



TOTAL SKIN ELECTRON BEAM THERAPY FOR MYCOSIS FUNGOIDES

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Primary Cutaneous lymphomas are composed of both T cells and B cell lymphomas and are rare conditions. Mycosis Fungoides (MF) is a malignancy of T cells and accounts for 50% of all cutaneous lymphomas.

Clinical Features

Clinically it can present as erythematous and scaling skin patches which are generally annular or arc shaped. These later on progress too form infiltrative scaling plaques, nodules and sometimes have superficial ulcerations. Classically it presents in sun shielded areas like back, arms, chest etc. (Fig1-3)

Clinical Evaluation

Initial clinical evaluation must include detailed whole body skin examination preferably with pictorial documentation. One should specifically look for lesions in areas which are likely to get under dosed with classical Total Skin Electron Therapy (TSET). These areas include vertex area of scalp, post auricular region, medial aspect of eye, axillae, perineum, sole of feet, undersurface of breast cancer in females, undersurface of penis in males and under surface of belly in obese patients. One should also document nodular ulcerated lesions as they would also merit boost after classical TSET. All peripheral lymph nodes sites and chest and abdominal examination should also be carried out.

Diagnostic Workup

Skin biopsy and Immunohistochemistry (IHC) have classical findings of

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See
you
all
in
AROICON
Lucknow

From AROI, ICRO office &
AROI Newsletter Editorial Board

I am writing this message with a very heavy heart.

Sudden heavenly departure of three colleagues one after another in last quarter has left me little stunned and at loss of words.

Dr. D Ghosh, a stalwart from Delhi who had put more than five decades in service of Radiotherapy.

Dr. M C Pant, AROI President Elect, who has been mentor, great teacher and true friend to so many Radiation Oncologists left us shocked when he was to play host to forthcoming AROI conference at Lucknow we all were eagerly looking forward too.

And loss of Dr. Arti Kaul from Indore, was biggest shocker as she lost her life during a routine procedure at an age when she was just peaking up in her career.

I pray to God to give peace and rest to departed souls.

Life is a journey and we continue it despite the losses and hardships.

I request my colleagues to remember them in their hearts, their prayers, their festivities and in our forthcoming events.

Show them your humanity and professional acumen. Make them feel proud when looking at us from heavenly abode.

With warm regards,

Dr. Rajesh Vashistha
Secretary General AROI

TOTAL SKIN ELECTRON BEAM THERAPY FOR MYCOSIS FUNGOIDES



Fig.1 Arc shaped plaque lesion with erythema



Fig.2 Nodular lesion with hyperpigmentation

epidermotropism, Pautrier's micro abscesses, CD 2,3,4,5 and 45 positivity and CD 8 and 30 negative on IHC. Any palpable lymph node must be subjected to excisional biopsy. PCR for T cell rearrangement should be done on biopsy sample to confirm T cell clonality. Blood investigations include Complete Hemogram, ESR, Serum LDH, LFT and RFT. Flowcytometry should be done to rule out / confirm presence of malignant circulating T cells. Work up also includes CECT

Chest and Abdomen and Bone marrow aspiration and biopsy.

Treatment

Treatment approaches to MF vary according to stage at presentation. Early stage disease (IA-IIA) can be managed with skin directed therapy like topical or intralesional steroids, PUVA and UVB.

Total Skin Electron Therapy (TSET) is the key treatment for patients who present with diffuse or generalized skin lesions and also for palliation of symptoms in patients with Scleroderma or those with distant metastases. Technically and dosimetrically TSET is quite challenging procedure as the entire body skin needs to be irradiated uniformly and superficially using electron beams. Various techniques are available for TSET. We are largely following the Modified Stanford Technique and EORTC Consensus Guidelines at our centre. We briefly present our treatment protocol and initial experience of treating seven patients with MF with TSET during last four years.



Fig3_Plaque like lesion on back with ulceration

Our Experience

We commissioned TSET at Max Hospital in Dec 2009. So far we have treated seven patients with TSET. Three patients had T3N0M0 B0 (IIB), another three had T3N1M0 B0 (IIB) and one patient had T4N1M0 B0 (IIIA) stage disease. Four patients had received previously received chemotherapy outside our hospital.

Patients are treated in standing position in front of the radiation beam in six different positions with external eye shields and nail shields. Different hand and leg positions are used



Fig4_Boost to feet and perineum

(as described in classical Stanford technique) to maximize skin unfolding and improve dose homogeneity. The distance from gantry head to patient is 4 meters. The patient is placed behind a perspex shield / scatter foil of 10 mm thickness. Treatment is delivered using 6 MeV electrons using High Dose Rate mode with Varian Clinac iX machine: in six directions with two axial electron beams each with 17.5 degree angle to the horizontal level. On treatment Day I; AP, RPO and LPO positions are treated and on Day II; PA, RAO and LAO positions are treated with the same doses. Thus over the course of a two day treatment cycle; patient receives 2 Gy to the entire skin surface. This pattern continues with four days a week treatment. Usually a planned treatment break is given after a 4 week treatment schedule. The total dose delivered is 30-36 Gy over 9-10 weeks. In vivo dosimetry is performed using Gafchromic films placed over the patient at various sites. Boost treatment with electrons was added in alignment with in vivo dosimetry findings and to thicker lesions. Boost was given to soles of feet (20 Gy/10 Fractions), perineum 16-20 Gy/10 Fractions, scalp, thick lesions and under surface of Breast (in female patients). (Fig4-5)



Fig6_Post radiation nail dystrophy

While on treatment patients were regularly evaluated for any skin desquamation and hematological toxicity. All patients had skin erythema, scaling, alopecia & nail dystrophy. (Fig 6) Two patients developed pedal edema (both were diabetic), two patients had grade 2-3 hematological Toxicity (both were post Chemotherapy), one patient required admission for supportive care and one patient could not complete treatment due to poor tolerance. Two of the six patients (33%) who completed treatment had partial response while 4 patients (66%) had complete clinic radiological response. Median duration of Response was 12 months (range 3-36 months). One out of 6 patients had nodal relapse, one had localized skin relapse and one had generalized skin relapse.

Summary

TSET is one of the most effective treatment modality for MF. It is technically challenging and requires stringent quality assurance and team work.

Suggested Reading

Cutaneous Lymphomas. Benjamin D. Smith et al: *Seminars in Radiation Oncology* Vol. 17: 158-168, 2007.
Total Skin Electron radiation in the management of Mycosis Fungoides. Consensus of EORTC Cutaneous Lymphoma project group. Glenn W Jones et al: *J Am Acad Dermatol*. Vol. 47: 364-370, 2002.
AAPM Task Force Guidelines, TG 23.



Applicants for AROI Awards & Fellowships

Medical Physicist Best Paper

Sr. No	Name	College Name
1	Akhil Kapoor	ATRCT&RI, SPMC, Bikaner, Rajasthan
2	Senthilkumar	Govt. Rajaji Hospital & Madurai Medical College, Madurai
3	Deepak Arora	Max suprespeciality Hospita, PPG
4	Jyoti Bisht	Swami Rama Himalayan University, Jollygrant, Dehradun
5	Udaykumar D	SGPGIMS, Lucknow

Dr. MS Gujral/Dr. JM Pinto Gold Medal

Sr. No	Name	College Name
1	Priya pokru	M.S.RAMAIAH Medical College, Bangalore
2	Harjot Bhajwa	Indo American Cancer Hospital & Research Centre, Hyderabad
3	Shikhar Kumar	PGIMER, Chandigarh
4	Rohit Kabre	Govt. Med college & Hospital, Nagpur
5	Abhinav Mutneja	SAMC and PG institute, Indore.
6	Arun Elangovan	PGIMER, Chandigarh
7	Deepak Das	PGIMER, Chandigarh
8	Avipsa Das	Banaras Hindu University, Varanasi
9	Thiraviyam E	JIPMER, Pondicherry
10	John Sebastian	MS Ramiah Medical College, Bangalore
11	Prarthana S	Christian Medical College, Ludhiana
12	Samreen Zaheer	JNMCH, AMU, ALIGARH
13	Rajmane P	MADRAS MEDICAL COLLEGE, CHENNAI.
14	Ayush Naik	SAMC and P.G Institute, Indore
15	Bhannu Prasad V	All India institute of Medical Sciences New Delhi.
16	Madhulika Vijaykumar	BIRO, MADRAS MEDICAL COLLEGE, CHENNAI
17	Birendra k Yadav	PGIMER, Chandigarh
18	Chinna Babu	PGIMER, Chandigarh
19	Nabiza Begum	KMIO, BANGALORE
20	Vivek Anand	MS Ramaiah Medical College, Bangalore
21	Sarthak Tandon	Rajiv Gandhi Cancer Institute and Research Center, New Delhi
22	Shashank Srinivasan	Pushpanjali Crosslay Hospital' Ghaziabad
23	Romikant Grover	CMC, Ludhiana
24	Manisha Himthani	JK Cancer Institute, GSVM Medical College, Kanpur
25	Jayasree Kuna	SVIMS, Tirupaty, AP
26	Saurav Ghosh	RGKMCH, Kolkata
27	Sathiya K	Apollo Hospital, Chennai
28	Deepika Malik	M.G.I.M.S., Sevagram (Wardha)
29	Gautam Santosh	TMH, Mumbai
30	Farida Jane Monian	R G Kar Medical College & Hospital, Kolkata
31	Amulya Koti	Christian Medical College, Vellore
32	Archana Reddy	GKNM Hospital, Coimbatore
33	Divya Tandra	King's George University, Lucknow
34	Nihanthy Sreenath	Kidwai Memorial Institute of Oncology
35	Indranil Khan	Medical College Kolkata
36	Rituraj Upadhyay	AIIMS, New Delhi
37	Sindhu N	Medical College and Research Centre, Bangalore
38	Sanchan Mandal	Saroj Gupta Cancer Centre and Research Centre, , Kolkata
39	Meeka Geeta	Indra Gandhi Medical College and Research Centre, Patna
40	Mani Kandam	AIIMS, New Delhi
41	Pavan	Cancer Insitute, Adyar
42	Sanket Kotne	AIMS, Kochi
43	Mohd. Naved Alam	J.N. MEDICAL COLLEGE, AMU ALIGARH
44	Vamsi Raj Kota	Indira Gandhi institute of Medical Sciences, Patna

Obituary



Prof MC Pant, President of the AROI, passed away on 13th August 2015 after a brief illness.

On behalf of the Association of Radiation Oncologists of India, we pay our tribute and respects to a very dynamic personality, who, through his leadership and infectious enthusiasm was able to contribute to our society and particularly to the UP Chapter of the AROI. He reached great professional heights, being honored and decorated with the Dr BC Roy and Padma-Shri Awards.

His selfless and generous spirit of service towards the cause of development of cancer facilities and awareness, particularly in the State of Uttarakhand and Uttar Pradesh, is a trait to be emulated and will continue to inspire us in the times to come.

IMPORTANT

Every effort has been made to make the List of Fellowships and Awards correct, however if you find any omissions/corrections, please contact AROI General Secretary., Dr. Rajesh Vashistha immediately

Applicants for AROI Awards & Fellowships

Dr. G C Pant Young Doctor Award

Sr. No	Name	Institute
1	Vijai Simha	PGIMER, Chandigarh
2	Irfan Bashir	BHMRC, New Delhi
3	Sandip Kumar Barik	Dr RML IMS, Lucknow
4	Meetakshi Gupta	Tata Memorial Hospital, Mumbai
5	Sagar Gayakwad	Tata Memorial Hospital, Mumbai
6	Pramod Kumar Gupta	SGPGIMS, Lucknow
7	Lavanya Naidu	Tata Memorial Centre, Mumbai
8	Bharat Dua	Apollo Hospital, New Delhi
9	Deepak Gupta	Medanta The Medicity, Gurgaon
10	Tranjan Basu	Medanta The Medicity, Gurgaon
11	Rajan Yadav	SGPGIMS, Lucknow
12	Pankaj Agarwal	MSSH, Patparganj, Delhi
13	Naveen Mummudi	CMC, Vellore

Proffered Paper >40

Sr. No	Name	Institute
1	Narendra Kumar	PGIMER, Chandigarh
2	Meenu Gupta	Swami Rama Himalayan University, Dehradun
3	Virendra Vyas	MGIMS, Sevagram, Wardha
4	Nanditha Nukala	MNJ IO& RCC , Red Hills, Hyderabad

Proffered Paper <40

Sr. No	Name	Institute
1	Suparna Kantipal	Institute of PG education & research, Kolkata
2	Budhi Yadav	PGIMER, Chandigarh
3	Ashu Abhishek	Medanta The Medicity, Gurgaon
4	Shyam Bisht	Medanta The Medicity, Gurgaon
5	Kallol Bhadra	Kokilaben Dhirubhai Ambani Hospital, Mumbai
6	Jayant Sastri Goda	TMH, Mumbai

Fellowship Age Group >50 (AROI-Kirloskar Therapeutics)

Sr. No	Name	Institute
1	Dr. Virendra Bhandari	SAMCPG Institute, Indore
2	Rakesh Kapoor	PGIMER, Chandigarh
3	Harpreet Singh	Action Blaji Hospital, New Delhi
4	Hanuman Yadav	GGs Medical College & Hospital , Faridkot
5	Sahid Ali Siddiqui	Medical College, Aligarh

Fellowship age group 40-50

(AROI- DR. Reddy's Lab, AROI- Merck India Ltd., AROI- Novartis India Ltd.)

Sr. No	Name	Institute
1	Pavan Kumar	NIMS Hyderabad
2	Meenu Gupta	Swami Rama Himalayan University, Dehradun
3	Rahat Hadi	Dr. RMLIMS, Lucknow
4	Manish Gupta	IGMC, Shimla
5	Rakesh Jalali	TMH, Mumbai
6	Deepak Abrol	GMC Jammu
7	Muninder Kumar	Dr Rajendra Prasad GMC, Kangra

Announcements

ICRO

GBM

Meeting on 26 Nov 2015 after completion of iCROteaching programme

AROI

GBM1

On 28 Nov 2015 at 6 pm or just after completion of best paper session

To discuss on resolution passed in Imphal, GBM & action taken after that

GBM 2

On 28 Nov after completion of GBM 1

To discuss resolution passed in GBM 1

Applications are invited through Zonal chapter to hold the following conference/teaching course

1) AROI Annual Conference - 2018

2) AROI-ESTRO teaching course -2017

3) Best Of ASTRO -2016

4) Three AROI-ICRO SUN teaching programs

Applicants for AROI Awards & Fellowships

Sr. No	Name	Institute
1	Gangadhar Vajrala	MNJO&RCC, Hyderabad,
2	Vandana Singh Kushwaha	King George's Medical University, Lucknow
3	Tripti Saxena	Max Super Speciality Hospital, PPG
4	Tasneem Iilamwala ,	Hyderabad
5	Divya Khosla	GMCH, Chandigarh
6	Sandip Kumar Barik	Dr RML IMS, Lucknow
7	Prahlad H Y	Kasturba Medical College and Hospital, Manipal
8	Deepak Gupta	Medanta The Medicity, Gurgaon
9	Ravindra Mahajan	Inlaks & Budhani Hospital, Pune

Fellowship age group <35
(AROI- DR. Reddy's Lab)

1.	Dr. Lucy Pattanayak	AH Regional Cancer Centre, Cuttack
2.	Dr Sanjay Singh Chandel	G R Medical college , gwalior
3.	Sayan Paul	King's George University, Lucknow
4.	Irfan Bashir	Batra Hospital & Medical Research Centre, Delhi
5.	Suruchi Singh	TMH, Mumbai
6.	Amrut Kadam	VICTORIA HOSPITAL, BANGALORE
7.	Dodul Mondal	AIIMS, New Delhi
8.	Manjinder S Sidhu	Max superspeciality hospita, Bathinda
9.	Rambha Pandey	AIIMS, New Delhi
10.	Sanjeev K Gupta	Yashoda Cancer Institute, Secunderabad
11.	Pankaj Arora	Max superspeciality hospita, Mohali
12.	Mranalini Verma	SGPIMS, Lucknow
13.	Supna Marcus	GGSingh Medical College&Hospital, Faridkot.

Fellowship age group (35-40)

1	Priya pokru	M.S.RAMAAIAH medical college, Bangalore
2	Harjot Bhajwa	BIACHRI, Hyderabad
3	Vipin George	Government Medical College , Thiruvananthapur
4	Rajib Bhattacharjee	IPGME&R, Kolkata
5	Rahul Lal Chowdhary	Madras Medical college, Chennai
6	Naziba Karim	TMH, Mumbai
7	Abhinav Mutneja	SAMC and PG institute, Indore.
8	Thiraviyam E	JIPMER
9	Ashok kumar Ragavendra	MADRAS MEDICAL COLLEGE, CHENNAI
10	Prarthana S	Christian Medical College, Ludhiana
11	Farida Jane Monian	R G Kar Medical College & Hospital, Kolkata
12	K Nveen	V N Cancer Center, GKNM Hospital. Coimbatore
13	Rajmane P	MADRAS MEDICAL COLLEGE, CHENNAI.
14	Ayush Naik	SAMC and P.G Institute, Indore
15	Sathiya K	Apollo Hospital, Chennai
16	Saurav Ghosh	RGKMCH
17	Mousami Das	Medical college, Kolkata
18	Sanghamitra	R.G.Kar Medical College, Kolkata
19	Rajanigandha Tudu	Medical college, Kolkata
20	Akhil P	R G Kar MCH, Kolkata
21	Vipul Nauthiyal	CRI, SRHU, Dehradun
22	Arkoporovo	Medical college, Kolkata
23	Manisha Himtani	JK Cancer Institute, GSVM Medical College, Kanpur
24	Rohit Kabre	Govt. Med college & Hospital, Nagpur
25	Sambit Nanda	DR RMLIMS, Lucknow
26	Pooja Gupta	DR RMLIMS, Lucknow
27	Isha Jaiswal	DR RMLIMS, Lucknow
28	Romikant Grover	Christian Medical College, Ludhiana
29	Trinjan Basu	Medanta-The Medicity.
30	Madhulika Vijaykumar	MADRAS MEDICAL COLLEGE, CHENNAI
31	Divya Tandra	King's George University, Lucknow
32	Archana Reddy	GKNM Hospital, Coimbatore
33	Suranjan Maitra	NRS Medical College, Kolkata
34	Arpan Jan	NRS medical College

Neil Joseph Fellowship

Obituary



Dr. Dhananjay Ghosh, one of the pioneers of radiotherapy was born on 6th of October 1931. After taking

voluntary retirement from Safdarjung Hospital, New Delhi, He started the radiotherapy department at Batra Hospital which was one of the first cancer centers in private setup. He literally had seen the science of radiotherapy grow through these past decades. Starting from now archaic cobalt machines to the present day state of art true beam technology, Dr. Ghosh had seen it all develop over these many years of his career. Although he appeared to the unacquainted eye to be of the old school thoughts however he was surprisingly very well versed with the latest in radiotherapy. During his illustrious career he had taught generations of future radiation oncologist the nuances of the subject and was an inspiration to many. He left this world on 30th of July 2015 and the radiotherapy community lost one of its vital pillars. May his soul rest in peace.



Dr. Arti Kaul, born in Kashmir Valley, she studied in Indore and did her MD in Radiotherapy from MGM Medical College, Indore(MP). She was very active in AROI and was very social. She was senior consultant at Choithram Hospital, Indore. Her sudden death has been a great loss to family and fraternity at large. We pray to almighty to give strength to her family to bear this loss and peace to departed soul.

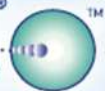
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Forthcoming Events 2015

National

Nov 2015

20-22 **APMICON-2015**

Division of Radiation Physics, RCC, Thiruvananthapuram
Contact person: Saju Bhasi Email: ampicon2015@gmail.com

Nov. 2015

26-29 **AROICON15**, Lucknow

Asstt.Prof. Sudhir Singh, Organizing Secretary
Dr. MC Pant, Organizing Chairman Email: aroicon2015@gmail.com

Dec 2015

5th AROI-ESTRO

Max Superspeciality Hospital, Saket
Contact person Dr. A. K. Anand
Email: anandka.55@gmail.com

Jan 2016

Jan 30-31 **YROC**

Aaruni Hospital, Rajkot
Contact person: Dr. Hemendra
Organizing Secretary 9726360025

Mar2016

34th **ICON**

Molecular Oncology Society

Contact person: Dr. Nikhil S Ghadyalpatil,
Organizing Secretary

Email: nikhilghadyalpatil@gmail.com

[Www.iconconferences.com](http://www.iconconferences.com)



8th Radiobiology Teaching Course

A Success

Venue	IGMC Shimla
Participants	60
Inauguration by	Dr. Rajeev Seam
Conducted by	Dr. Manoj Gupta
Outcome	Appreciated

Kudos !

Congrats !
for being in ABS session to



Daya N. Sharma, MD
All India Institute of Medical Sciences
New Delhi, India

ICRO Programme

21st ICRO PG Teaching Program

24th-25th October, 2015

Course coordinator:

Dr. Manish Gupta

Associate Professor, Dept. of Radiotherapy
Mahatma Gandhi Institute of Medical Sciences
Sevagram, Wardha – 442 102 (Maharashtra)
Mobile: 9881964568 Email: manishgupta@mgims.ac.in

Dr. Chaitali Waghmare

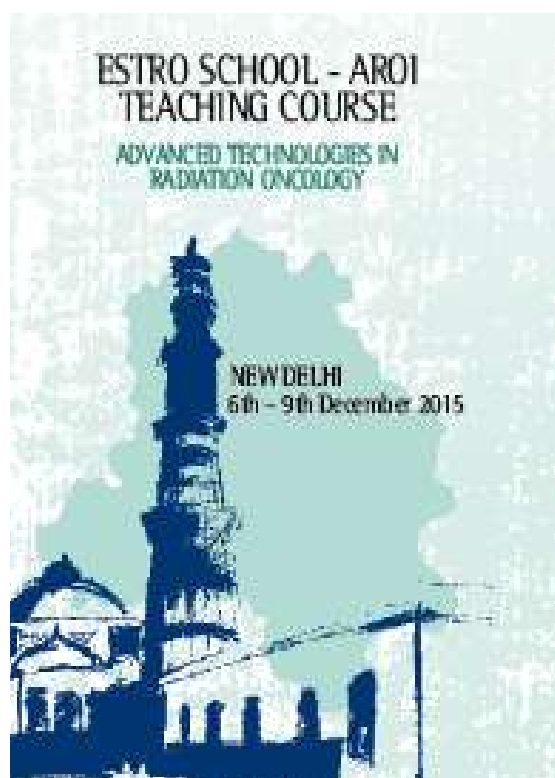
Assistant Professor, Dept. of Radiotherapy
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Seminar at SAIMS, Indore



Department of Radiotherapy conducted a CME on Advances of Medical Physics in Diagnosis and Therapy on 12th September 2015 on behalf of AMPI-NC. About 125 delegates from

all over North India attended the CME. The deliberations were highly interactive and informative mainly for the PG students. At the end there was a medical physics QUIZ Competition for the Radiotherapy post Graduates in which 6 teams from different medical colleges took part. The winner was the team lead by Dr Abhinav and Dr Manika from SAIMS, Indore. They were given Silver Coins and Certificates as Gift. Dr Virendra Bhandari was the Organising Chairman and Dr Om Prakash was the Organising Secretary for the CME.



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 Ms Meenakshi (Programme Coordinator, Radiation Oncology Max Cancer Centre)
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New Office Bearers of Zonal Chapters



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 MP & Gujarat Secretary



Response to last issue question

Do you think radiation oncologists need to focus on sub specialties in present era of disease specific management?

Yes, the era of Disease Management Groups, speciality wise has already made inroads. Today's era is of focused sub speciality groups for better care and focused research.

Question of this issue

Recurrence in Infield cases in IMRT era, are we missing somewhere?

Please send your reply for publication in