

*Report on  
Training Programs & Workshop for Preparedness and Medical  
Management for Radiological Emergencies organized for Non DAE  
Doctors, Non DAE Para Medics, and Doctors of Sarojini Naidu  
Medical College, Agra*

Occupational Health center of Narora Atomic Power Station Hospital in association with Public Awareness and Outreach activities committee of NAPS, had arranged three batches of two days' program on "Preparedness and Medical Management of Radiological emergencies" for –

- i) Non DAE Doctors serving with the state government
- ii) Doctors of Sarojini Naidu Medical College, [SNMC], Agra, and
- iii) Non DAE Para Medics serving with the state Government.

This was the Fourth year in succession, NAPS Hospital has organized such programs at Narora at Third Institutional program. The programs were successful in achieving its goal of Spreading awareness in people about the safety of Nuclear plants and their preparedness levels for mitigating the emergency. This program also was successful in capacity building amongst the various medical establishments around NAPS.

These programs were organized with support, encouragement and guidance from the chief patron of the program, our esteemed Station Director Shri. D.S.Choudhary, and Chief Superintendent Shri A.K.Dutta.

The programs for batches (i) and (iii) were conducted on Nov 3<sup>rd</sup>, 4<sup>th</sup> 2014; and Nov 5<sup>th</sup>, 6<sup>th</sup> 2014 respectively. They were arranged in the Conference hall of the Guest house located at the NAPS Guest house.

The program for the Doctors of SNMC, Agra was organized at the SNMC campus. It was organized on Oct 31<sup>st</sup>&Nov 1<sup>st</sup> 2014 and was conducted in the Conference Hall in the Guest House, SNMC Agra

The programs were organized with an aim of spreading the knowledge about the safety of Nuclear power plants and to appraise the Doctors & the paramedics, of the state government serving in the three districts adjoining the Narora Atomic Power Plant, and for the Doctors of SNMC Agra, about the preparedness and medical management of any nuclear or radiological emergencies as a capacity building measure.

The program for Doctors at Narora, was inaugurated by the Chief Guest Shri.A.K.Dutta, Chief Superintendent, NAPS., and for the para-medics was inaugurated by the Chief Guest Shri D.S.Choudhary, Station Director, NAPS. Declaring the meets open, the chief guest appraised the participants and the audience, regarding importance of enhancing the power generation in our country, the various options available and how the Nuclear options weighs favorably, the safety features in built in our plant designs, the precautions & safety measures observed during the operations & maintenance, and the preparedness for any eventualities, no matter how remote they may be. He also highlighted the

importance of such programs for Doctors & para medics, and how these programs are vital in preparedness.

The program at SNMC Agra was inaugurated by Chief Guest Prof. Dr. Ajay Agrawal, Principal, SNMC Agra and he emphasized the importance of such training programs and the need for many more for the doctors, as they need to be ready for any eventualities particularly after the incidence at Mayapuri.

The inauguration of all programs was carried out with Lighting of the Lamp by the chief guest and other dignitaries and members from participants.

The program for Non DAE Doctors was attended by total twenty Six doctors, which included senior consultants from District hospital Aligarh, District Hospital Bulandshahr, Chief Medical Superintendent of District hospital Aligarh, and from Jawaharlal Nehru Medical College, Aligarh. Doctors from Tata Chemicals Babrala and various PHCs/CHCs of Aligarh & Bulandshahr Districts.

The program for Doctors of SNMC Agra was attended by Fifty Two Doctors including the principal, SNMC Agra, Heads of various departments viz, Social and Preventive Medicine, Radiotherapy, Radiology and others.

The program for Non DAE Para Medics was attended by a total of Thirty Five para medics, working with state government and posted in various Primary Health Centers, Community Health Centers, and district hospitals of districts adjoining Narora, viz. Bulandshahr (Parent District), and Aligarh, and from Jawaharlal Nehru Medical College, Aligarh. Some para-medics from Tata Chemicals Ltd, Babrala, also attended the program.

The program included various lectures from Faculties – Medical, Health Physics, ESL and Planning.

For Narora programs delegates had field visits to (i) Personnel decontamination centre (PDC) of the NAPS hospital for hands on experience of Decontamination Techniques, (ii) visits to ESL Laboratory for demonstration of various monitoring processes, and (iii) visit to the Model room of STC for acquainting the participants with the operations of the nuclear plant.

For the SNMC Agra program, there was a Special Lecture on “Outreach Activities” carried out by NAPS. This was delivered by Shri Gaurav Sharma, Training Superintendent, NAPS and the Chairman of the Public awareness and outreach committee.

The Feedback from the participants from all three programs was very encouraging and satisfying. It was apparent from their feedbacks that the program was largely successful in meeting its intended objective. The programs were very interactive and the participants understood unambiguously, the *modus operandi* of a Nuclear Power Plant, their safety features, Preparedness in likelihood of emergencies, their own individual roles and responsibilities as stake holders in such events and were confident of delivering the medical management if needed.

The Lectures & Practical Demonstrations conducted were –

- 1) Introduction : Dr.Y.P.Singh. NAPS
- 2) Fundamentals of Radiation Protection : Shri Ashok Gupta, SHP, NAPS  
: Shri J Bahuguna SO/D HPU for SNMC, Agra program.
- 3) Health Effects of Ionizing Radiation : Dr.R.Deolalikar, Certifying Surgeon, NAPS
- 4) Radiation Injuries & Burns and its Medical Management : Dr. Hemant Haldavnekar, M.O.I/C Trombay Disp., BARC, Mumbai.
- 5) Acute Radiation Syndrome : Dr.R.Deolalikar.Certifying Surgeon, NAPS
- 6) Environmental Assessment : Shri. Y.P.Gautam, S.O./E, ESL, Manifestations & Management NAPS
- 7) Emergency Preparedness & Planning : Shri. Mukesh Gupta, STE(P), NAPS
- 8) Radiation Accidents – Learning from the past : Dr.Hemant Haldavnekar
- 9) Medical Management of Contamination : Dr.R.Deolalikar  
External & Internal Decontamination
- 10) Practical demonstration of Decontamination in PDC, NAPS Hospital : Dr.R.Deolalikar
- 11) Demonstrations Monitoring Techniques : Shri Y.P.Gautam *et al* At ESL
- 12) Model Room STC – Plant layout & : Shri K.C.Rakesh, SO/E, STC

The programs concluded with the Feedback and Valedictory Function, and distribution of Certificates by the chief guest at the Valedictory function.

The programs for doctors were accredited by the Medical Council of Uttar Pradesh for grant of EIGHT Credit Hours under the Continuing Medical Education Program, vide Ref No. UPMC/8973/14 dated 9<sup>th</sup> October, 2014.

The Occupational Health Center, NAPS Hospital had prepared a set of five Tables (i) Treatment for various Radionuclide, (ii) Treatment Flow Chart, (iii) External Decontamination Checklist, (iv) Internal Decontamination Check List, and (v) Clinical Dosimetry and Triaging which were printed in form of Chart of a size Three feet by Six Feet, on Flex material. These were distributed to participants of Each PHCs, CHCs, District Hospital and Tata Chemicals Ltd. These wall hanging charts will be of use as Ready Reckoner at a glance for the help pf the staff posted there. Five sets of these charts were also presented to the Principal, SNMC, Agra for display at vantage points in their hospital.

These programs were successfully arranged with help of all the concerned and Acknowledgments & sincere thanks to each one of them is as under.

Acknowledgements:

- Shri. D.S.Choudhary, Station Director, NAPS and Chief Patron
- Shri. A.K.Dutta, Chief Superintendent, NAPS

- Dr.Anil Norton, Medical Superintendent, NAPS, Chairman Organizing Committee.
- Registrar, Uttar Pradesh Medical Council, Lucknow.
- Prof.Dr.Ajay Agrawal, Principal, SNMC, Agra
- Shri Gaurav Sharma, Training Superintendent
- Prof. Dr S.K.Mishra, Head of Department of Social & Preventive Medicine [SPM], SNMC, Agra.
- Dr Renu Agrawal, Assoc. Prof. Dept of SPM, SNMC, Agra
- Dr.Hemant Haldavnekar, M.O. I/C OHC Trombay, BARC, Mumbai & Invited Guest Faculty
- Shri.N.S.Rana, STO, Member Organizing Committee
- Shri A.K.Bansal, DGM(F&A), NAPS
- Shri Ajai Kumar, AGM(HR), NAPS
- Dr. Y.P. Singh, M.O./G, NAPS – Member Organizing Team & Faculty
- Shri.Mukesh Gupta, STE(P) - NAPS & Member Organizing Committee –
- Shri. Sandeep Gupta, Sr.Manager F&A, NAPS, Member Organizing Committee
- Shri Ashok Gupta, SHP, NAPS, -Faculty & Member Organizing Committee
- Shri J.Bahuguna SO/D, HP, NAPS – Faculty for SNMC, Agra Program in place of Shri Ashok Gupta
- Shri Avinash Kumar, OIC, ESL & Member Organizing Committee
- Shrei Y.P.Gautam, SO/E, - Faculty – ESL
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- Shri.M.K.Tandon, Sr.Manager HR, NAPS & Member Organizing Committee
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- Shri. Khagesh C Rakesh, SO/E STC & Staff STC, NAPS – For Model Room demonstration to participants and for all the support help.
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- Shri. S.S.Adhikari, Dy.Manager – HR- NAPS & Co-opted Member Organizing Committee
- Smt Amrita Singh Dy Manager- Hr Hospitality & Member Organizing Committee
- Sister Baby Pauly, Sister Shanti Bala Aind, Sister V.Norton, Shri Ganesh, Shri Prem and all the Staff of NAPS Hospital
- Shri Harpal Singh Yadav, Photographer, TSU, NAPS
- Members of Press for covering the programs.
- All the Participants of Each Program
- All others directly or indirectly associated with these programs

Date: Nov 07, 2014.

Dr.R.Deolalikar  
 Certifying Surgeon  
 NAPS, Narora

## PHOTOGRAPHS OF THE SNMC AGRA PROGRAM

### A) INAUGURATION CEREMONY



Photo 1) Inaugural Ceremony SNMC Program: Dignitaries on Dias [From Lt to Rt] i) Dr Anil Norton, Medical Suptd. NAPS; ii) Guest of Honour Shri D.S.Choudhary, Station Director NAPS iii) Chief Guest Prof. Dr. Ajay Agrawal, Principal Sarojini Naidu Medical College, Agra iv) Prof. Dr S.K.Mishra, Head of the Department of Social and Preventive Medicine, SNMC, Agra v) Dr. A.K.Arya, Head of the Department of Radiotherapy



2) Inaugural Ceremony SNMC Program: Dr.Y.P. Singh, Anaesthesiologist , NAPS welcoming the Chief Guest Prof Dr Ajay Agrawal, Principal SNMC Agra



3) Inaugural Ceremony SNMC Program: Guest Faculty Dr.Hemant Haldavnekar welcoming the Guest of Honour Shri D.S.Choudhary, S.D., NAPS



4) Inaugural Ceremony SNMC Program: Dr.Anil Norton, Medical Superintendent NAPS Hospital, Delivering the welcome address.



5) Inaugural Ceremony SNMC Program: Guest of Honour – Shri DS Choudhary, SD, NAPS, addressing the delegates on the Importance of nuclear energy, safety of nuclear plants and importance of such training programs for capacity building.



6) Inaugural Ceremony SNMC Program: Prof. Dr.S.K.Mishra, Head of the department of Social and Preventive Medicine, SNMC, Agra Briefing the delegates on importance of the subject.



7) Inaugural Ceremony SNMC Program: Dr. A.K.Arya, Head of Department of Radiotherapy SNMC Agra and a dignitary on Dias Lighting the Lamp, with other dignitaries along side. In the back ground [Blue Shirt] Dr R.Deolalikar, Certifying Surgeon NAPS and the Organizing Secretary of the Training Programs.

### **B) Technical Sessions**



8) Dr.R.Deolalikar, Certifying Surgeon NAPS and Faculty delivering his presentation.





9) Dr.Hemant Haldavnekar, M.O. / G, M.O. I/c OHC Trombay, BARC Mumbai, and a Guest Faculty delivering his Presentation.



10) Section of Delegates in rapt attention. The Medical Charts for Decontamination on display in the background



11) Section of Delegates in rapt attention. The Medical Charts for Decontamination on display in the background



11) Shri Y.P. Gautam, SO/E, ESL, NAPS delivering his presentation. Dr.R.Deolalikar helping him with the slide show



12) Shri. J. Bahuguna, SO/D, HPU, NAPS Delivering his presentation, Dr.R.Deolalikar helping him with the slide show



13) Dr.Y.P.Singh, Anaesthesiologist, NAPS and Faculting delivering his presentation. Shri J.Bahuguna helping him with the slide show.



14) Shri Mukesh Gupta, STE(P) NAPS delivering his presentation. Dr.R.Deolalikar helping him with the slide show.



15) Shri Gaurav Sharma, Training Superintendent, NAPS delivering his presentation. Dr.R.Deolalikar helping him with the slide show.



16) Delegates interacting with the faculty.

### **C) Closing Ceremony**



17) Closing Ceremony SNMC: Dignitaries on the Dias:[From Lt to Rt] Dr.Anil Norton, Medical Superintendent, NAPS, Guest of Honour – Shri A.K.Dutta, Chief Superintendent, NAPS, Vacant Chair for Chief Guest .Prof Dr Ajay Agrawal, Principal, SNMC Agra who could not join the closing ceremony due to important meeting, Prof Dr. SK Mishra, Head SPM, SNMC, Agra, and Dr H.Haldavnekar Visiting Faculty.



18) Dr Anil Norton, Medical Superintendent NAPS Presenting one of the Five sets of Medical Charts for Decontamination to Prof. Dr.S.K.Mishra, Head Dept of SPM, SNMC Agra.



19) Closing Ceremony SNMC: One of the Delegates presenting her views during the participants' feedback during the closing ceremony



20) Closing Ceremony SNMC: Guest of Honour Shri A.K.Dutta, presenting the Certificate of Attendance and Eight CME Credit Hours to Prof Dr SK Mishra, Head SPM, SNMC. He distributed Certificates to all the delegates.



21) Closing Ceremony SNMC: Guest of Honour Shri AK Dutta, Chief Superintendent, NAPS addressing the delegates on the closing ceremony.