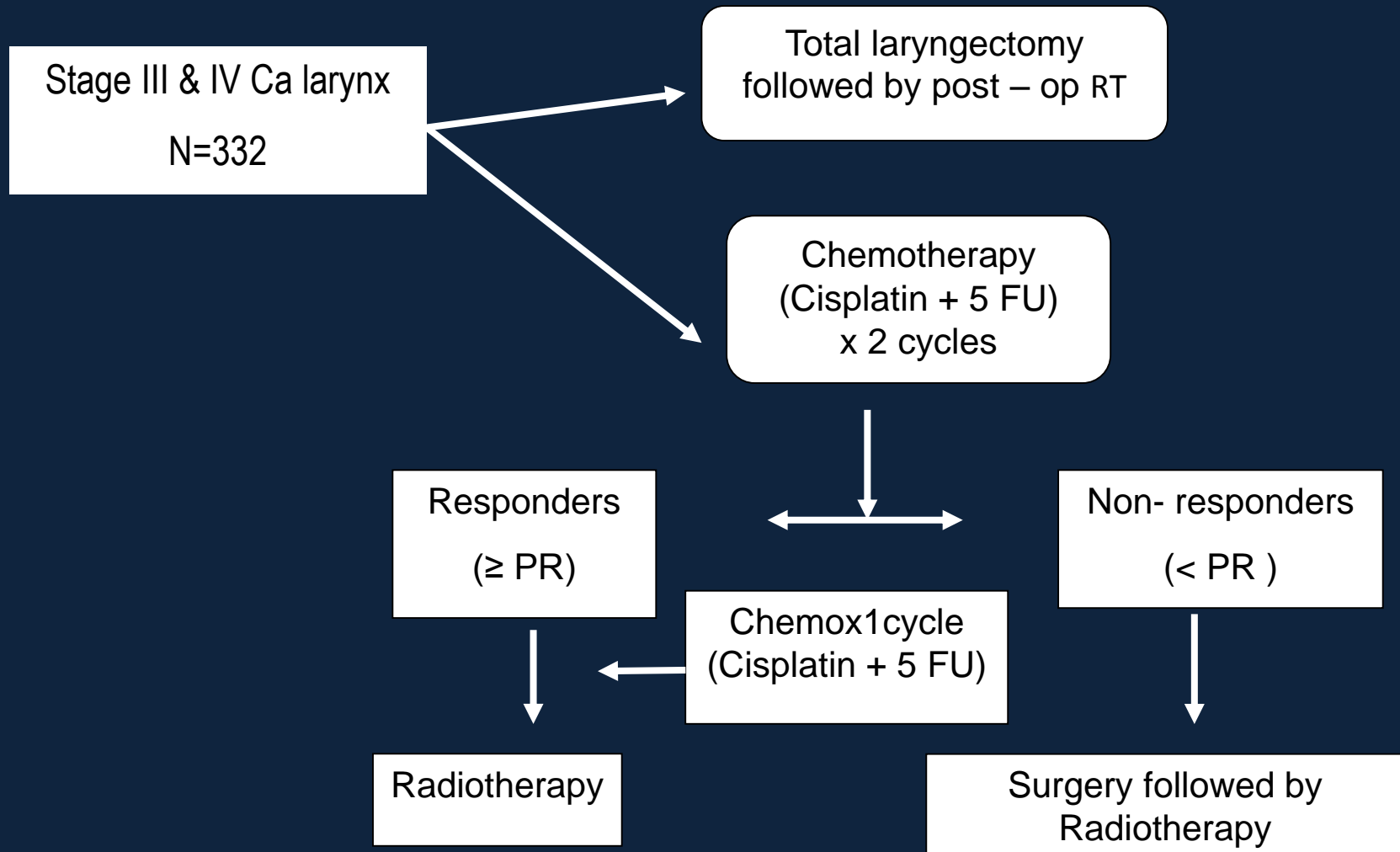
T3 disease



Evolution of Treatment in T3 Ca Larynx

Dr Chebolu Rushikesh Goud

Study design of VA Trial

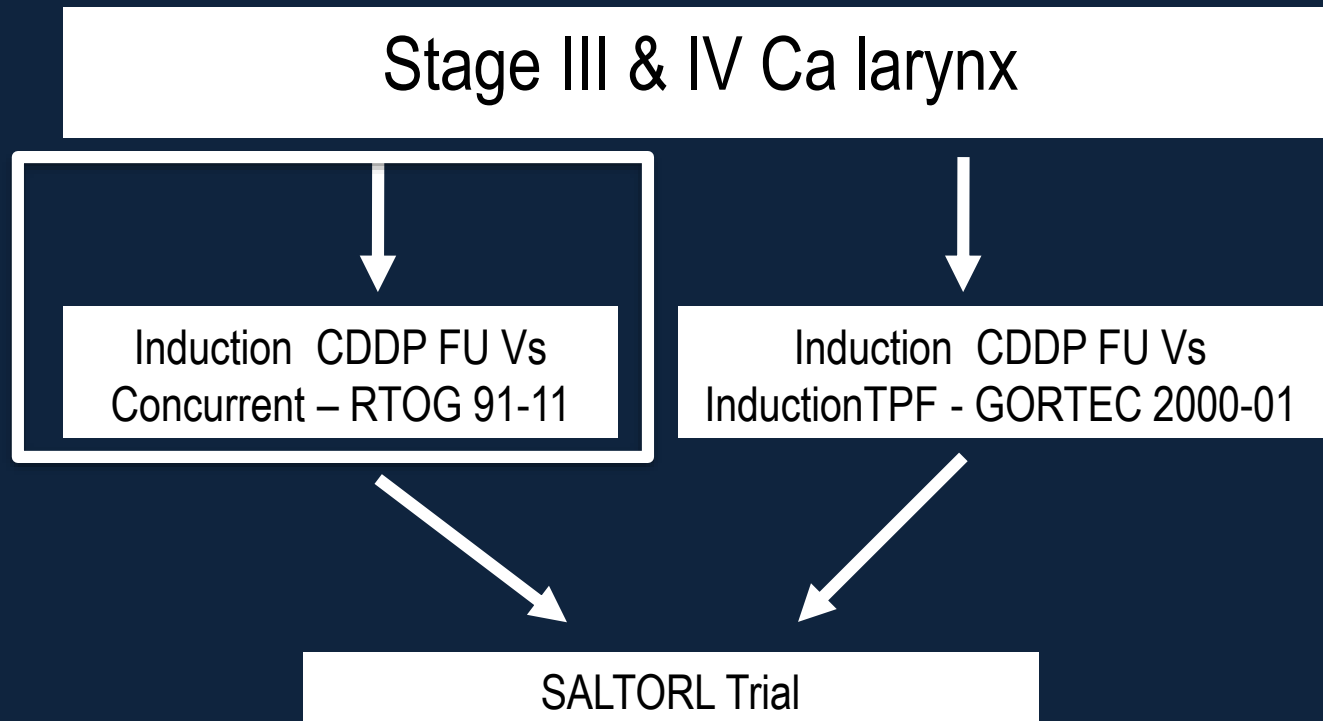


Results -33 months

- 2yr survival was 68% for both groups (p=0.9846)
- Laryngeal preservation was 64%

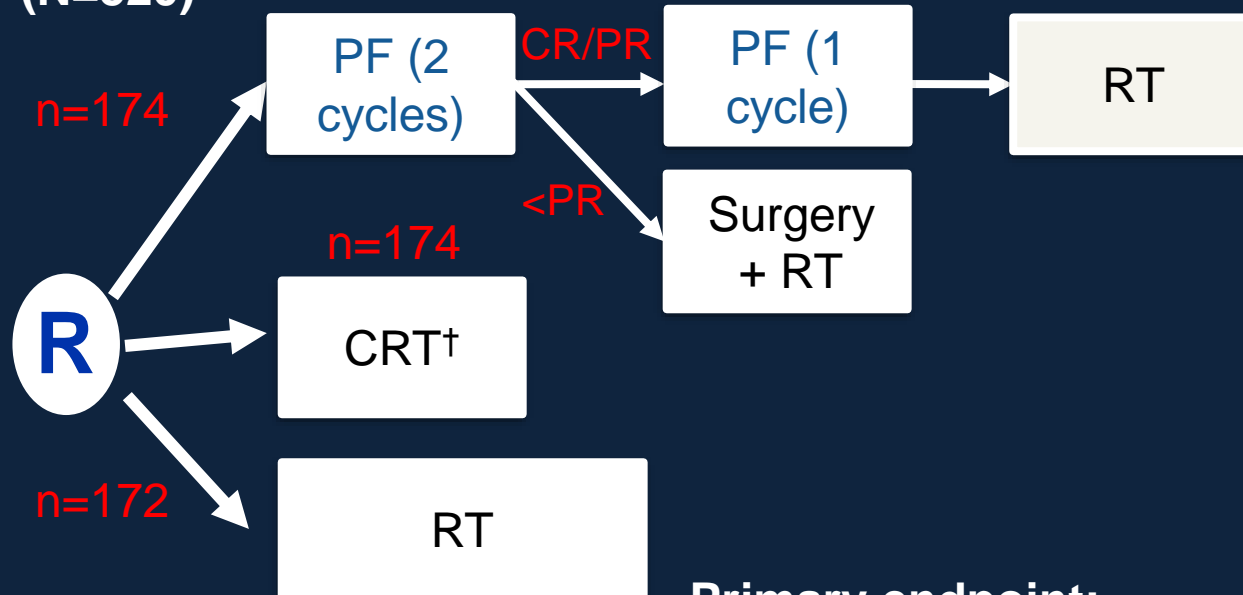
NACT improves Organ preservation. No OS benefit

Further research



RTOG 91-11: Study design

Patients with Stage III or IV glottic or supraglottic SCCHN curable with laryngectomy and RT (N=520)*



Primary endpoint:
Laryngectomy-free survival (LFS)

*T1 primaries and high-volume T4 primaries (invasion >1 cm into the base of tongue or penetration through cartilage) were excluded
†Cisplatin 100 mg/m² q3w + RT;
CR, complete response; PF, cisplatin 100 mg/m² day 1 + 5-FU 1,000 mg/m²/day for 5 days; PR, partial response

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Concurrent Chemotherapy and Radiotherapy for Organ Preservation in Advanced Laryngeal Cancer

Arlene A. Forastiere, M.D., Helmuth Goepfert, M.D., Moshe Maor, M.D., Thomas F. Pajak, Ph.D., Randal Weber, M.D., William Morrison, M.D., Bonnie Glisson, M.D., Andy Trotti, M.D., John A. Ridge, M.D., Ph.D., Clifford Chao, M.D., Glen Peters, M.D., Ding-Jen Lee, M.D., Ph.D., Andrea Leaf, M.D., John Ensley, M.D., and Jay Cooper, M.D.

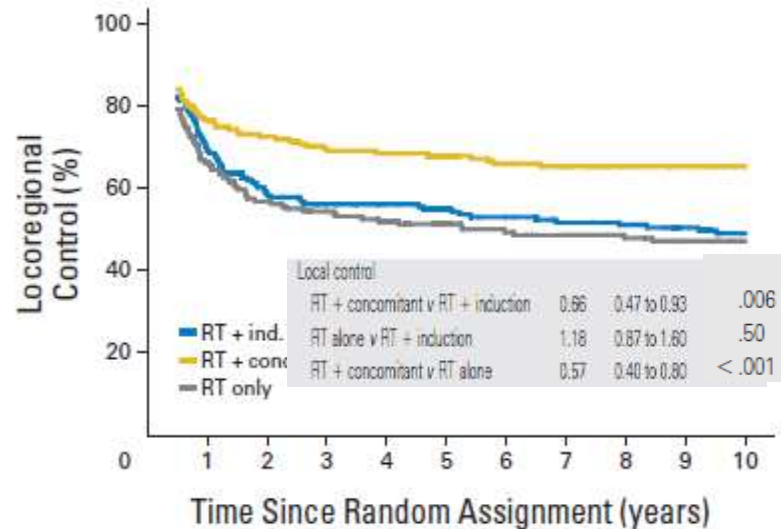
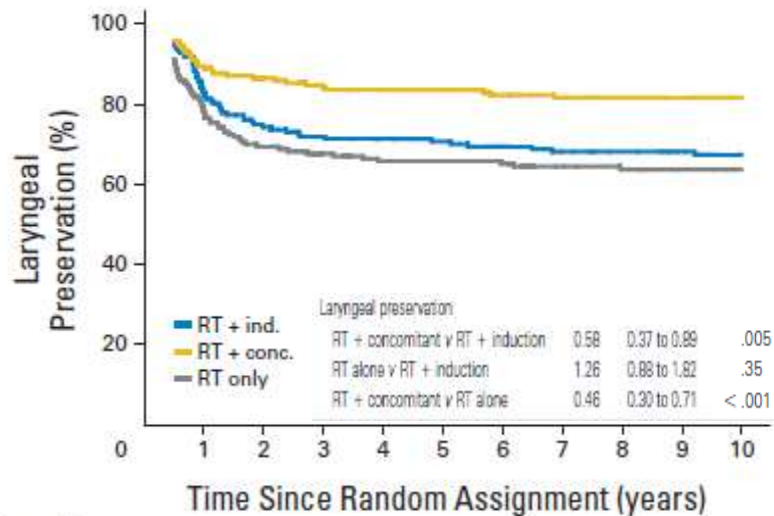
VOLUME 31 • NUMBER 7 • MARCH 1 2013

JOURNAL OF CLINICAL ONCOLOGY

ORIGINAL REPORT

Long-Term Results of RTOG 91-11: A Comparison of Three Nonsurgical Treatment Strategies to Preserve the Larynx in Patients With Locally Advanced Larynx Cancer

Arlene A. Forastiere, Qiang Zhang, Randal S. Weber, Moshe H. Maor, Helmuth Goepfert, Thomas F. Pajak, William Morrison, Bonnie Glisson, Andy Trotti, John A. Ridge, Wade Thorstad, Henry Wagner, John F. Ensley, and Jay S. Cooper

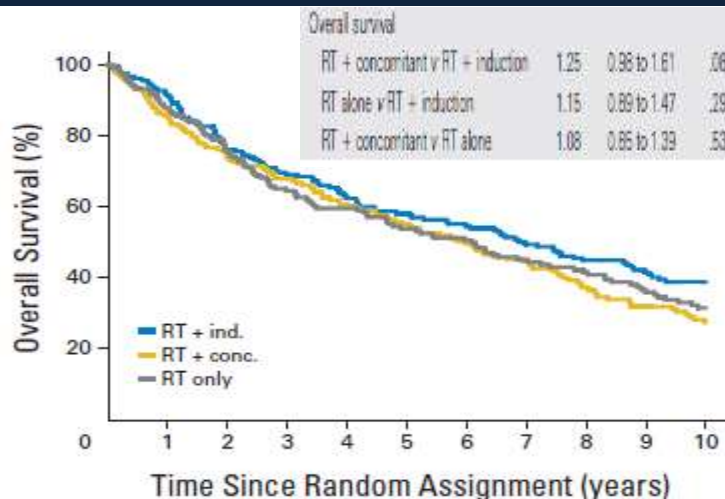


No. at risk

	0	1	2	3	4	5	6	7	8	9	10
RT + ind.	174	130	98	87	78	72	65	56	51	44	37
RT + conc.	174	130	111	96	83	76	67	58	45	38	30
RT only	172	116	88	70	62	52	46	35	32	27	24

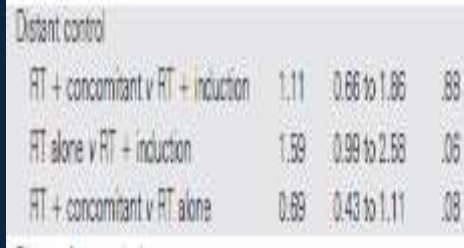
No. at risk

	0	1	2	3	4	5	6	7	8	9	10
RT + ind.	174	117	91	81	73	68	61	53	47	39	31
RT + conc.	174	123	107	93	81	76	67	58	45	38	30
RT only	172	103	80	66	59	51	44	34	31	26	24



No. at risk

	0	1	2	3	4	5	6	7	8	9	10
RT + ind.	174	157	128	116	104	96	88	76	69	61	52
RT + conc.	174	146	126	113	100	90	80	70	56	46	36
RT only	172	148	126	105	96	83	76	65	59	51	43

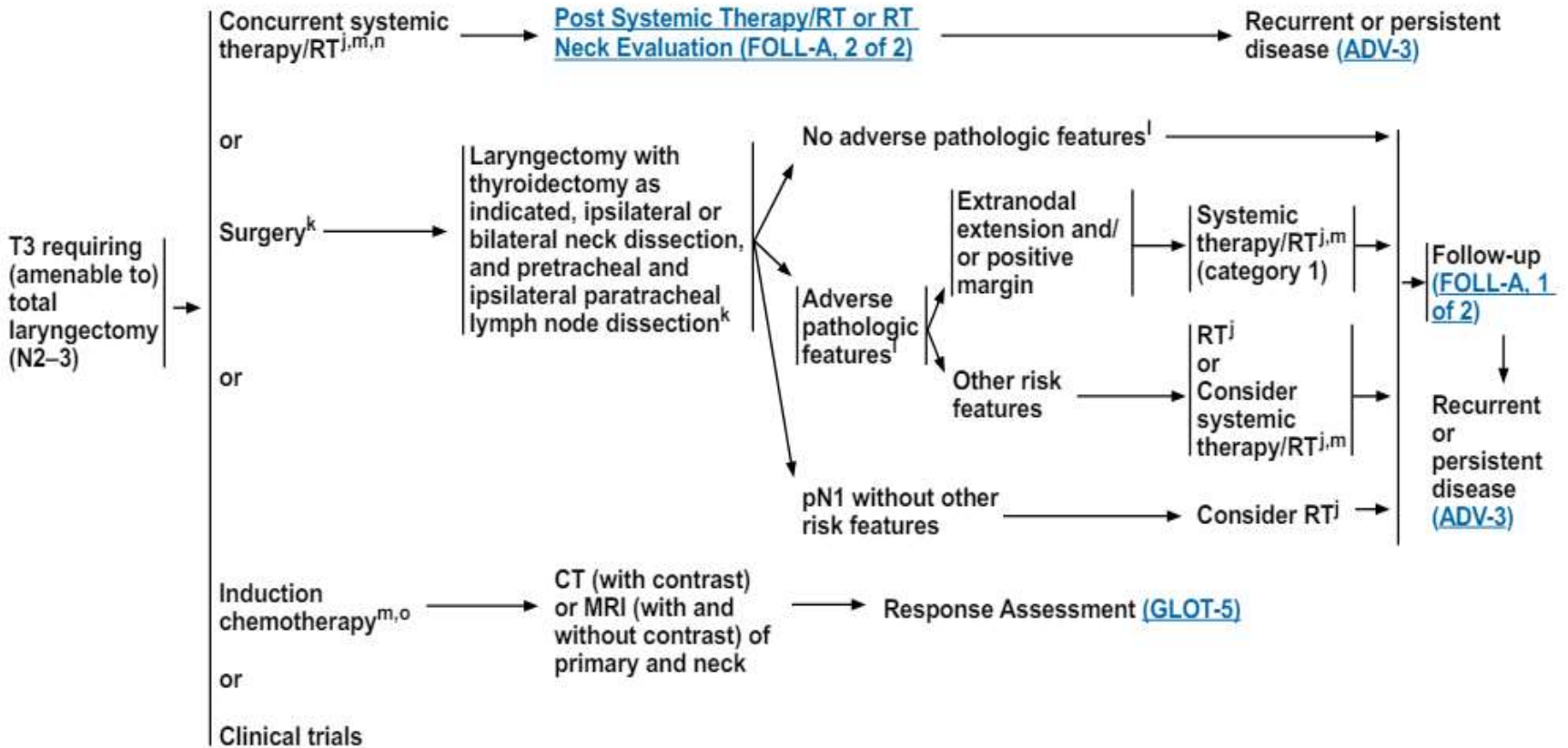




CLINICAL STAGING

TREATMENT OF PRIMARY AND NECK

ADJUVANT TREATMENT



Current Status of Organ Preservation in Carcinoma Larynx

Tapesh Bhattacharyya^a, Cessal Thommachan Kainickal^{b, c}

Criteria for CCRT

Dr Drashti Patel

Concurrent ChemoRT

- Performance status 0,1
- Age not more than 70 yrs.
- Good renal function
- No evidence of through and through cartilage destruction
- No aspiration
- Good social support



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Meta analysis

Meta-analysis of chemotherapy in head and neck cancer (MACH-NC): An update on 93 randomised trials and 17,346 patients

Jean-Pierre Pignon^{a,*}, Aurélie le Maître^a, Emilie Maillard^a, Jean Bourhis^b, on behalf of the MACH-NC Collaborative Group¹

^aDepartment of Biostatistics and Epidemiology, Institut Gustave-Roussy, Villejuif, France

^bDepartment of Radiotherapy, Institut Gustave-Roussy, Villejuif, France

**1994-2000, Primary end point- OS
Median follow up 5.6 yrs**

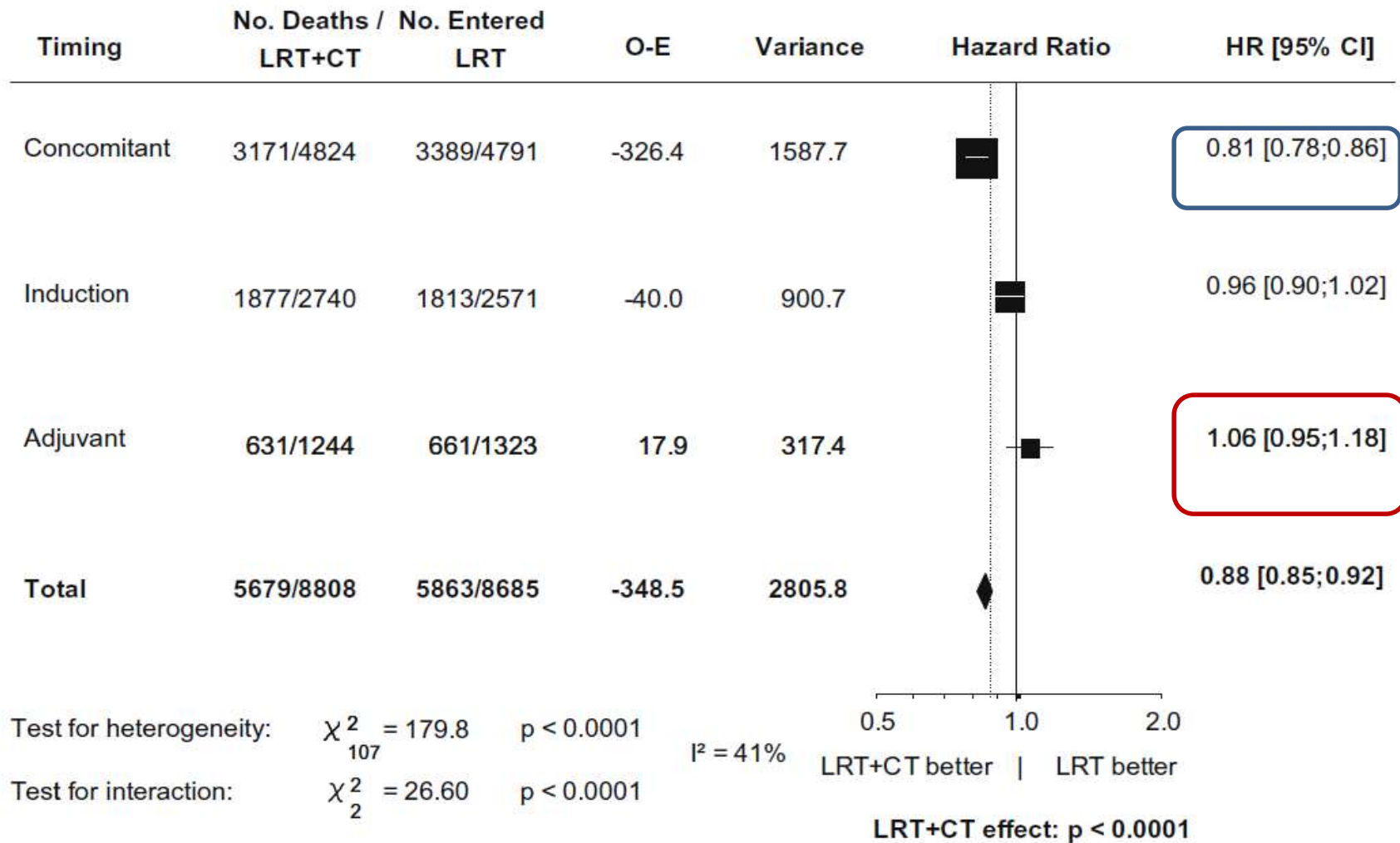
Editorial

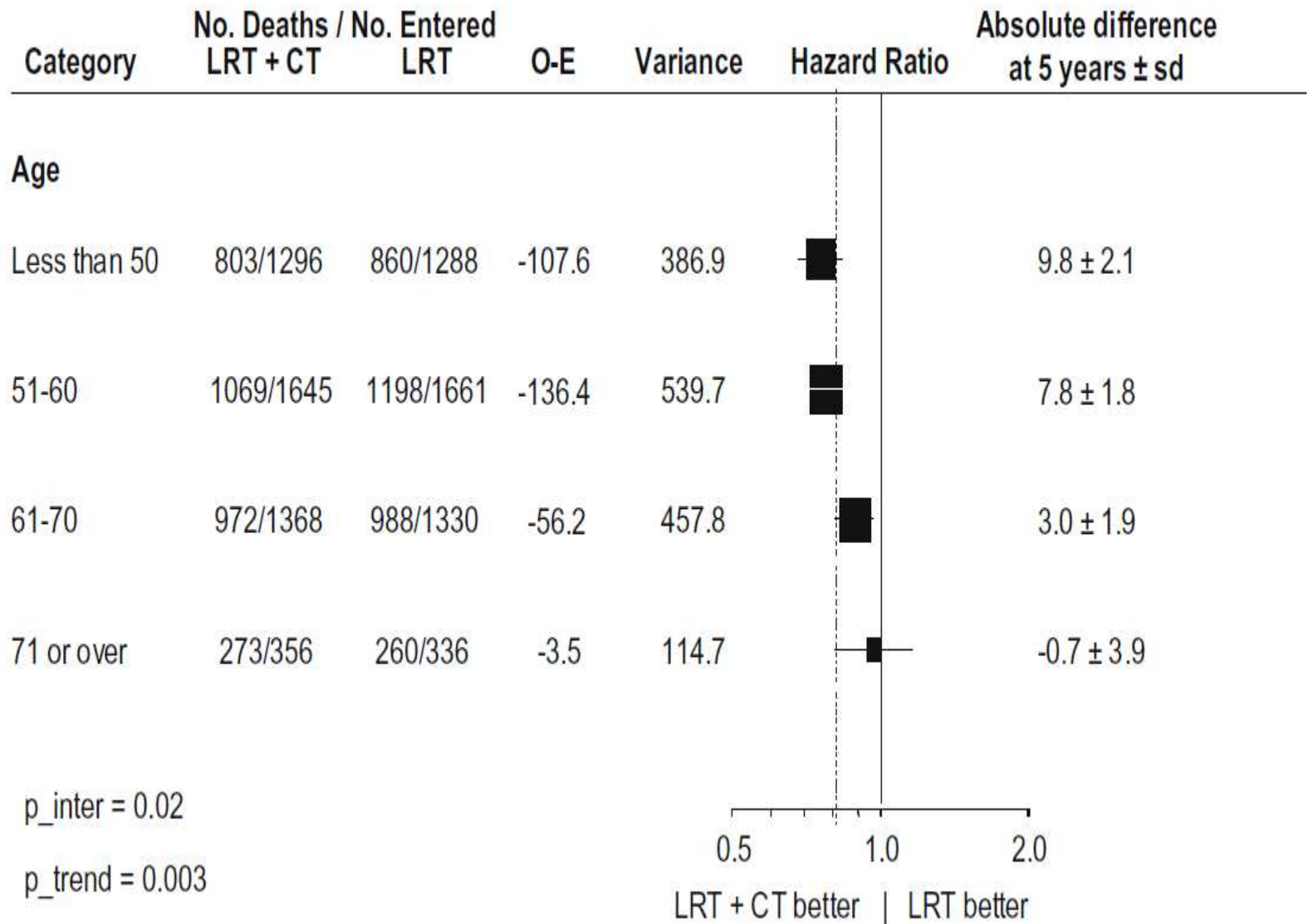
Chemoradiotherapy of head and neck cancer – Can the bumble bee fly?

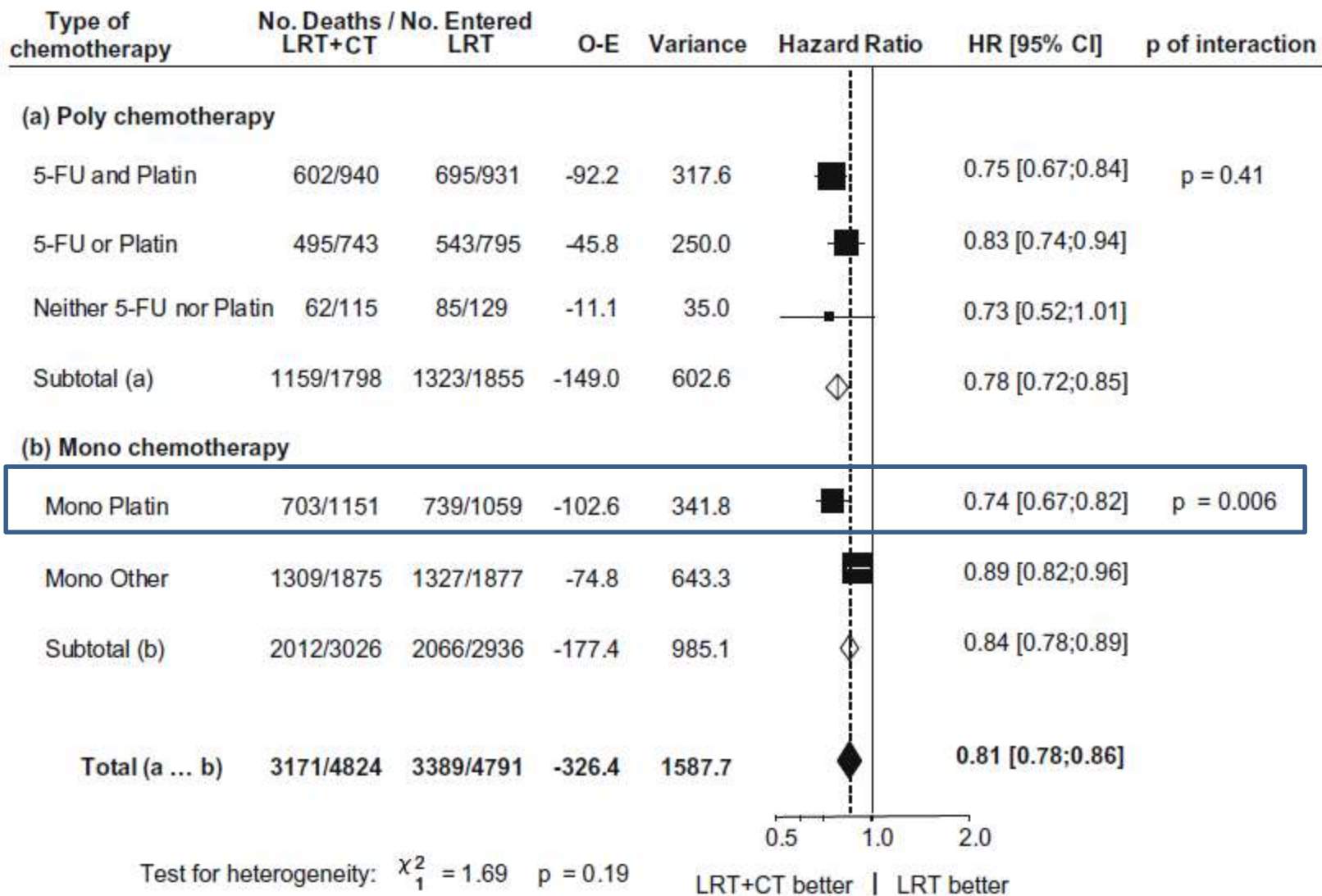
Jens Overgaard*

Department of Experimental Clinical Oncology, Aarhus University Hospital, Aarhus, Denmark

HR For death

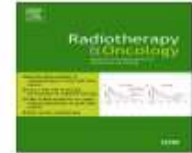






Conclusions –MACH-NC

- CCRT is superior to RT alone -OS&LCR
- Absolute benefit is 6.5 % at 5 yrs
- Induction chemo is not beneficial(Non taxane based)
- Maximum benefit of chemo in young pts
- Single agent is equivalent to combination
- Cisplatin is better than other agents



Original Article

Meta-analysis of chemotherapy in head and neck cancer (MACH-NC): An update on 107 randomized trials and 19,805 patients, on behalf of MACH-NC Group



Benjamin Lacas^{a,b}, Alexandra Carmel^a, Cécile Landais^a, Stuart J. Wong^c, Lisa Licitra^d, Jeffrey S. Tobias^e, Barbara Burtness^f, Maria Grazia Ghi^g, Ezra E.W. Cohen^h, Cai Grauⁱ, Gregory Wolf^j, Ricardo Hitt^k, Renzo Corvò^l, Volker Budach^m, Shaleen Kumarⁿ, Sarbani Ghosh Laskar^o, Jean-Jacques Mazon P^p, Lai-Ping Zhong^q, Werner Dobrowsky^r, Pirus Ghadjar^s, Carlo Fallai^t, Branko Zakotnik^u, Atul Sharma^v, René-Jean Bensadoun^w, Maria Grazia Ruo Redda^x, Séverine Racadot^y, George Fountzilas^z, David Brizel^{aa}, Paolo Rovea^{ab}, Athanassios Argiris^{ac}, Zoltán Takácsi-Nagy^{ad}, Ju-Whei Lee^{ae}, Catherine Fortpied^{af}, Jonathan Harris^{ag}, Jean Bourhis^{b,ah}, Anne Aupérin^{a,b}, Pierre Blanchard^{a,b,ai,+}, Jean-Pierre Pignon^{a,b}, on behalf of the MACH-NC Collaborative Group

- The primary endpoint was overall survival (OS)
 - Event-free survival (EFS)
 - Loco-regional failure (LRF)
 - 120 day mortality
 - Distant failure (DF)
 - Cancer and no cancer mortality
- LRT Vs LRT +Chemotherapy

Concomitant versus Induction chemotherapy

- N=1214;Median follow up – 9 years
- OS - HR = 0.84; absolute benefit of 6.2% at 5 years (p = 0.005)
- EFS- HR = 0.85 ;absolute benefit of 3.7% at 5 years (p = 0.008)
- LRF - HR = 0.86; absolute benefit of 5.8% at 5 years (p = 0.01)

Role for Induction chemotherapy in Ca Larynx?

Dr Aditya Ambesh

Further research

Stage III & IV Ca larynx & Hypopharynx

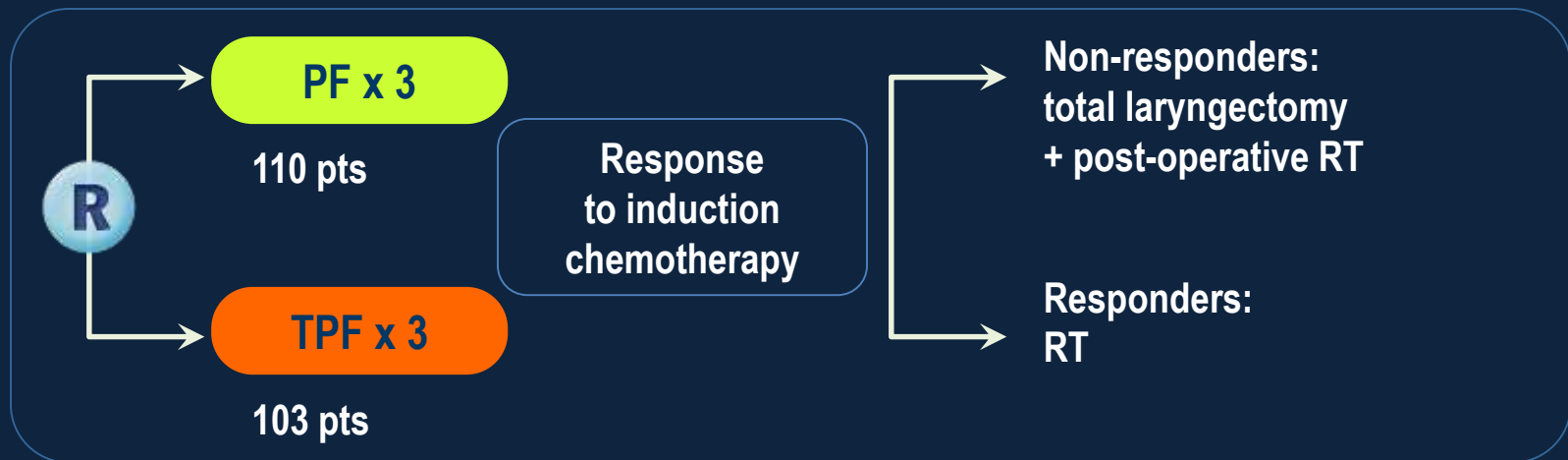
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graph TD; A[Stage III & IV Ca larynx & Hypopharynx] --> B[Induction CDDP FU Vs  
Concurrent – RTOG 91-11]; A --> C[Induction CDDP FU Vs  
Induction TPF - GORTEC 2000-01]; B --> D[SALTORL Trial]; C --> D;
```

Induction CDDP FU Vs
Concurrent – RTOG 91-11

Induction CDDP FU Vs
Induction TPF - GORTEC 2000-01

SALTORL Trial

GORTEC 2000-01 laryngeal preservation trial



Principal objective:
laryngeal preservation

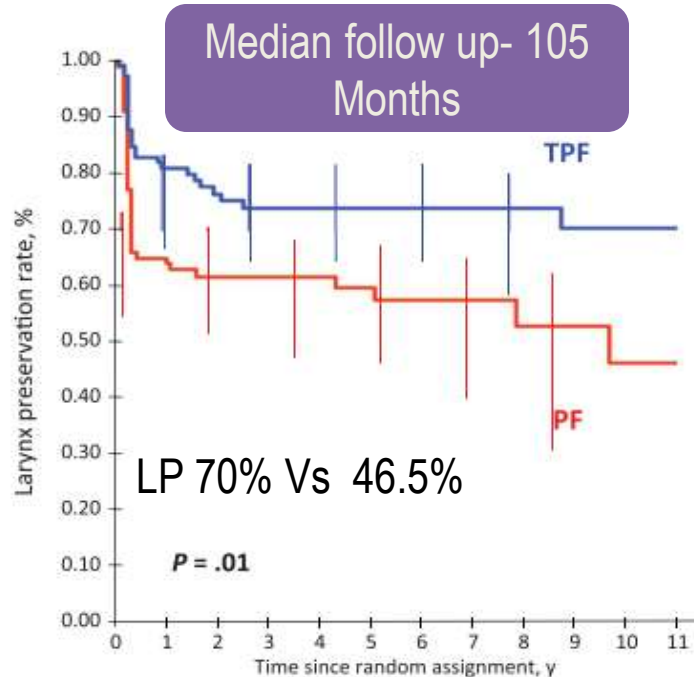
Secondary objectives:
overall survival, progression-free survival, toxicity

ARTICLE

Long-Term Results of a Multicenter Randomized Phase III Trial of Induction Chemotherapy With Cisplatin, 5-fluorouracil, ± Docetaxel for Larynx Preservation

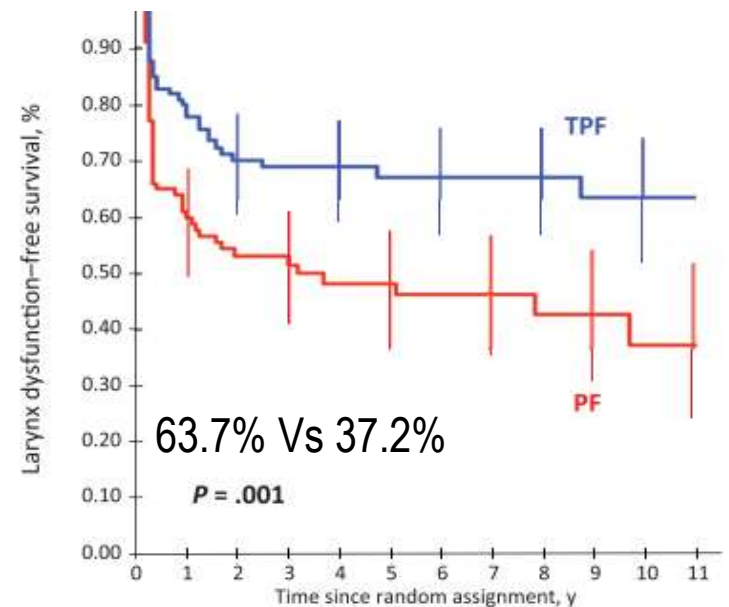
Guillaume Janoray, Yoann Pointreau, Pascal Garaud, Sophie Chapet, Marc Alfonsi, Christian Sire, Eric Jadaud, Gilles Calais

Affiliations of authors: Centre Hospitalier Régional et Universitaire, Henry Kaplan Center, Clinique d'Oncologie et de Radiothérapie, Tours, France (GJ, YP, PG, SC, GC); Université François Rabelais de Tours, France (GJ, GC); Clinique Sainte Catherine, Avignon, France (MA); Centre Hospitalier de Lorient, Lorient, France (CS); Centre Paul Papin, Angers, France (EJ).



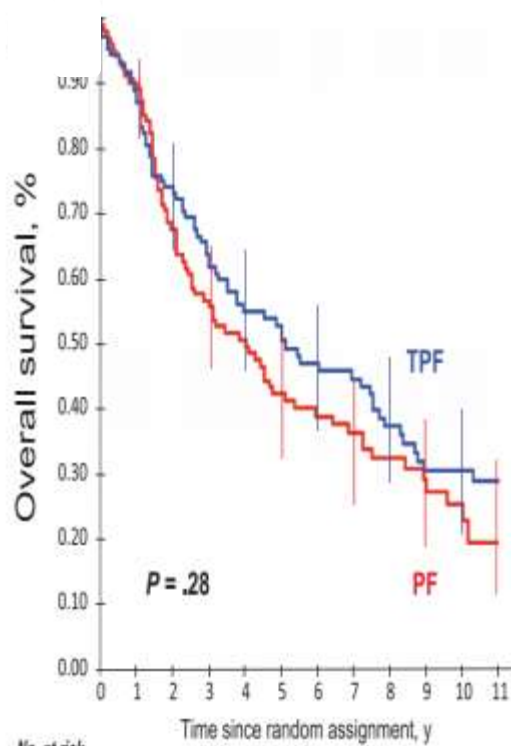
No. at risk	0	1	2	3	4	5	6	7	8	9	10	11
TPF	110	56	36	28	13							
PF	103	39	26	16	5							

JNCI J Natl Cancer Inst (2016) 108(4): djv368

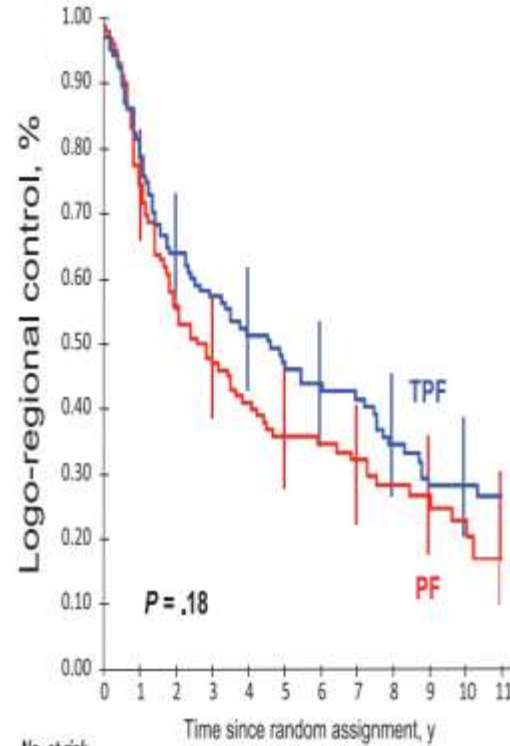


No. at risk	0	1	2	3	4	5	6	7	8	9	10	11
TPF	110	54	35	27	12							
PF	103	33	23	15	5							

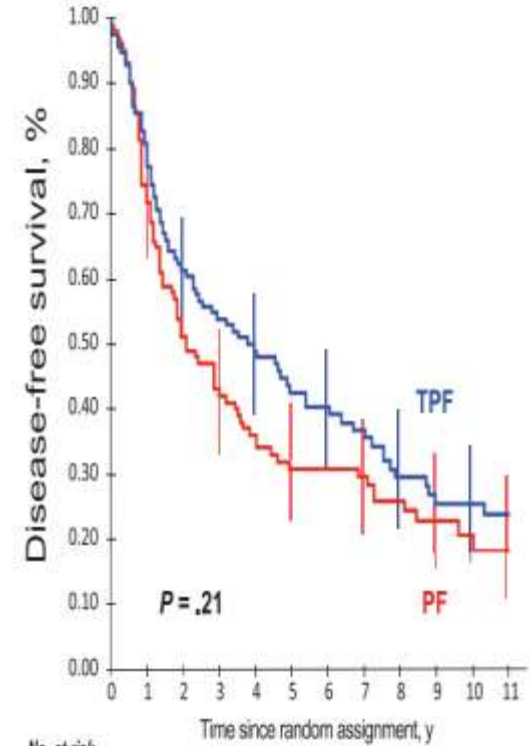
GORTEC 2000-01



No. at risk		Time since random assignment, y				
		0	5	10	15	20
TPF	110	66	45	37	18	
PF	103	56	40	29	8	

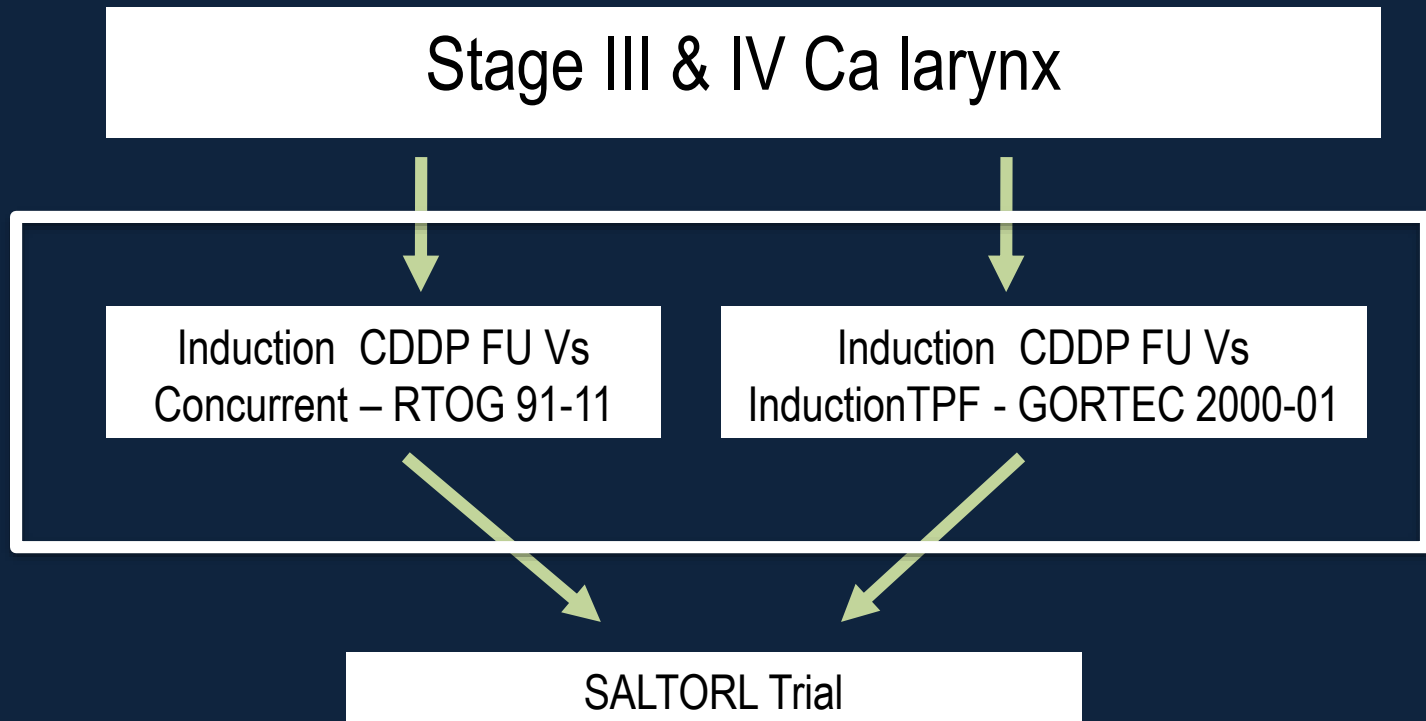


No. at risk		Time since random assignment, y				
		0	5	10	15	20
TPF	110	62	43	36	18	
PF	103	48	34	26	7	



No. at risk		Time since random assignment, y				
		0	5	10	15	20
TPF	110	58	39	30	15	
PF	103	43	30	24	6	

Further research



GORTEC Trial



Induction TPFx3 and re assessment

ChemoRT +/- Salvage Surgery



Less than 50% - Surgery + PORT

More than 50% - RT

<https://clinicaltrials.gov/ct2/show/NCT03340896>



Systematic review

Induction chemotherapy followed by concurrent radio-chemotherapy versus concurrent radio-chemotherapy alone as treatment of locally advanced squamous cell carcinoma of the head and neck (HNSCC): A meta-analysis of randomized trials



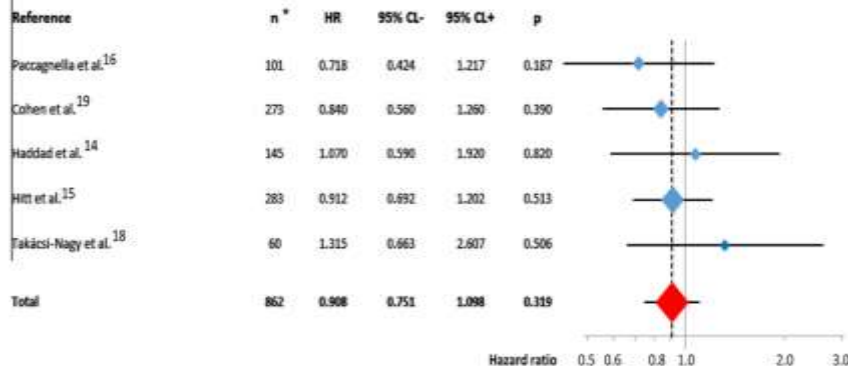
Wilfried Budach ^a, Edwin Bölke ^a, Kai Kammers ^b, Peter Arne Gerber ^d, Klaus Orth ^c, Stephan Gripp ^a, Christiane Matuschek ^{a,*}

^a Medical Faculty, Department of Radiation Oncology, Heinrich Heine University, Dusseldorf, Germany; ^b Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA; ^c Medical Faculty, Department of General, Visceral, and Thoracic Surgery, Asklepios Harz Hospitals, Goslar; and ^d Medical Faculty, Department of Dermatology, Heinrich Heine University, Dusseldorf, Germany

Meta-analysis TPF in HNSCC

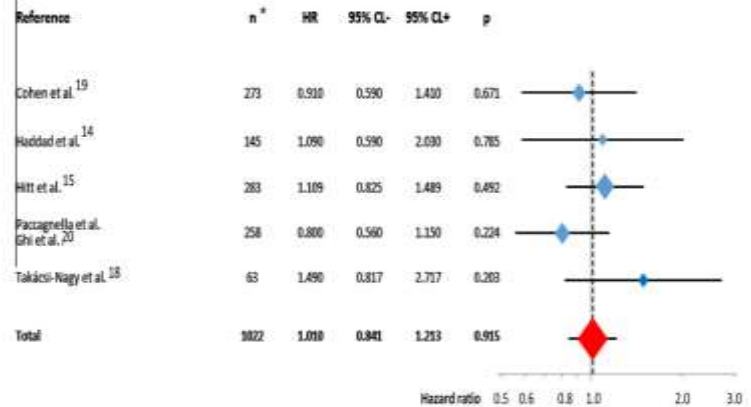
TPF→RT-CHX vs. RT-CHX in locally advanced head and neck cancer

Meta-analysis of randomized controlled trials: PFS



TPF→RT-CHX vs. RT-CHX in locally advanced head and neck cancer

Meta-analysis of randomized controlled trials: Overall Survival



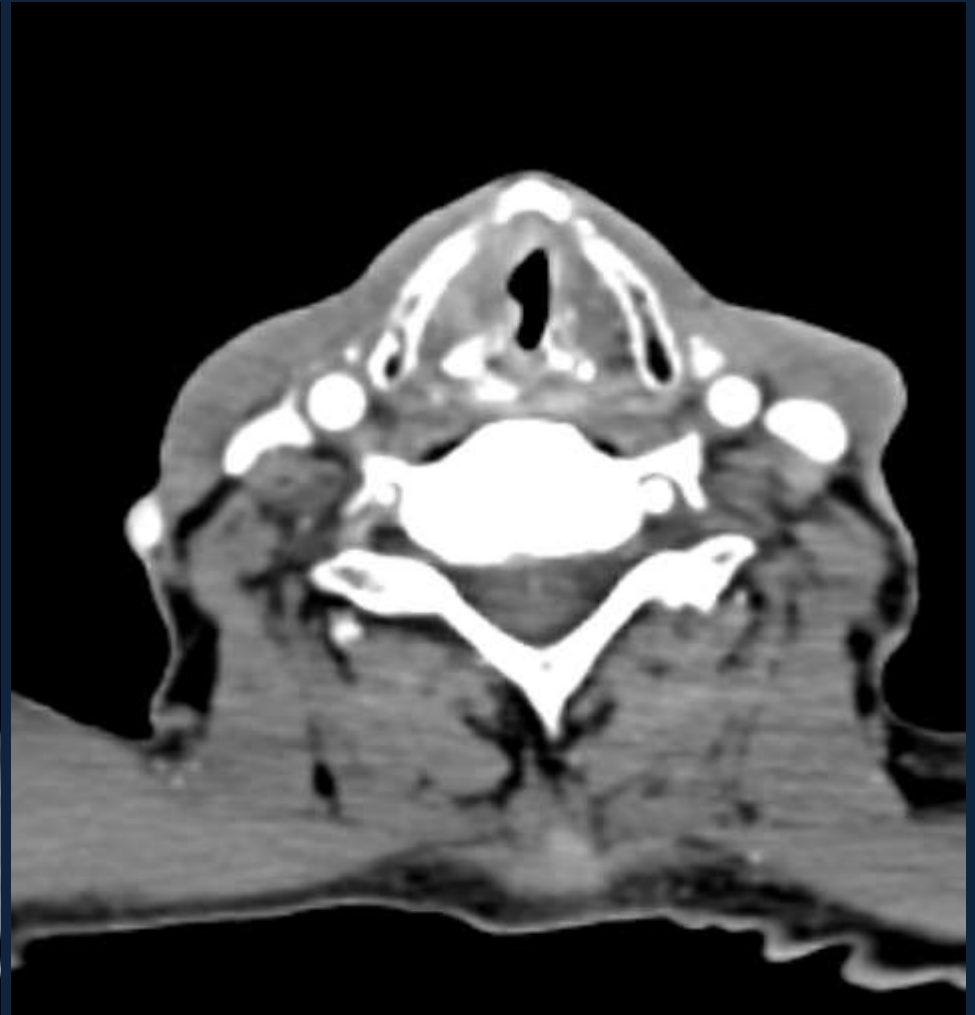
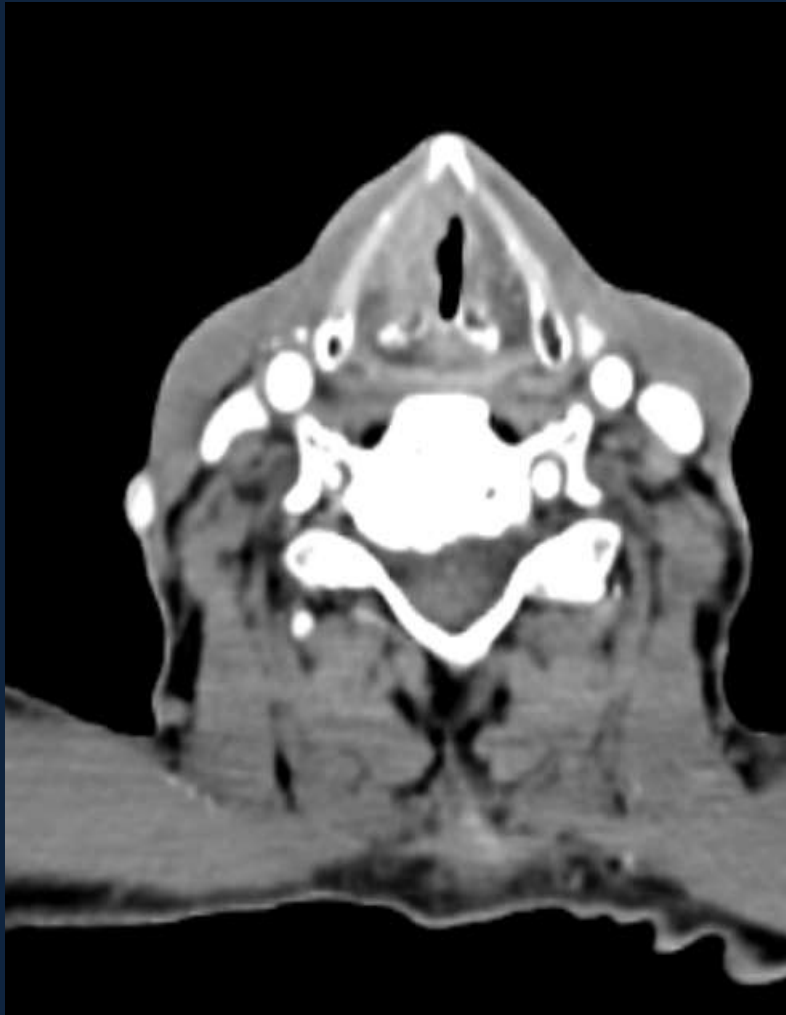
When to consider Induction Chemotherapy?



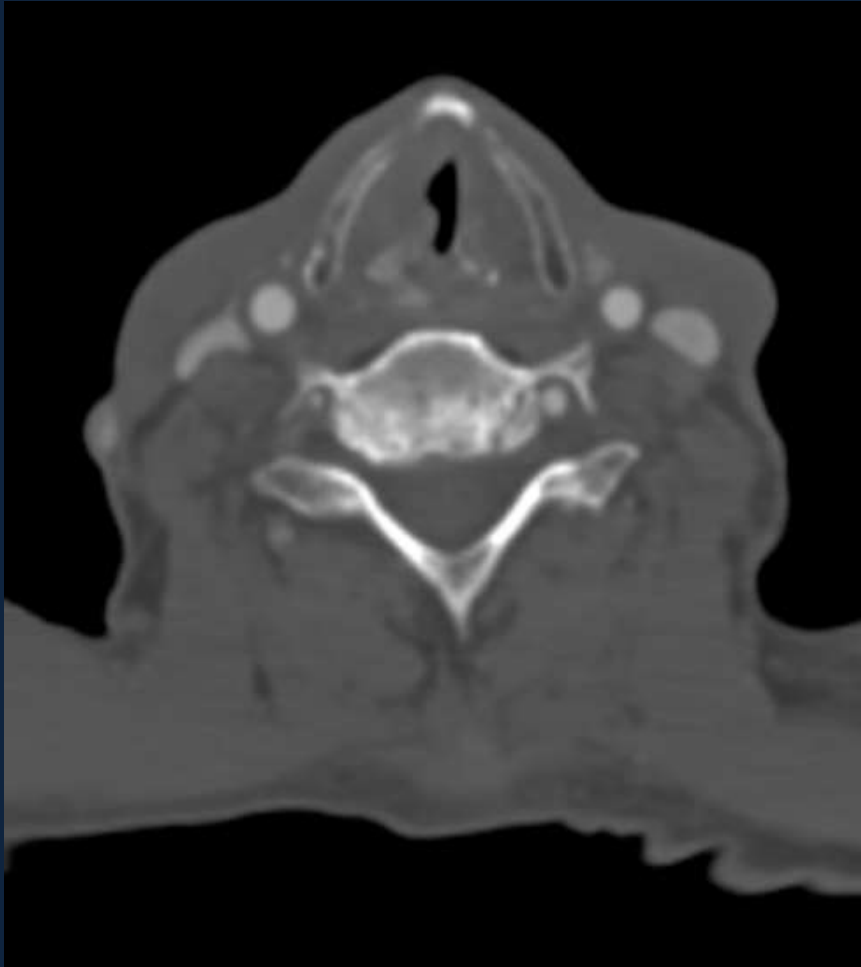
Airway compromise
N3 node
Logistic reasons

ChemoRT in Ca Larynx – Case discussion

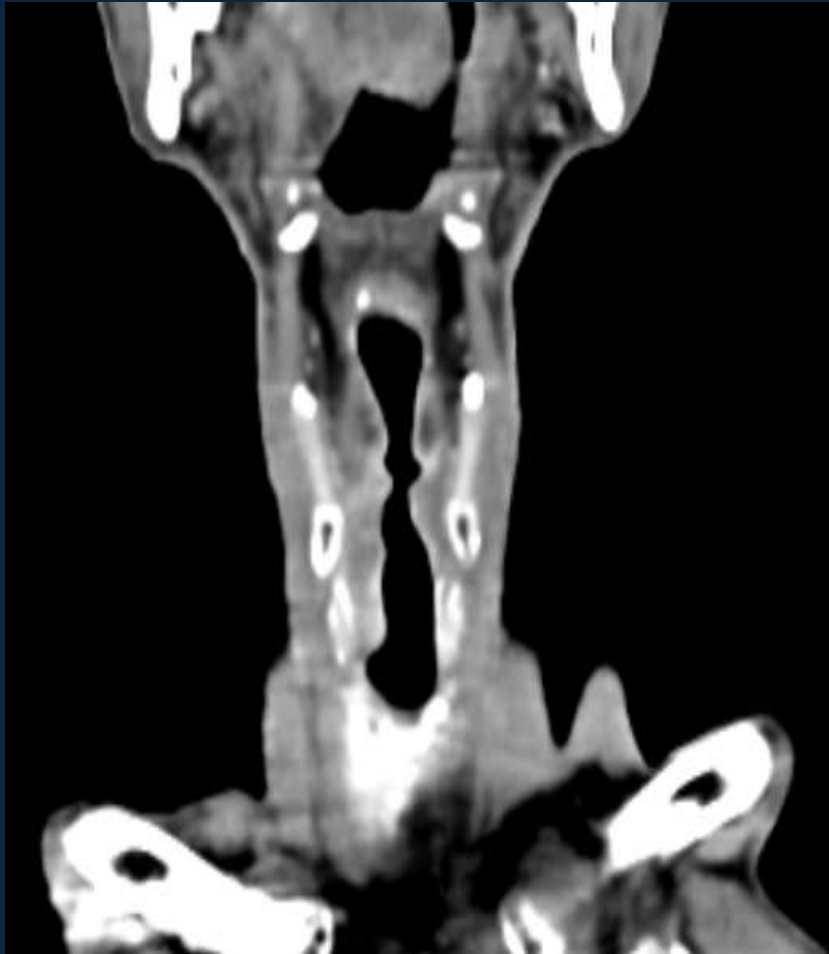
63 yrs. PS-1 T3 Ca Larynx
CCT-63, No comorbidities, good social support



Ca Larynx – T3



Ca Larynx –T3



Dose and volumes-T3N0 Larynx

Dr Aditi Agrawal



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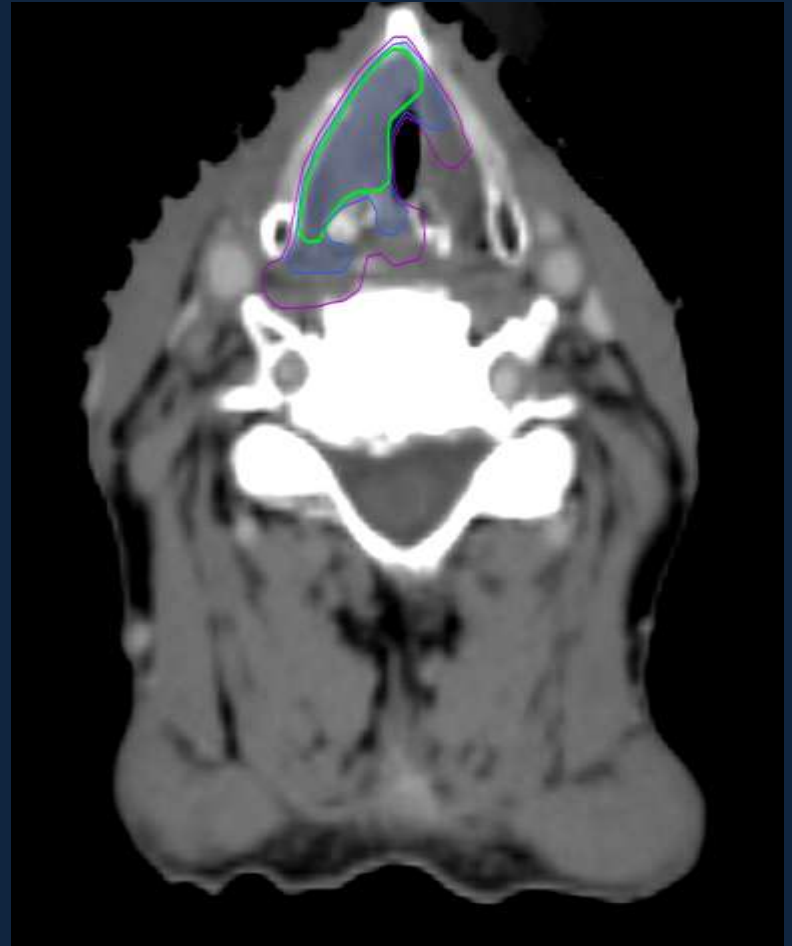
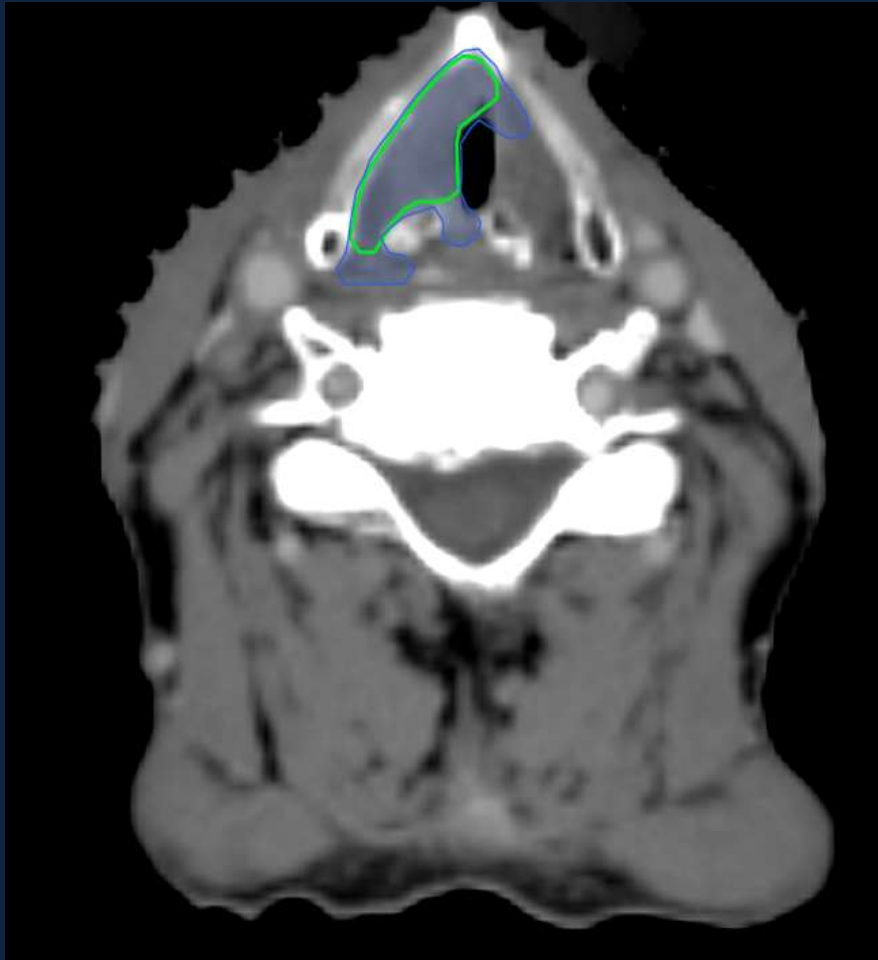
International Guideline

Delineation of the primary tumour Clinical Target Volumes (CTV-P) in laryngeal, hypopharyngeal, oropharyngeal and oral cavity squamous cell carcinoma: AIRO, CACA, DAHANCA, EORTC, GEORCC, GORTEC, HKNPCSG, HNCIG, IAG-KHT, LPRHHT, NCIC CTG, NCRI, NRG Oncology, PHNS, SBRT, SOMERA, SRO, SSHNO, TROG consensus guidelines

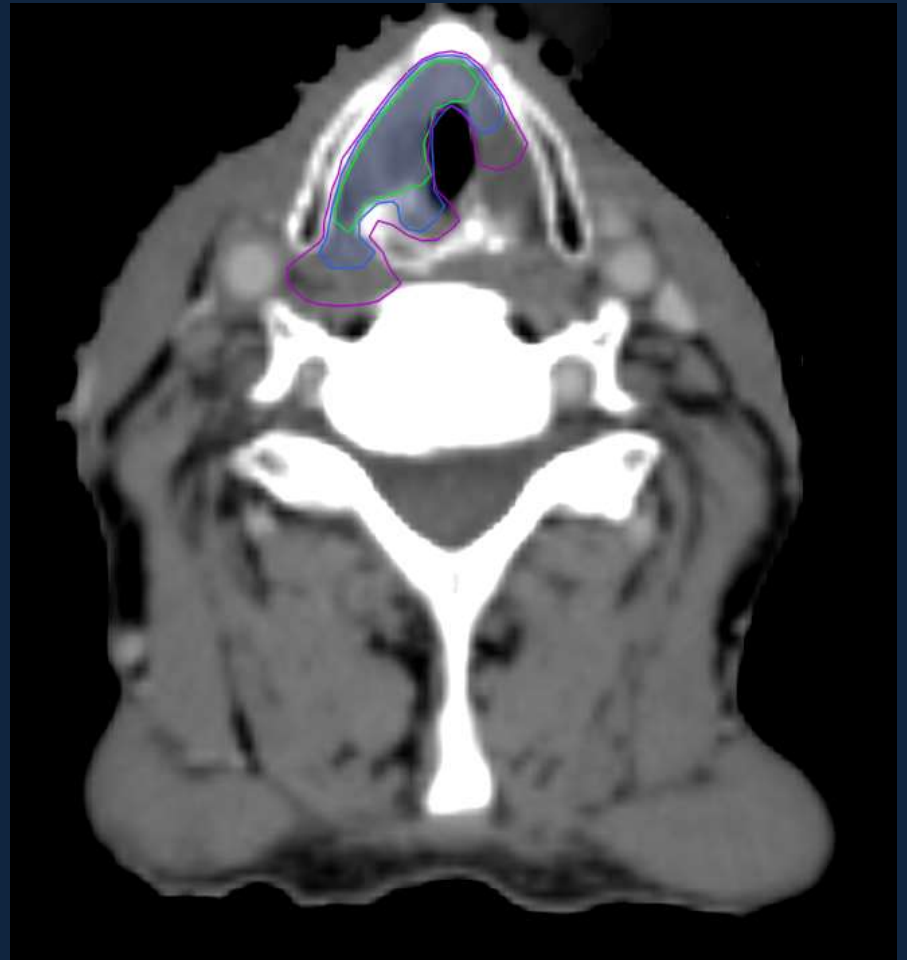
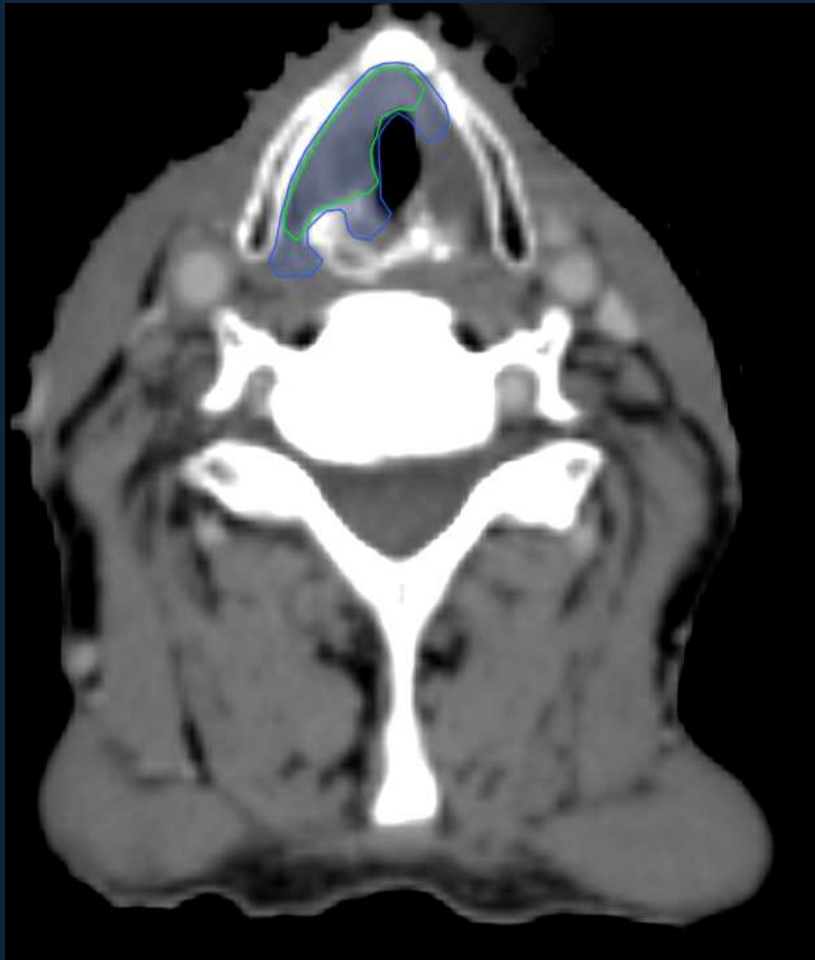


Vincent Grégoire^{a,*}, Mererid Evans^b, Quynh-Thu Le^c, Jean Bourhis^d, Volker Budach^e, Amy Chen^f, Abraham Eisbruch^g, Mei Feng^h, Jordi Giraltⁱ, Tejpal Gupta^j, Marc Hamoir^k, Juliana K. Helito^l, Chaosu Hu^m, Keith Hunterⁿ, Jorgen Johansen^o, Johannes Kaanders^p, Sarbani Ghosh Laskar^j, Anne Lee^q, Philippe Maingon^r, Antti Mäkitie^s, Francesco Micciche^t, Piero Nicolai^u, Brian O'Sullivan^v, Adela Poitevin^w, Sandro Porceddu^x, Krzysztof Skłodowski^y, Silke Tribius^z, John Waldron^v, Joseph Wee^{aa}, Min Yao^{ab}, Sue S. Yom^{ac}, Frank Zimmermann^{ad}, Cai Grau^{ae}

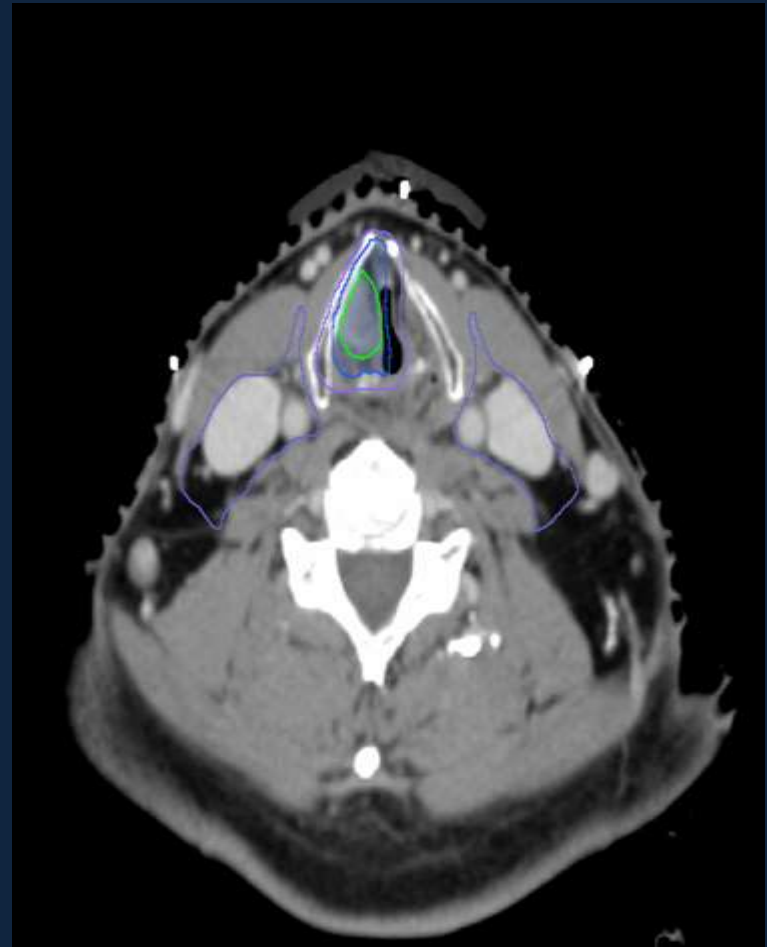
CTVp1&p2



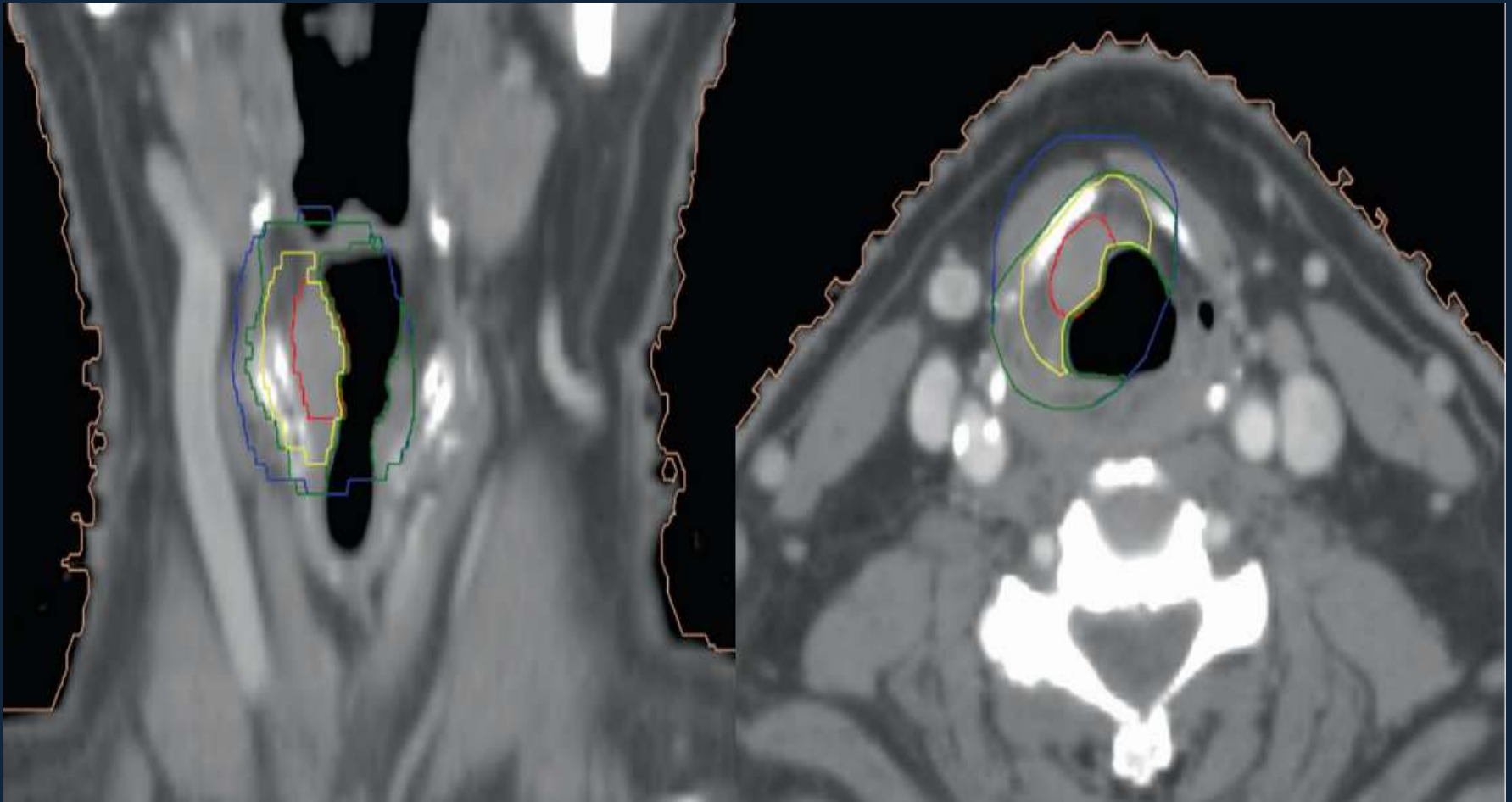
CTVp1&p2



CTVn2



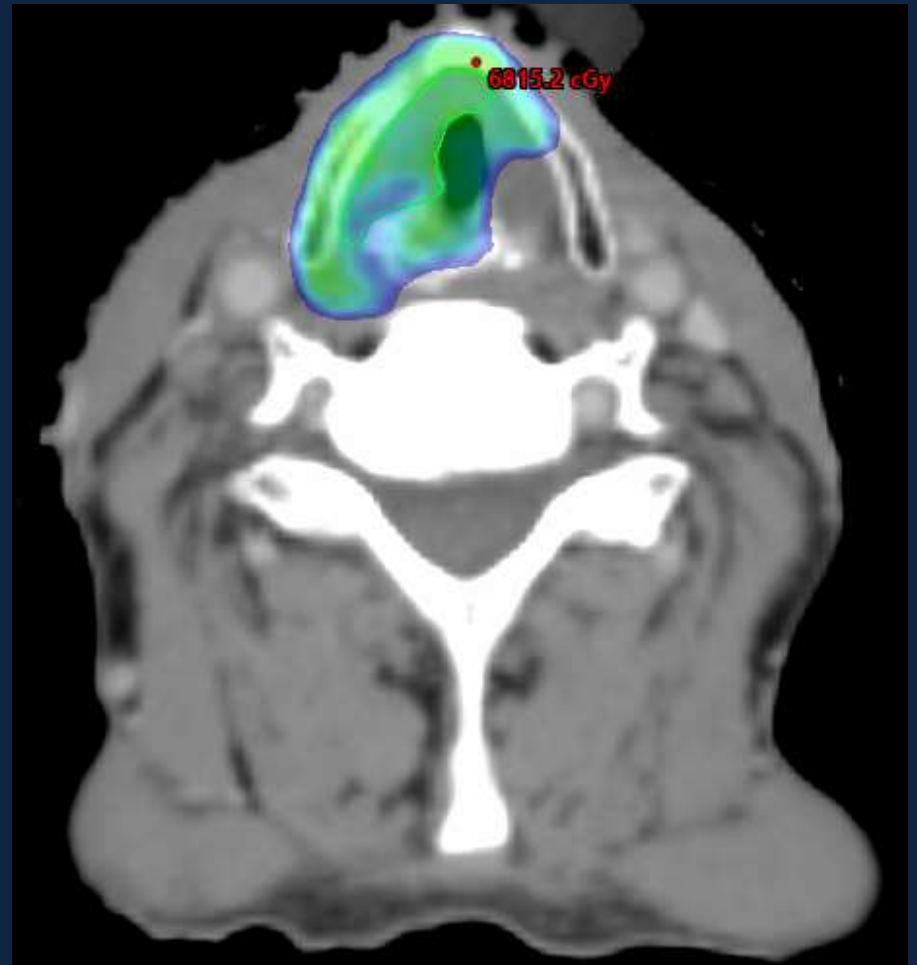
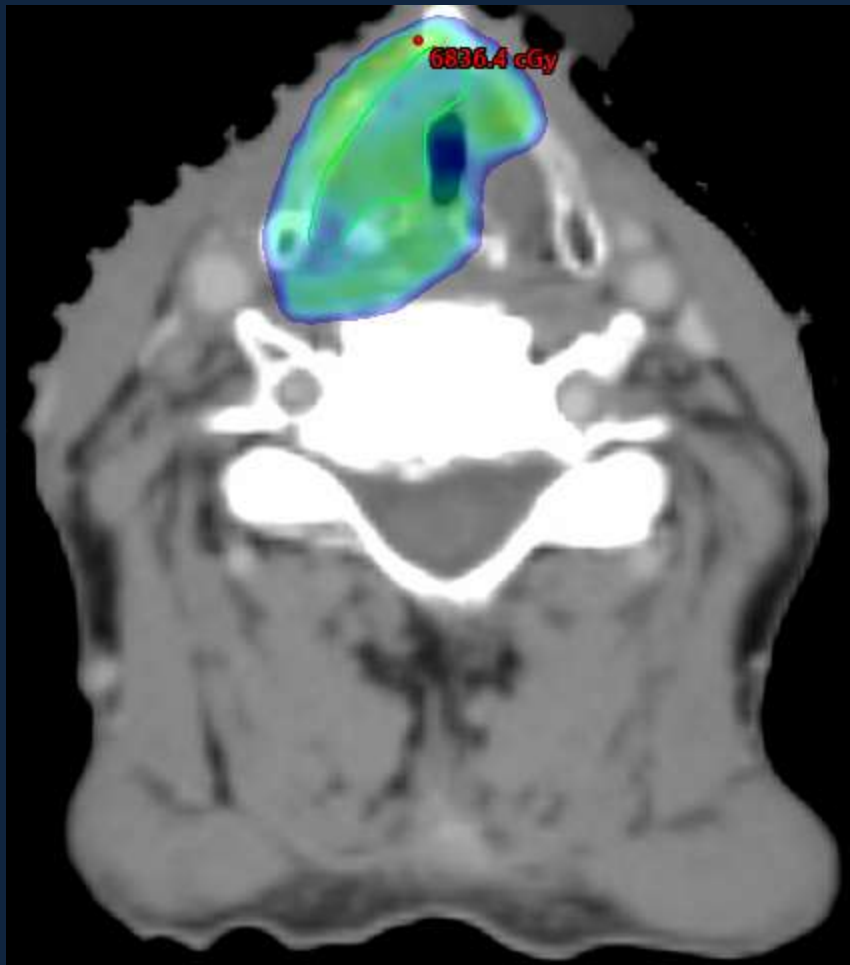
T3 SGL



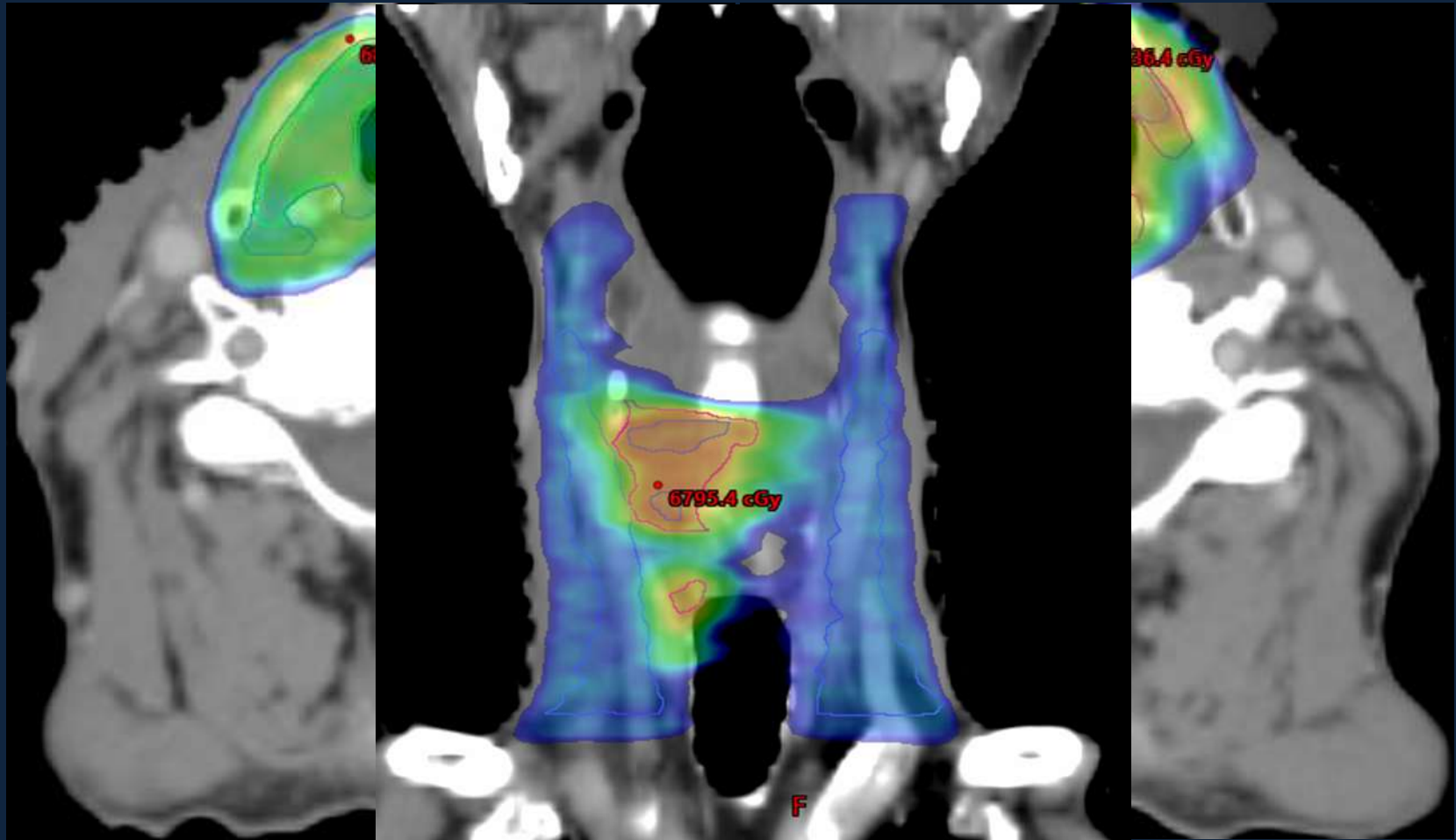
VMAT Acceptance criteria for primary and nodes

Dr Chebolu Rushikesh Goud

GTV Coverage



CTV coverage



Chemotherapy CDDP weekly or 3 weekly?

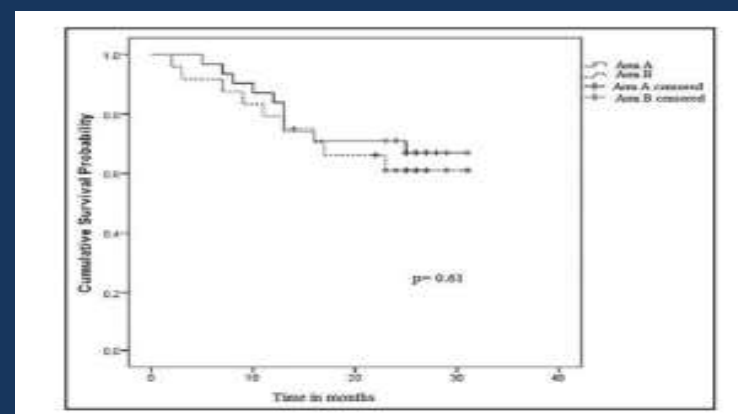
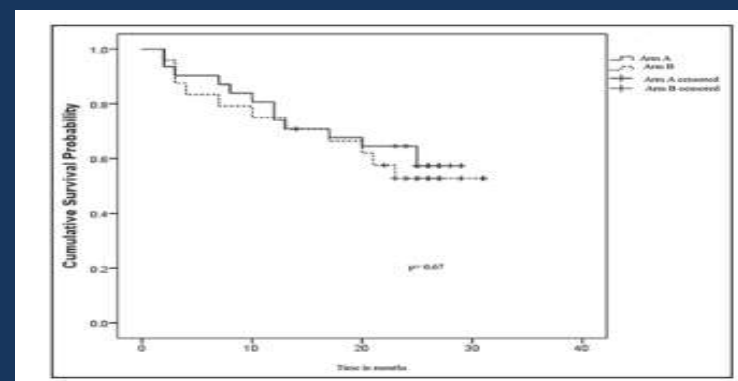
Dr Chintam Datta Sindhu

ORIGINAL ARTICLE Head and Neck Cancer

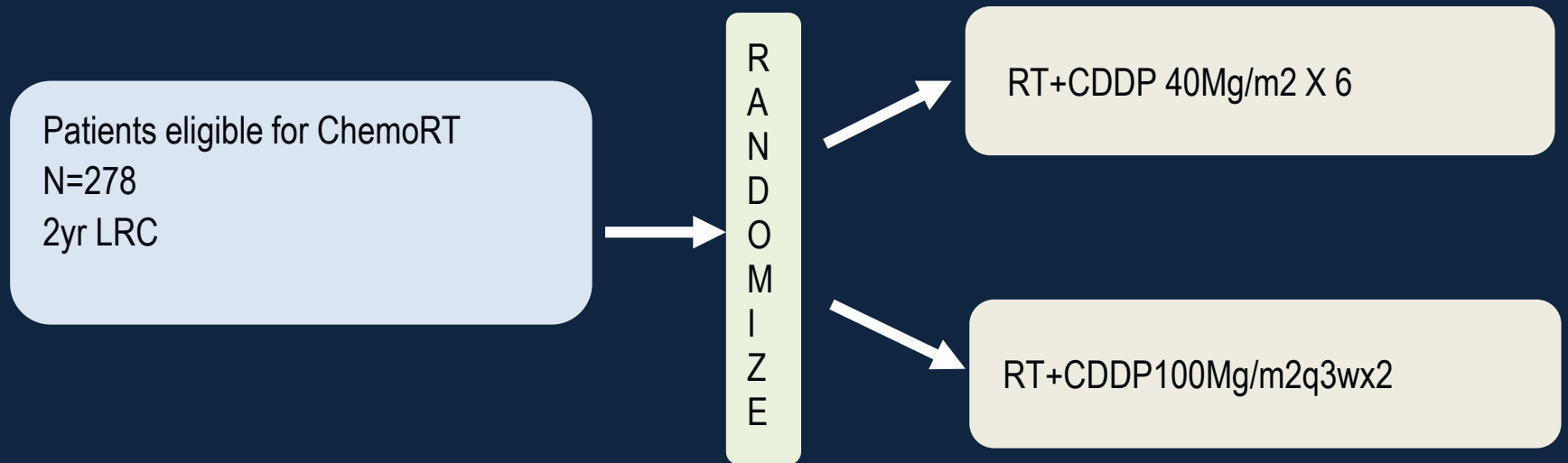
Phase IIb trial comparing two concurrent cisplatin schedules in locally advanced head and neck cancer

Lekha Madhavan Nair, R. Rejnish Kumar, Kainickal Cessal Thomachan, Malu Rafi, Preethi Sara George¹,
K. M. Jagathnath Krishna¹, Kunnambath Ramadas

Toxicity	Arm A (n=31)	Arm B (n=24)	P
Mucositis			
Any grade	30 (96.7)	23 (95.83)	0.900
Grade 3/4	16 (51.6)	13 (54.1)	
Dysphagia			
Any grade	29 (93.5)	23 (95.83)	0.153
Grade 3/4	8 (25.8)	15 (62.5)	
Dermatitis			
Any grade (%)	31 (100)	24 (100)	0.486
Grade 3/4	1 (3.2)	3 (12.5)	
Anemia			
Any grade	7 (22.5)	2 (8.3)	0.300
Grade 3/4	0	1 (4.1)	
Neutropenia			
Any grade	14 (45.16)	11 (45.83)	0.583
Grade 3/4	1 (3.2)	2 (8.3)	
Thrombocytopenia			
Grade 1	1 (3.2)	1 (4.1)	0.999
Grade 2	0	1 (4.1)	
Renal toxicity			
Grade 1	2 (6.45)	4 (16.6)	0.428
Grade 2	1 (3.2)	0	



An open-label, noninferiority phase III RCT of weekly versus three weekly cisplatin and radical radiotherapy in locally advanced head and neck squamous cell carcinoma (ConCERT trial)



2 year LRC rates were 52.6% in T and 47.4% in C (log-rank p=0.426; HR 0.86 [95%CI: 0.60-1.23])

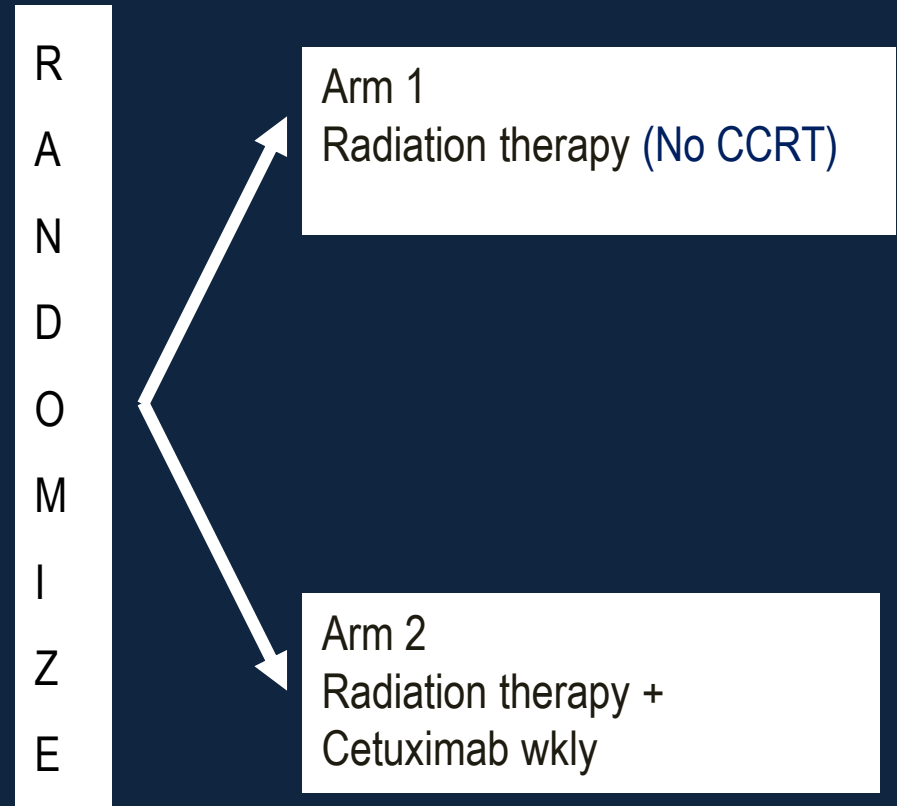
Cisplatin ineligible patients

Dr. Aditya Ambesh

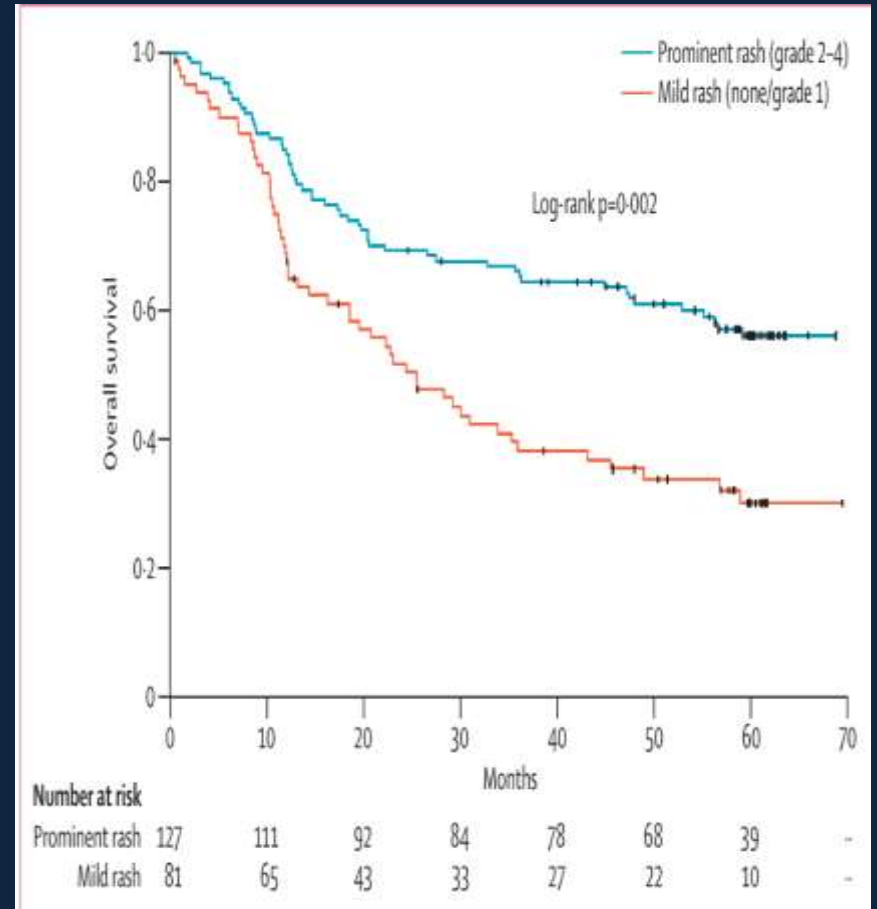
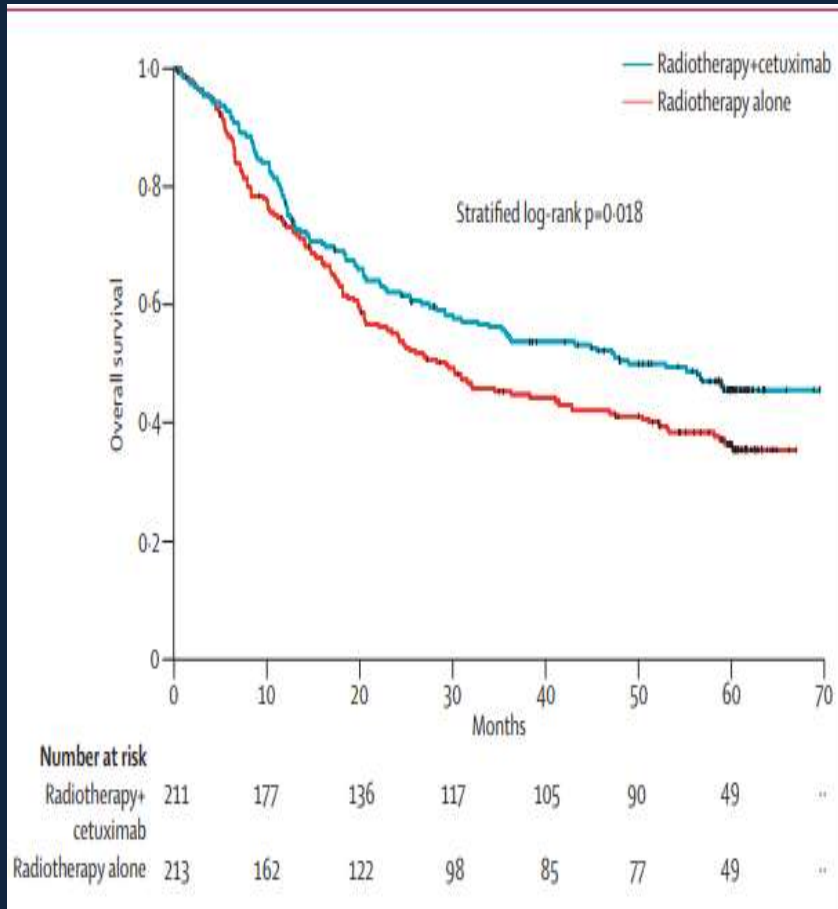
Phase III Study Design

Stratified by

- Karnofsky score: 90-100 vs 60-80
- Regional nodes: negative vs positive
- Tumor stage: AJCC T1-3 vs T4
- RT fractionation: concomitant boost vs once daily vs twice daily



5yr update



Research

*Corresponding author

Cessal Thommachan Kainickal, MD

Associate Professor

Division of Radiation Oncology

Regional Cancer Centre

Trivandrum, Kerala, India

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E-mail: drcessalthomas@gmail.com

Volume 3 : Issue 1

Article Ref. #: 1000CSMMOJ3114

Current Status of Anti Epidermal Growth Factor Receptor Therapy in the Curative Treatment of Head and Neck Squamous Cell Carcinoma

Cessal Thommachan Kainickal, MD¹; Aparna M. P., MD; Rejnish Kumar Ravi Kumar, MD; Malu Rafi, DNB; Kunnambath Ramadas, MD, PhD

Department of Radiation Oncology, Regional Cancer Centre, Trivandrum, Kerala, India



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> *Med Int (Lond)*. 2024 May 29;4(4):41. doi: 10.3892/mi.2024.165. eCollection 2024 Jul-Aug.

Anti-epidermal growth factor receptor monoclonal antibody therapy in locally advanced head and neck cancer: A systematic review of phase III clinical trials

Lekha Madhavan Nair ¹, Rejnish Ravikumar ¹, Malu Rafi ¹, Jissy Vijo Poulouse ², Nijo Jose ¹, Krishnapriya Pisharody ¹, [Kainickal Cessal Thommachan](#) ¹

Affiliations + expand

PMID: 38873325 PMCID: PMC11170331 DOI: 10.3892/mi.2024.165

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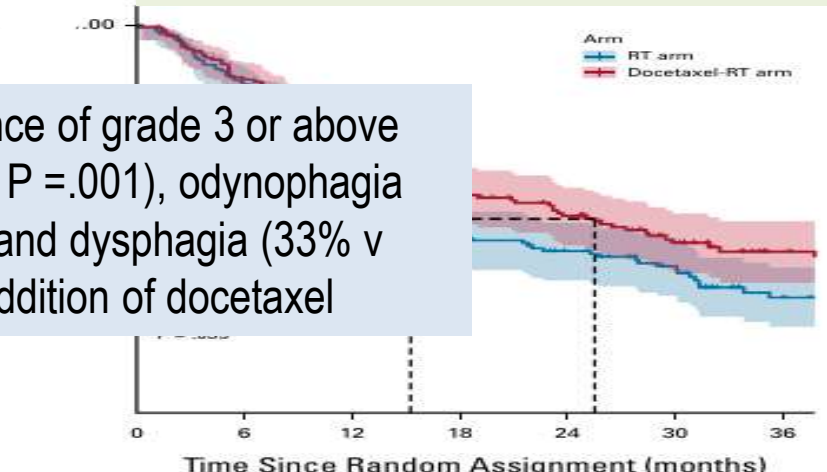
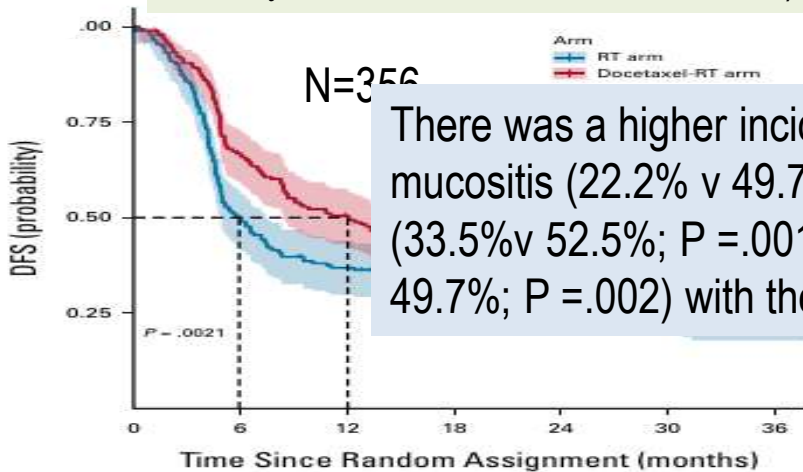
original reports

Results of Phase III Randomized Trial for Use of Docetaxel as a Radiosensitizer in Patients With Head and Neck Cancer, Unsuitable for Cisplatin-Based Chemoradiation

Vijay Maruti Patil, MBBS, MD, DM¹; Vanita Noronha, MBBS, MD, DM¹; Nandini Menon, MBBS, MD, DNB¹; Ajay Singh, MBBS, MD, DM¹; Sarbani Ghosh-Laskar, MBBS, MD²; Ashwini Budrukkar, MBBS, MD²; Atanu Bhattacharjee, PhD³; Monali Swain, MBBS, MD²; Vijayalakshmi Mathrudev, BHMS, MBA¹; Kavita Nawale, PGDCR¹; Arun Balaji, MASLP⁴; Zoya Peelay, MSc¹; Mitali Alone, MSc¹; Shruti Pathak, MSc¹; Abhishek Mahajan, MBBS, MD⁵; Suman Kumar, MBBS, DNB⁵; Nilendu Purandare, MBBS, DNB⁶; Archi Agarwal, MBBS, DNB⁶; Ameya Puranik, MBBS, DNB⁶; Shantanu Pendse, MBBS, MD, DM¹; Monica Reddy Yallala, MBBS, MD¹; Harsh Sahu, MBBS, MD¹; Venkatesh Kapu, MBBS, MD¹; Sayak Dey, MBBS, MD¹; Jatin Choudhary, MBBS, MD¹; Madala Ravi Krishna, MBBS, MD¹; Alok Shetty, MBBS, MD¹; Naveen Karuvandan, MBBS, MD¹; Rahul Ravind, MBBS, MD, DM¹; Rahul Rai, MBBS, MD¹; Kunal Jobanputra, MBBS, MD¹; Pankaj Chaturvedi, MBBS, MS⁷; Prathamesh S. Pai, MBBS, MS⁷; Devendra Chaukar, MBBS, MS⁷; Sudhir Nair, MBBS, MS⁷; Shivakumar Thiagarajan, MBBS, MS⁷; and Kumar Prabhash, MBBS, MD, DM¹

The 2-year DFS 30.3% Vs 42% P=0.002

15.3 months Vs 25.5 months P= .0.035



Arm	0	6	12	18	24	30	36
RT arm	176 (0)	88 (0)	64 (11)	46 (11)	41 (14)	32 (20)	20 (28)
Docetaxel-RT arm	180 (0)	119 (2)	88 (4)	71 (12)	63 (15)	42 (31)	28 (43)

Arm	0	6	12	18	24	30	36
RT arm	176 (0)	149 (0)	105 (3)	69 (14)	57 (20)	43 (29)	23 (41)
Docetaxel-RT arm	180 (0)	153 (2)	124 (3)	90 (14)	76 (19)	49 (37)	30 (54)

Role of Immunotherapy In LAHNSCC

Dr Chintam Datta Sindhu



*World Journal of
Clinical Oncology*

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World J Clin Oncol 2022 May 24; 13(5): 388-411

DOI: [10.5306/wjco.v13.i5.388](https://doi.org/10.5306/wjco.v13.i5.388)

ISSN 2218-4333 (online)

SYSTEMATIC REVIEWS

Immune checkpoint inhibitors in head and neck squamous cell carcinoma: A systematic review of phase-3 clinical trials

Jissy Vijo Poulose, Cessal Thommachan Kainickal

Specialty type: Oncology

Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

Jissy Vijo Poulose, National Fellowship in Palliative Medicine (Training Program), Institute of Palliative Medicine, Calicut 673008, Kerala, India

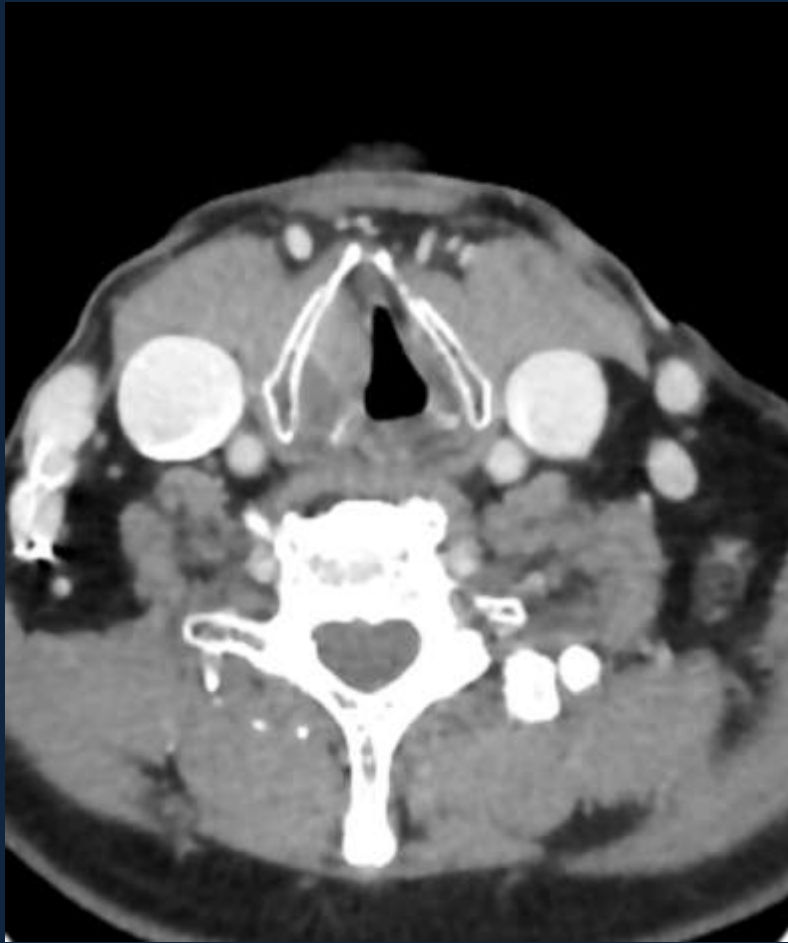
Cessal Thommachan Kainickal, Department of Radiation Oncology, Regional Cancer Centre, Thiruvananthapuram 695011, Kerala, India

Corresponding author: Cessal Thommachan Kainickal, MBBS, MD, Additional Professor, Department of Radiation Oncology, Regional Cancer Centre, Medical College Campus, Thiruvananthapuram 695011, Kerala, India. drcessalthomas@gmail.com

72 Yr old PS-2 Ca Larynx T3N0

Dr Chintam Datta Sindhu

72 yr PS-2 T3N0 disease



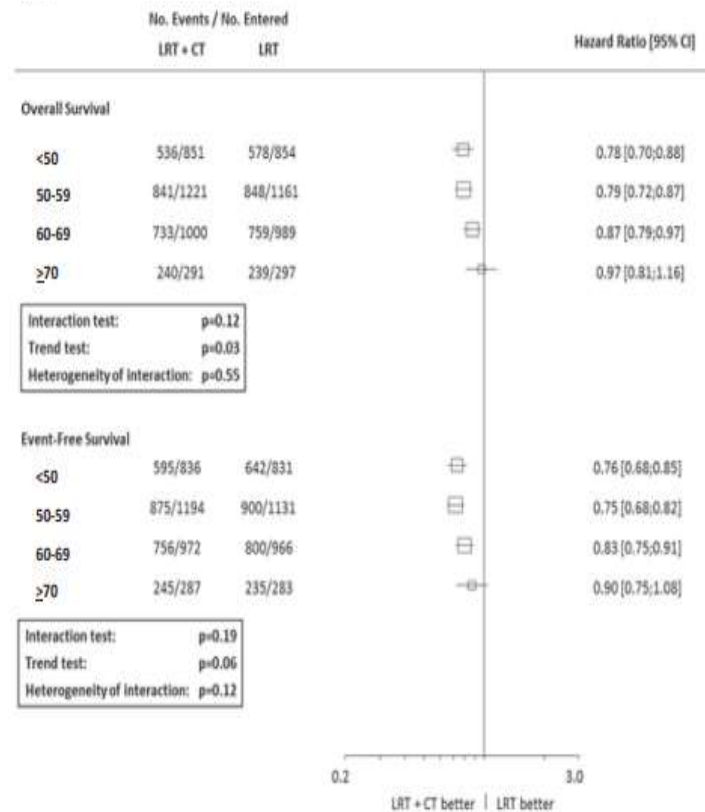
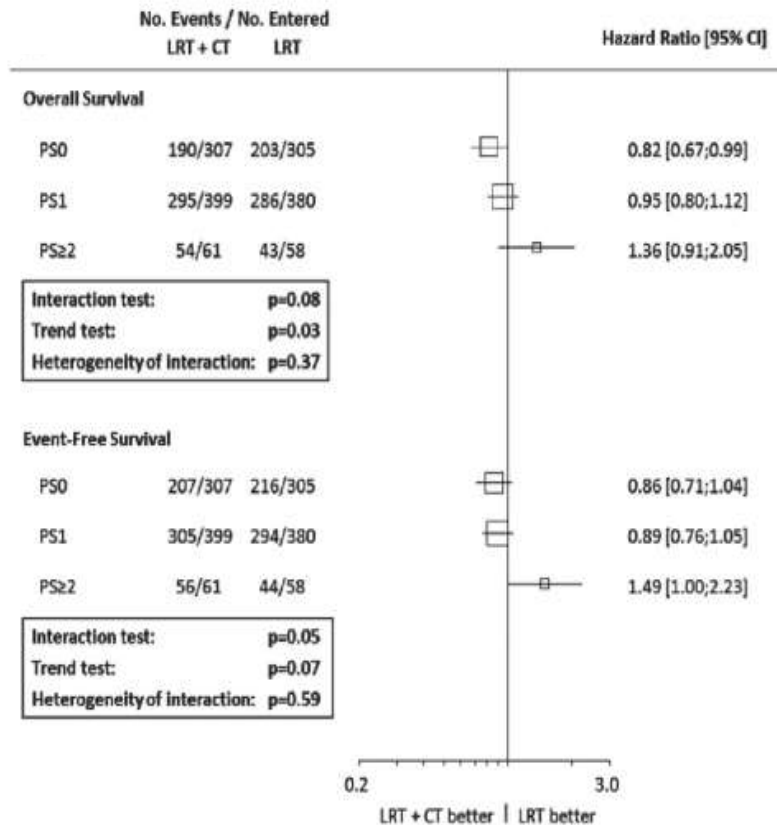


Original Article

Meta-analysis of chemotherapy in head and neck cancer (MACH-NC): An update on 107 randomized trials and 19,805 patients, on behalf of MACH-NC Group



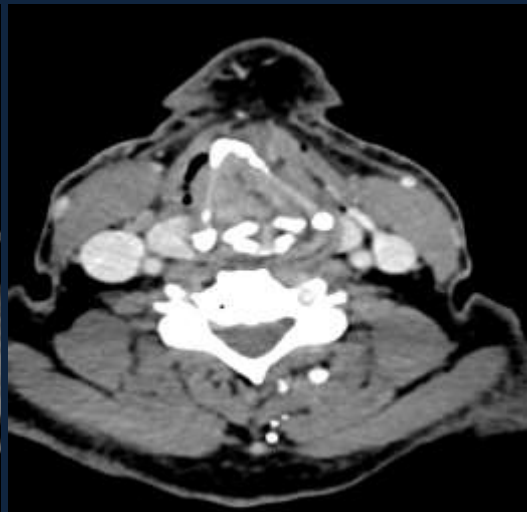
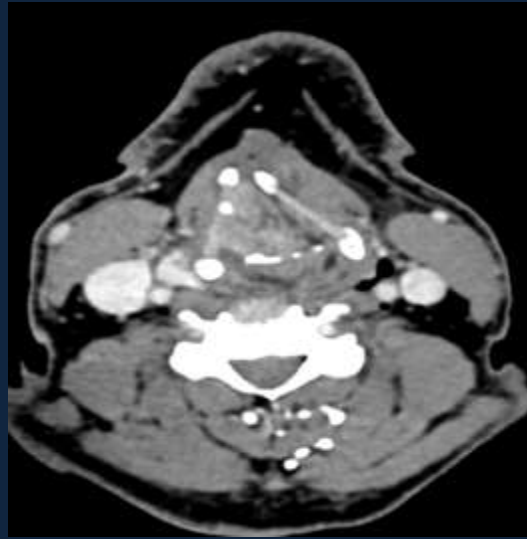
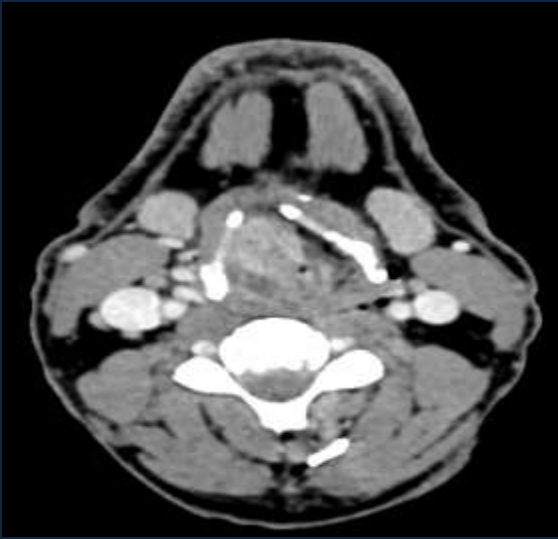
Benjamin Lacas ^{a,b}, Alexandra Carmel ^a, Cécile Landais ^a, Stuart J. Wong ^c, Lisa Licitra ^d, Jeffrey S. Tobias ^e, Barbara Burtness ^f, Maria Grazia Ghi ^g, Ezra E.W. Cohen ^h, Cai Grau ⁱ, Gregory Wolf ^j, Ricardo Hitt ^k, Renzo Corvò ^l, Volker Budach ^m, Shaleen Kumar ⁿ, Sarbani Ghosh Laskar ^o, Jean-Jacques Mazeron ^p, Lai-Ping Zhong ^q, Werner Dobrowsky ^r, Pirus Ghadjar ^s, Carlo Fallai ^t, Branko Zakotnik ^u, Atul Sharma ^v, René-Jean Bensadoun ^w, Maria Grazia Ruo Redda ^x, Séverine Racadot ^y, George Fountzilas ^z, David Brizel ^{aa}, Paolo Rovea ^{ab}, Athanassios Argiris ^{ac}, Zoltán Takácsi-Nagy ^{ad}, Ju-Whei Lee ^{ae}, Catherine Fortpied ^{af}, Jonathan Harris ^{ag}, Jean Bourhis ^{ha,af}, Anne Aupérin ^{ah}, Pierre Blanchard ^{aj,ak,al}, Jean-Pierre Pignon ^{am}, on behalf of the MACH-NC Collaborative Group



ChemoRT in patients underwent Tracheostomy

Dr Drashti Patel

CCRT or Surgery followed by Adjuvant?



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> Mol Clin Oncol. 2022 Nov 15;18(1):1. doi: 10.3892/mco.2022.2597. eCollection 2023 Jan.

Outcomes of organ preservation treatment in advanced laryngeal carcinoma: A retrospective analysis from a single institution

Afsar Fasaludeen ¹, Rejnish Ravi Kumar ¹, Malu Rafi ¹, Farida Nazeer ¹,
 Aparna Mullangath Prakasan ¹, Naveen Kumar ¹, Preethi George ², Kunnambath Ramadas ¹,
 Kainickal Cessal Thommachan ¹

Affiliations + expand

PMID: 36545209 PMCID: PMC9756020 DOI: 10.3892/mco.2022.2597

Free PMC article

N=630 patients

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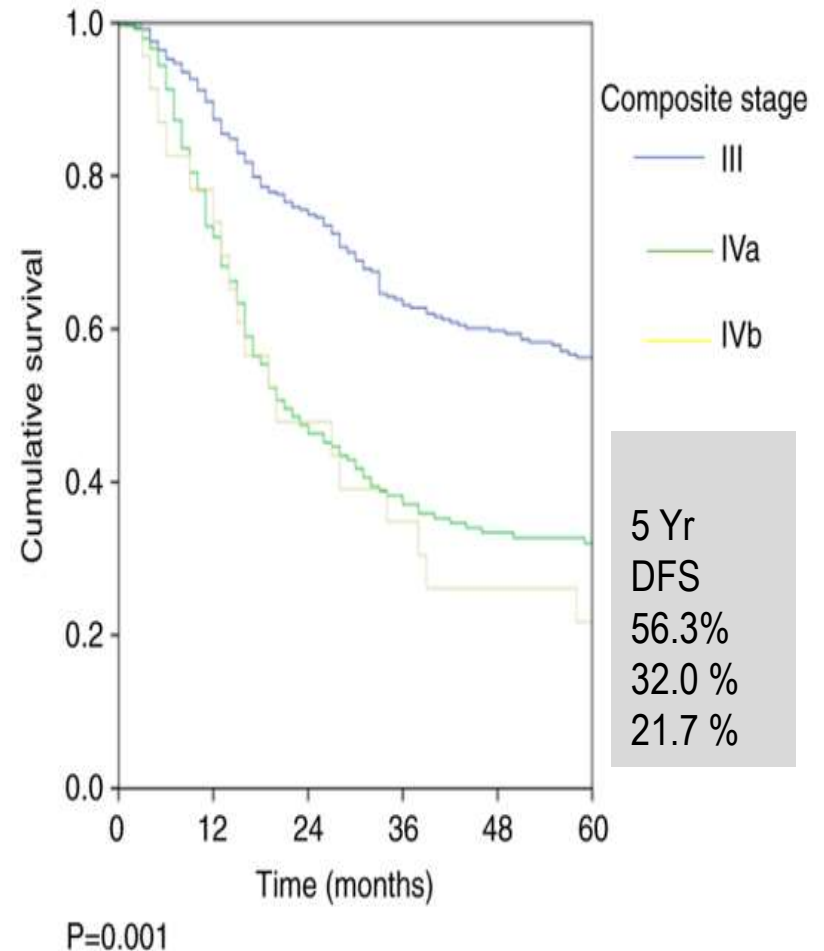
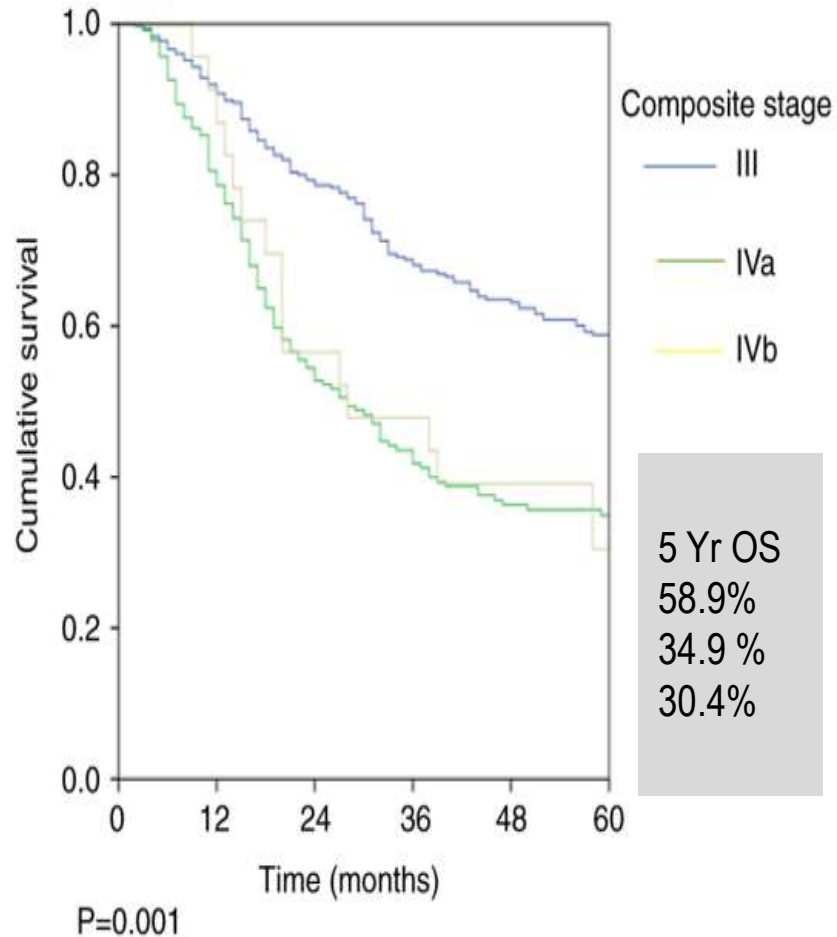


Composite stage

Stage III	367	58.1
Stage IVa	240	38.3
Stage IVb	23	3.6

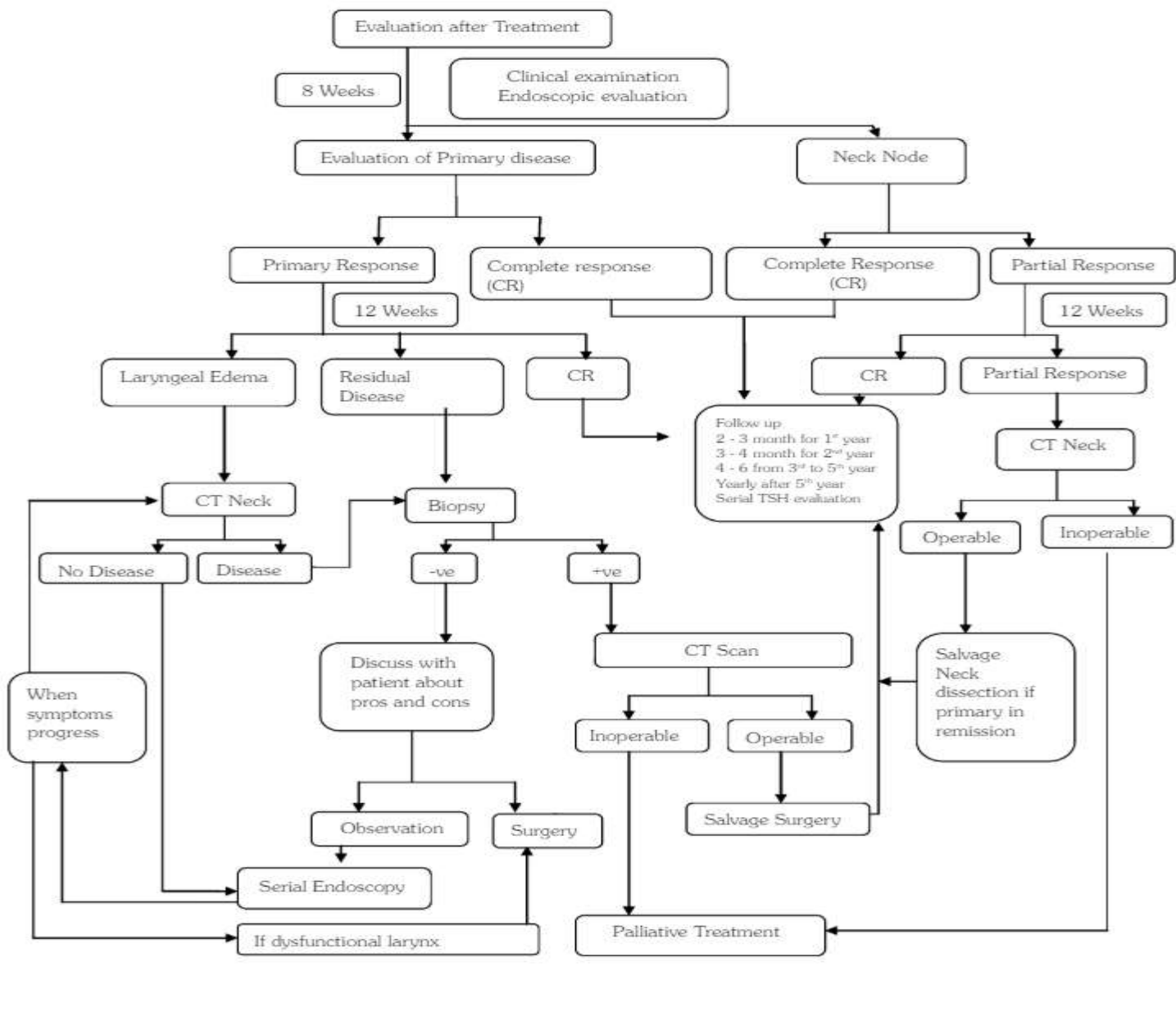
CCRT	295	46.8
IC followed by CCRT	139	22.1
IC followed by RT	17	2.6
RT alone (no chemotherapy)	177	28.1

Median follow up 59 Months



How you will follow up after ChemoRT/RT

Dr Drashti Patel



Survival of patients received ChemoRT

Dr Aditya Ambesh

RTOG 91-11 Update

The 5- and 10-Year Estimates of Efficacy End Points

End Point	RT + Induction Chemotherapy		RT + Concomitant Chemotherapy		RT Alone	
	Estimate (%)	95% CI (%)	Estimate (%)	95% CI (%)	Estimate (%)	95% CI (%)
Laryngectomy-free survival						
5 years	44.1	36.6 to 51.6	47.0	39.5 to 54.5	34.0	26.8 to 41.3
10 years	28.9	21.9 to 36.0	23.5	16.8 to 30.3	17.2	11.2 to 23.3
Larynx preservation						
5 years	70.8			78.1 to 89.2	65.8	58.7 to 73.0
10 years	67.5			75.9 to 87.6	63.8	56.5 to 71.1
Local control						
5 years	58.2			64.3 to 77.9	53.6	46.1 to 61.1
10 years	53.7			62.3 to 76.1	50.1	42.5 to 57.7
Locoregional control						
5 years	54.8			60.7 to 74.7	51.2	43.7 to 58.8
10 years	48.9			58.1 to 72.4	47.2	39.6 to 54.8
Distant control						
5 years	85.3	79.9 to 90.6	86.4	81.2 to 91.6	78.0	71.7 to 84.3
10 years	83.4	77.7 to 89.0	83.9	78.2 to 89.5	76.0	69.4 to 82.5
Disease-free survival						
5 years	37.7	30.4 to 45.0	38.0	30.8 to 45.3	28.0	21.1 to 34.8
10 years	20.4	14.0 to 26.7	21.6	15.2 to 28.0	14.8	9.2 to 20.3
Overall survival						
5 years	58.1	50.6 to 65.5	55.1	47.6 to 62.6	53.8	46.1 to 61.4
10 years	38.8	31.2 to 46.3	27.5	20.4 to 34.5	31.5	24.1 to 39.0

10 yr OS

- CCRT -27.5%
- IC followed by RT= 39.8%
- RT alone – 31.5%

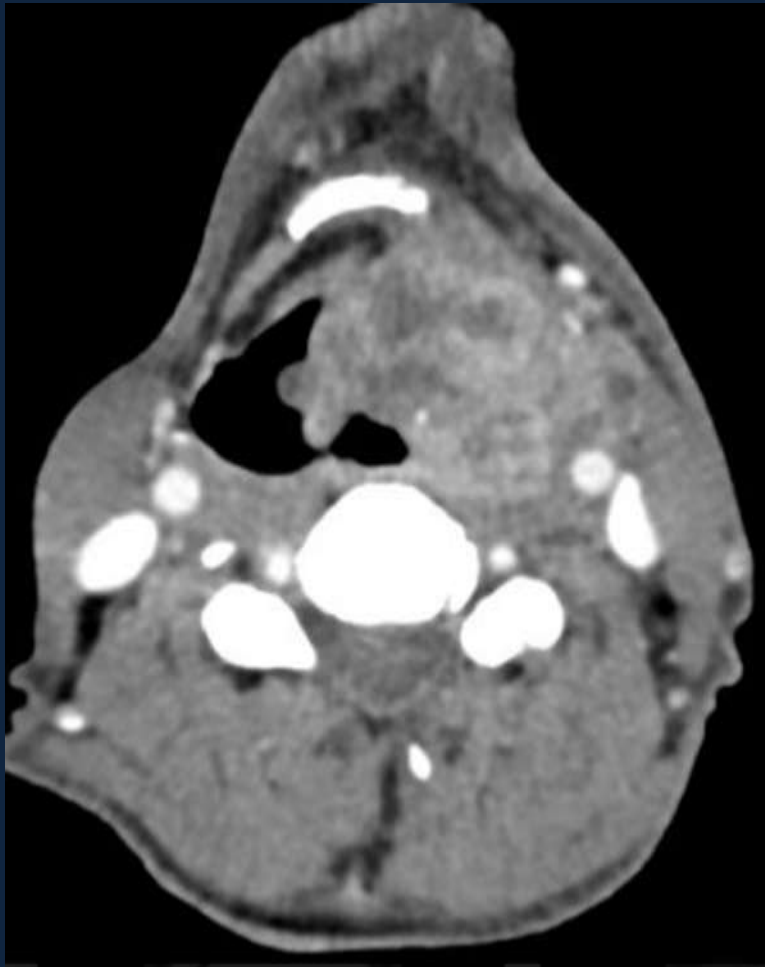
Management of CT4a Ca Larynx

Dr Aditi Agrawal

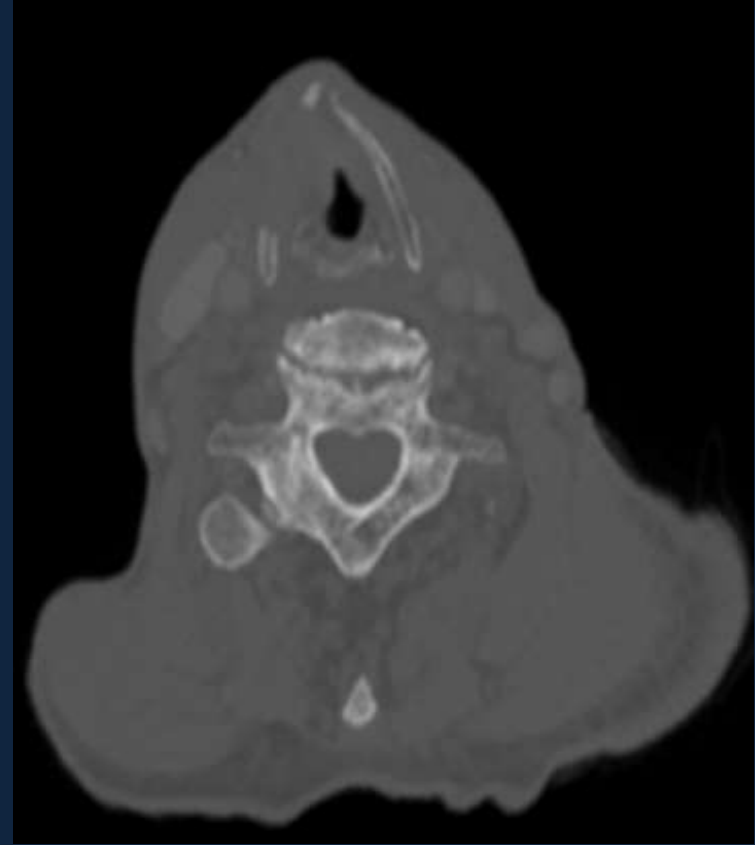
CT4a - Stage IVa

- Extra laryngeal extension with cartilage +/-
- Trachea
- Thyroid
- Oesophagus
- Extrinsic muscles of the tongue

T4a with cartilage intact



67 PS-1 Stage and Management?

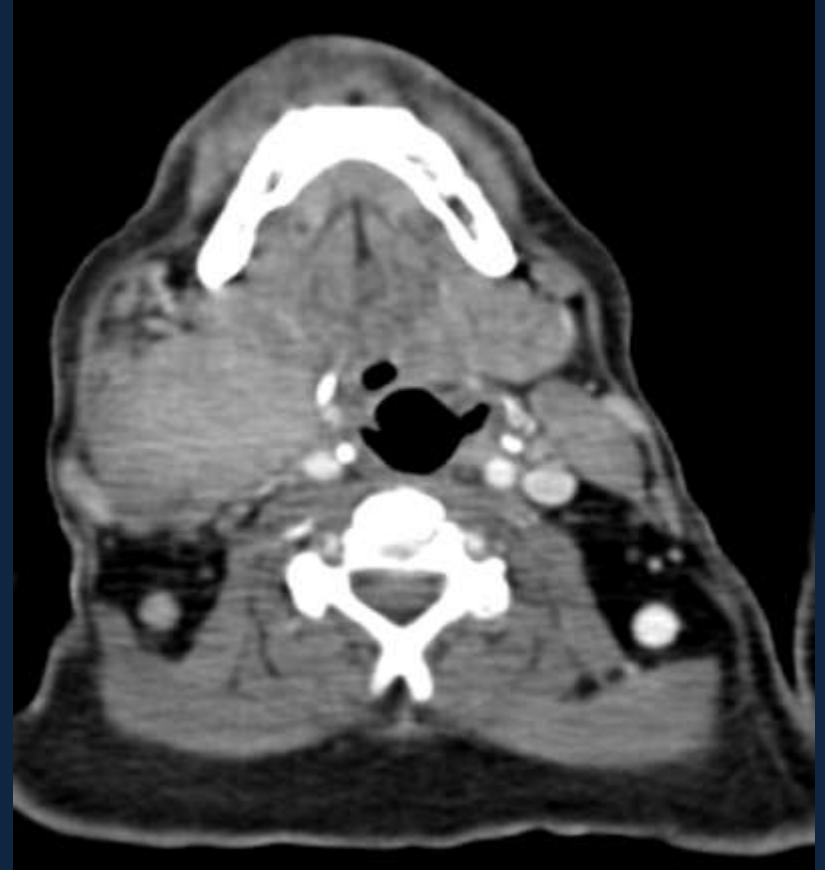
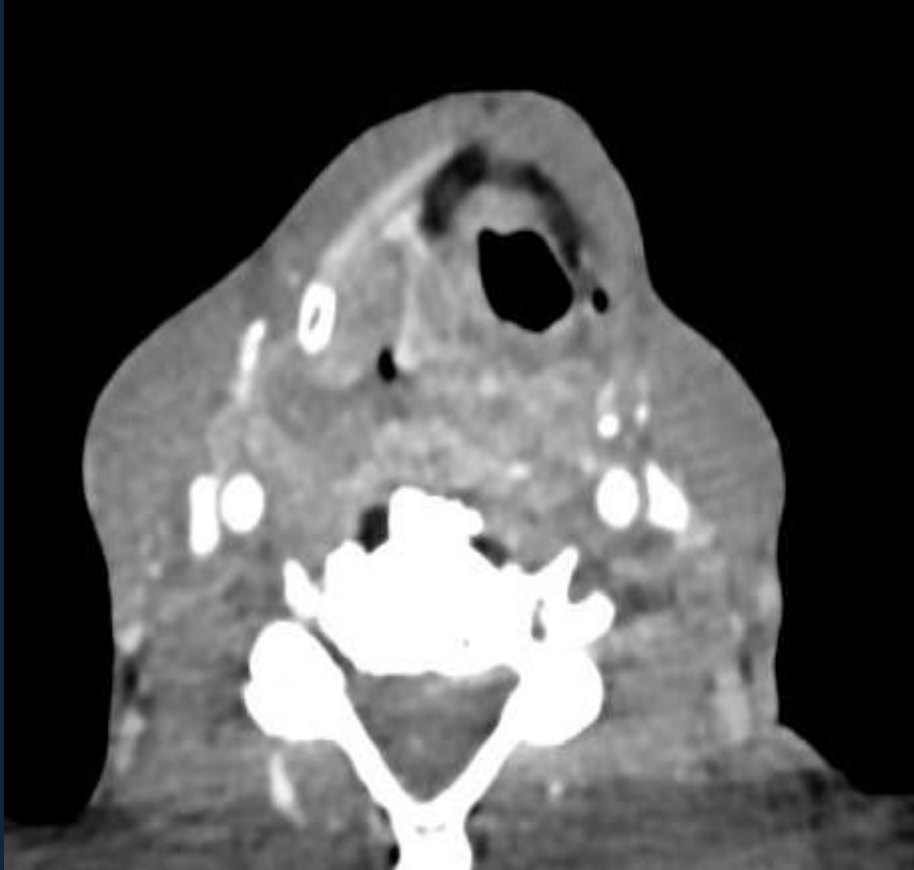


Planned treatment – Surgery followed by adjuvant treatment

Management of T4b/N3 disease

Dr Chebolu Rushikesh Goud

T4b -Stage IVb



T4b/N3- stage IVB- Radical approach

- Only in selected cases
- Good PS
- Young patient
- Low volume disease
- Absence of heavy nodes
- Good social support
- Highly motivated

Radical approach -T4b

- With cartilage intact- CCRT
- With cartilage involvement –IC and reassessment

Take home messages

- T1-T2N1-N2- CCRT
- T3N0-N2-CCRT- **If no dysfunction**
- No proven data for Concurrent CDDP above 70 yrs.
- T4a with out cartilage destruction and no dysfunction – **CCRT**
- Induction chemotherapy is not routinely recommended
- T4a with cartilage destruction- **S+ Adjuvant treatment**
- T4b- **selected patient**- Radical Rx
- N3- **selected patient**- Radical Rx
- Elderly patients and poor GC ,Palliative treatment

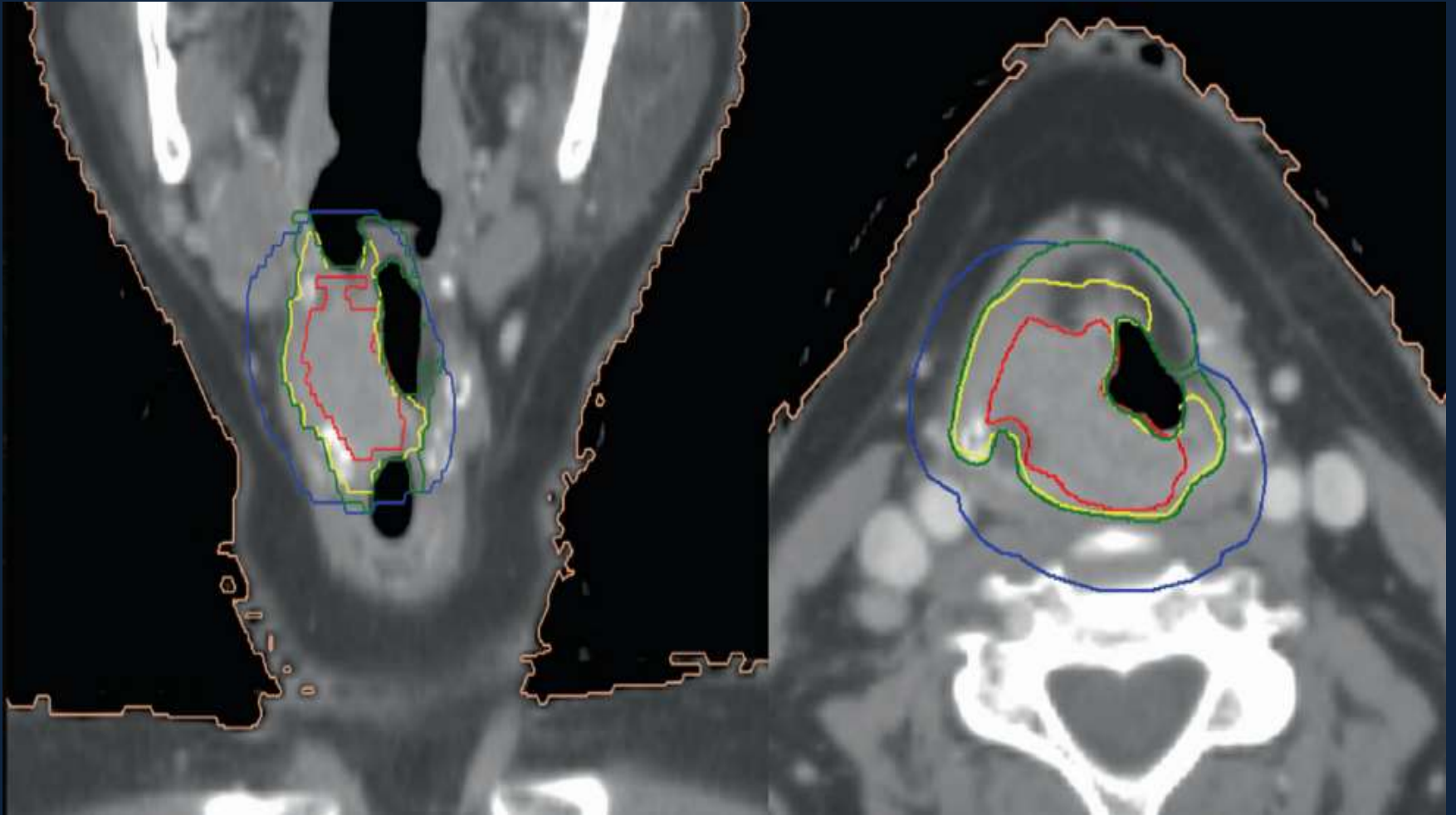
HEAD AND NECK ONCOLOGY SESSION

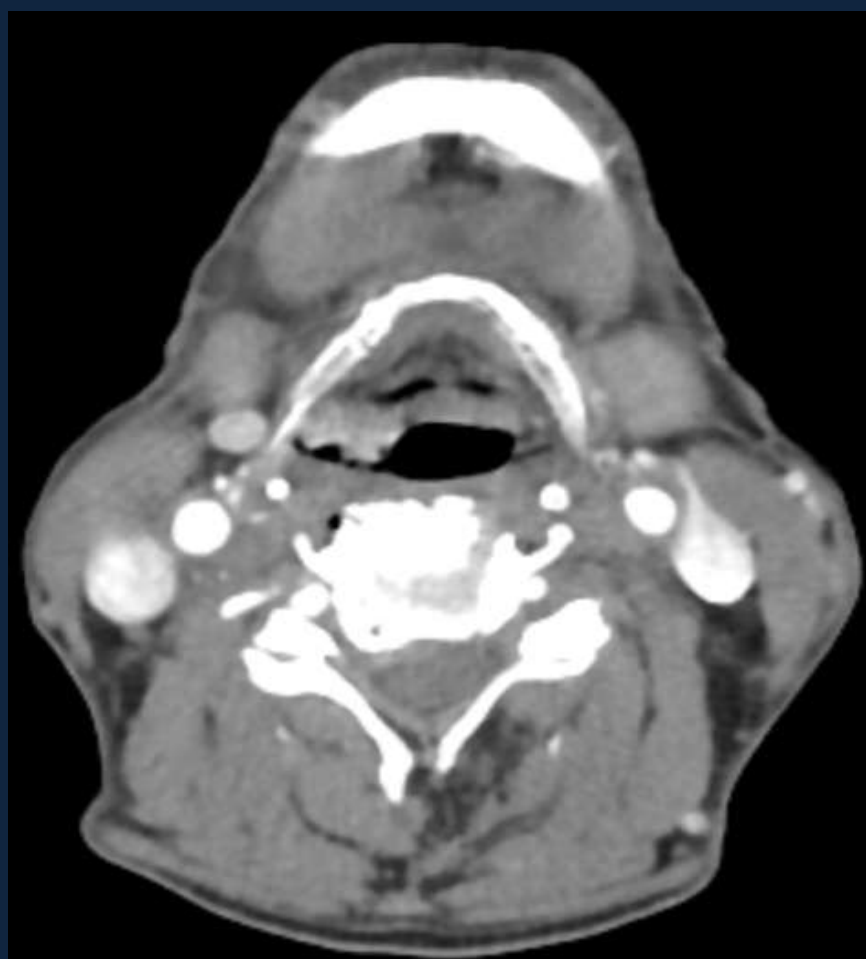
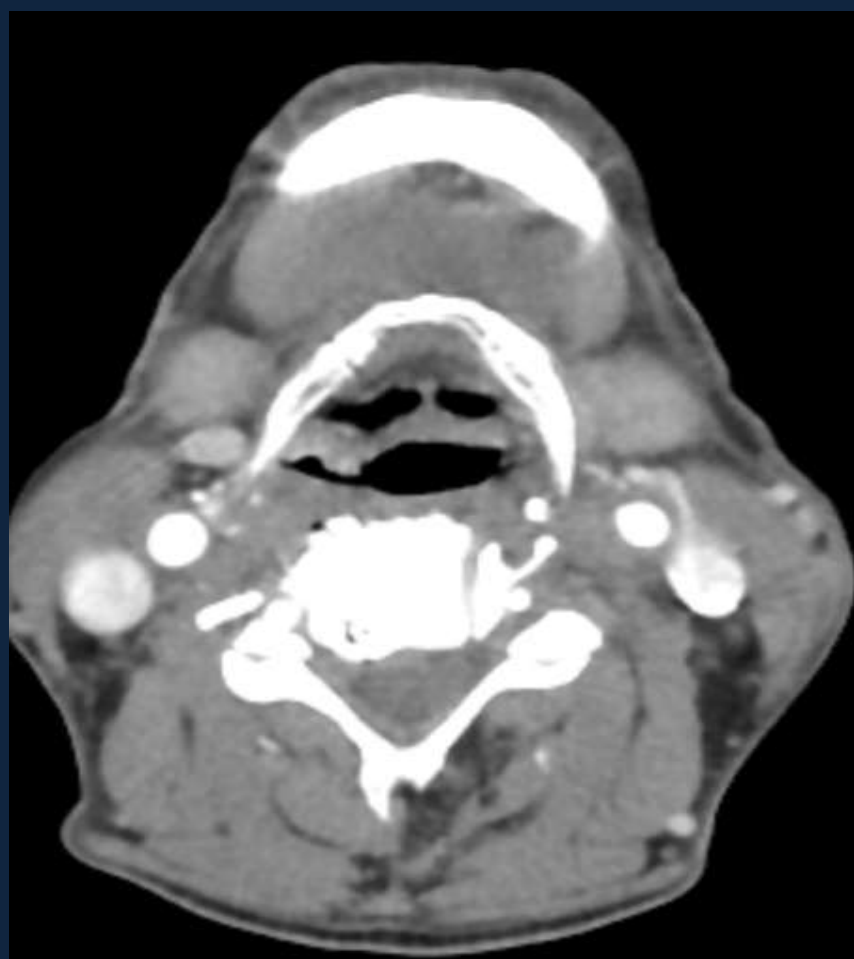
	Chairpersons: Dr Belliappa M.S, Consultant Radiation Oncologist, Aster CMI, Bengaluru Dr Sudhir Singh, Professor, Department of Radiation Oncology, King George Medical University, Lucknow		
10:30 AM to 10:50 AM	Emerging insights into the Genetic map of Head and Neck cancers	Speaker	Dr Sanjoy Chatterjee Consultant, Tata Medical Centre, Kolkata
10:50 AM to 11:10 AM	Contouring in Post op head and neck setting	Speaker	Dr Vincent Gregoire Head, Department of Radiation Oncology, Léon Bérard Cancer Centre, Lyon, France
11:10 AM to 11:30 AM	Immunomodulation of Radiotherapy - the Present and Future	Speaker	Dr. Cessal T Kainickal Additional Professor, Department of Radiation Oncology, Regional Cancer Centre, Thiruvananthapuram
11:30 AM to 11:50 AM	Trying to beat biology: Treatment of Oligometastatic Disease in HNSCC	Speaker	Dr Sarbani Ghosh Laskar Professor, Department of Radiation Oncology, Tata Memorial Hospital, Mumbai
11:50 AM to 12:10 PM	Adaptation - Newer insights and Future directions	Speaker	Dr Tanweer Shahid Consultant Radiation Oncologist, Apollo Cancer Centre, Kolkata
	Chairpersons: Dr R K Vyas, Professor, Department of Radiation Oncology, AIIMS, Jodhpur Dr Madhup Rastogi, Senior Consultant, Department of Radiation Oncology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow Prof Ezhilarasi Ravindran, Head of Department of Oncology, Chalmeda Anand Rao Institute of Medical Sciences Cancer Hospital and Research Institute, Karim Nagar, Telangana		
12:10 PM to 12:30 PM	Should concurrent chemotherapy be added to adjuvant radiation therapy in the treatment of Intermediate - Risk head and neck cancer?	Moderator	Dr Sushmita Ghoshal Professor of Radiotherapy, PGIMER, Chandigarh
		For	Dr Swarupa Mitra Director and Unit Head, Radiation Oncology, Fortis Cancer Institute, FMRI, Gurugram
		Against	Dr Pooja Nandwani Patel Director - Radiation Oncology, Sterling Hospitals, Ahmedabad
12:30 PM to 01:00 PM	The Battle against HPV - Where do we stand & Where are we going ?	Moderator	Dr Geeta Narayan Professor and Head, Department of Radiation Oncology, Vydehi Institute of Medical Sciences, Bengaluru
		Panelist	Dr. Sidanna Palled Professor, Dept. of Radiation Oncology, KMIO, Bengaluru
		Panelist	Dr Shantling Nigudgi Medical Head & Sr Consultant HCG Kalburgi
		Panelist	Dr Karthik KS Consultant Surgical Oncologist KMC Hospital, Mangalore
		Panelist	Dr Sharadha Rai Professor, Department of Pathology KMC Mangalore
		Panelist	Dr Vikram Maiya M Consultant, Apollo Hospitals, Bengaluru
		Panelist	Dr Nishitha Shetty Professor, Department of Medical Oncology, FMMC Mangalore
		Panelist	Dr R Vijayabhaskar Senior Consultant, Surgical Oncology, MMHRC Madurai

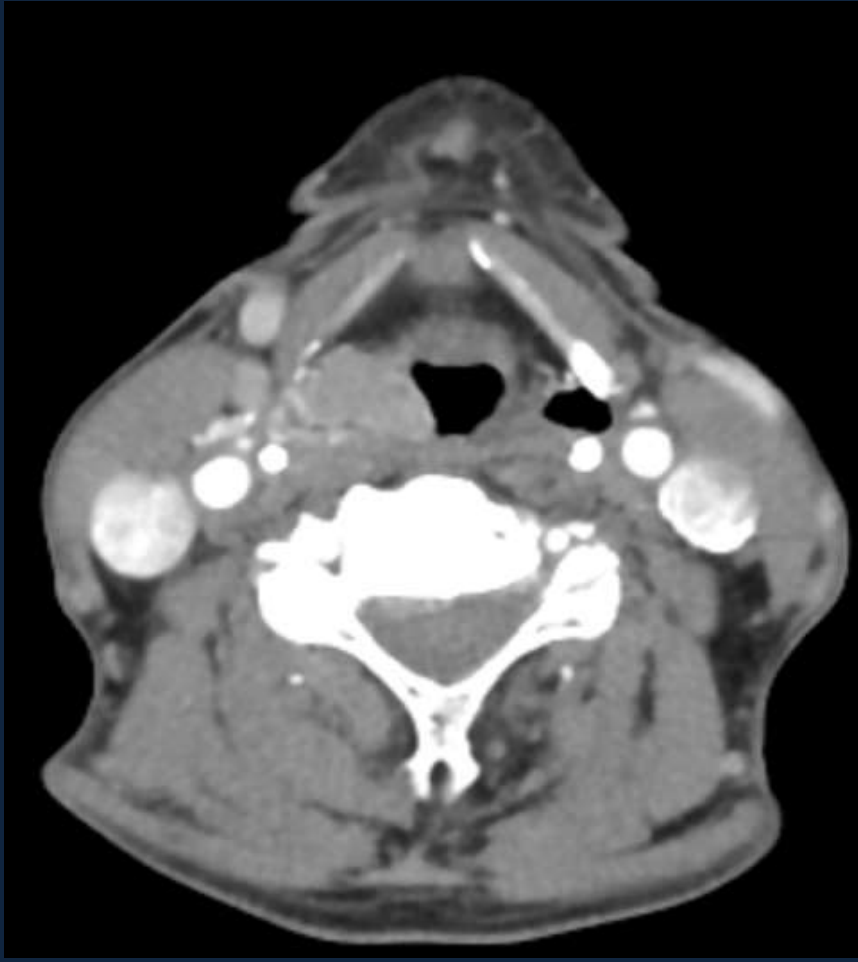
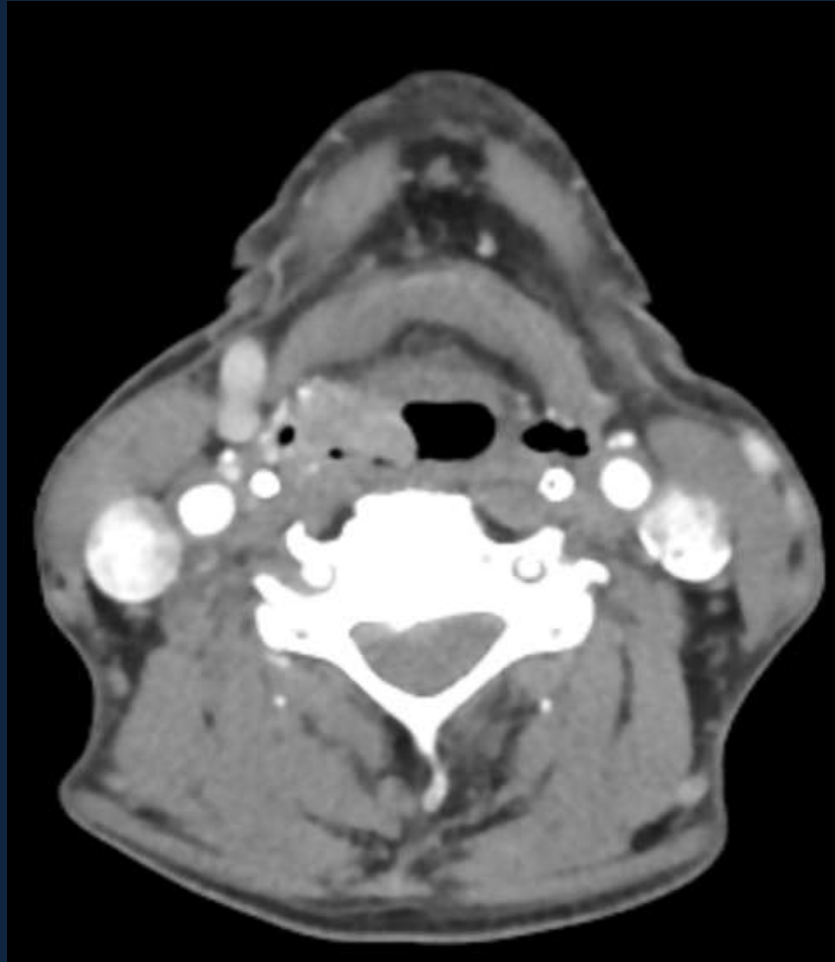


Thank you
drcessalthomas@gmail.com

T3 Larynx







Chemotherapy added to locoregional treatment for head and neck squamous-cell carcinoma: individual data

*J P Pignon, J Bourhis, C Domenge, L Designé, on behalf of the MACH-NC Collaborative Group**

Trial category	Hazard ratio (95% CI)	Chemo- therapy effect (p)	Heterogeneity (p)	Absolute benefit	
				At 2 years*	At 5 years*
Adjuvant	0.98 (0.85–1.19)	0.74	0.35	1%	1%
Neoadjuvant	0.95 (0.88–1.01)	0.10	0.38	2%	2%
Concomitant	0.81 (0.76–0.88)	<0.0001	<0.0001	7%	8%
Total	0.90 (0.85–0.94)	<0.0001	<0.0001	4%	4%