

# THE TRANSCENDENCE



Quarterly Newsletter of National Institute of Health and Family Welfare  
Vol. XII, No. 2, April-June, 2010

## It is Time to Focus on Hormonal Male Contraception

**W**orld's population currently exceeds 6.5 billion and is increasing by 75 million every year. In Indian scenario, it has exceeded 1.1 billion and further increasing at an alarming rate which justifies the programme of effective contraception for all eligible couples. Females bear the main burden of conception, childbirth, child rearing etc and coincidentally the present available methods of contraception are female centric. Relatively much lesser attention has been given to the male methods. As per NFHS III (2005-06) male participation in family planning is very limited. With a total contraceptive prevalence of about 56%, only 5% of the males use condoms and a little above 2% undergo sterilization by vasectomy, either conventional or no-scalpel. Such adverse gender inequality of participation in the family planning needs urgent corrective measures in the form of promotion of use of currently available male methods and secondly, development of new methods to widen the choices of the users as per the suitability.

Since ICPD Cairo (1994) and 4<sup>th</sup> World Conference on Women in Beijing (1995) emphasis is being given to improve male participation in family planning. More attention has been given for the development of new male contraceptives which would not only be efficacious but reversible too so as to cater greater acceptability among the masses. But unfortunately, despite years of research, not a single modern contraceptive drug currently exists for men, whose most effective choices are limited to two most conventional methods; condoms or vasectomy. Use of condom is a temporary method which was invented 300 years back but still in use. Male sterilization by vasectomy is another principal method since 1960s with high efficacy and low failures (1-2 failures/1000 procedures). But this too has side-effects and the procedure for reversal is not easy and requires microsurgery. In addition, successful microsurgery does not always lead to successful fertility reversal as sperm quality gets affected as a result of raised sperm antibody titers. All these shortcomings justify the

initiatives to develop new approaches for male contraception.

The physiological basis for development of potential male hormonal contraceptive is the inhibition of hypothalamic-pituitary function through gonadal feedback mechanism. This is mainly achieved either by counteracting GnRH (gonadotropin releasing hormone) activity leading to suppression of pituitary gonadotropins which disrupts spermatogenesis. Suppression of gonadotropins abrogates Leydig cell steroidogenesis and nullifying follicle stimulating hormone (FSH) simultaneously affects spermatogenesis. Selective suppression of FSH is not a viable approach to achieve azoospermia (no sperm in the ejaculate) as active or passive immunization against FSH produced only modest



suppression of spermatogenesis. Mutations in FSH receptor gene or in FSH beta knockout mice, spermatogenesis is only moderately impaired. Exogenously administered sex steroids are the most likely candidate for suppression of gonadotropins and spermatogenesis. Androgens alone or progestogens combined with androgens were indeed effective in suppressing spermatogenesis. The

efforts to develop male contraceptives using such hormonal approaches are ongoing since last four decades.

In earlier studies, suppression of pituitary gonadotropins was studied by using androgen and progesterone, either alone or in combination. Different androgens tried were testosterone propionate (TP), testosterone cypionate (TC), testosterone enanthate (TE) and mesterolone injections. The progestins tried were medroxyprogesterone acetate (MPA), depot MPA and danazol with limited success. However, a WHO Task Force Study (1990 & 1996) with Testosterone Enanthate (TE), 200 mg weekly injections, provided an important breakthrough. It produced azoospermia or very severe oligospermia (very few sperm in the ejaculate) in the study subjects and provided satisfactory contraceptive protection. But weekly injections

were not practical and not quite acceptable. Secondly, TE has very poor pharmacokinetic properties and produced side-effects. The residual sperm also retained fertility. Thus, the search for better androgens and progestogens continued and clinical trials with a host of new combination trials were reported. One such clinical study was undertaken at NIHFW in 1980s with cyproterone acetate and testosterone enanthate combination. This pioneering study demonstrated that the combination treatment was more effective than testosterone or cyproterone acetate given alone. Two decades later, two other groups from Italy and USA working together confirmed the same findings.

More recently, development of new androgens such as testosterone undecanoate (TU), testosterone buciclate (TB), 7-methyl-19-nortestosterone (MENT), testosterone pellets etc were reported. Androgens alone are considered as good alternatives because of the well documented safety of T in many years of clinical use in hypogonadal men. It is economical and acceptable since as a single agent it can achieve both gonadotropin, spermatogenesis suppression and maintain sexual function simultaneously. *Testosterone Enanthate* (TE) injection was in the form of contraception used 200 mg weekly as described earlier. It was tested in 10 centres in 7 countries involving 271 volunteers out of which 157 men became azoospermic, in the 12 months efficacy phase, one pregnancy occurred out of 1486 months of exposure. Efficacy was found to be comparable with female contraceptive. However, a substantial minority of men remained oligospermic despite suppression of gonadotropins to undetectable levels. The incidence of side-effects like acne (29.3%), weight gain, changes in sex drive and mood was low. HDL cholesterol and total cholesterol decreased by 18% and 6% respectively while haematocrit increased by 6%.

In a separate attempt, surgical implantation of *testosterone pellets* was tried subcutaneously. At 600 to 800 mg, relatively stable levels of hormone had been maintained for 4-76 months. Contraceptive efficacy was found to be similar to TE but with less side-effects. Similarly, TU at a dose of 1000 mg induced azoospermia in all the 12 subjects in China, while 11 out of 12 achieved the same even with 500 mg. A single dose of 1000 mg Testosterone Undecanoate (TU) has a half life of 33.9 days in hypogonadal men compared with 4.5 days for 250 mg of testosterone enanthate. Another long acting ester Testosterone Buciclate (T-17-trans-4-butyl-cyclohexylcarboxylate, TB) jointly developed by WHO and NICHD, USA and given 600-1000 mg in single dose injections maintained stable concentrations for 16-20 weeks. 1200 mg of TB induced azoospermia in 3 out of 8 eugonadal men with plasma testosterone within normal physiological range. MENT is four times more potent than testosterone in maintaining prostate and seminal vesicle weights. But 10 to 12 times more potent in suppressing gonadotropins. It is also 10 times more potent than testosterone in decreasing HDL and total cholesterol. It has the potential advantage of being used at a low dose (1/10 of testosterone) to suppress gonadotropins. Lower doses may also permit sufficient drug to be delivered by subdermal implants, skin patches or gels. Single injection of 2-8 mg of micronized MENT to healthy men suppressed gonadotropins without any side-effects. Subcutaneous implants 115 mg was found to maintain sexual behaviour and mood in hypogonadal men over a 6 weeks period.

Because of their anti-gonadotropic potency, a range of progestins were also tried for their effect to suppress spermatogenesis such as levonorgestrel (LNG), norethisterone enanthate (NETEN), desogestrel (DSG), dienogest (DNG), depot medroxyprogesterone acetate (DMPA) and cyproterone acetate (CPA). Similarly GnRH analogues, both agonists and antagonists, which effectively suppress secretion of LH and FSH were also tried in clinical trials. As low level of testosterone caused by suppression of LH would decrease libido and other androgen dependent parameters exogenous supplementation was felt necessary in all the above preparations.

*Combined hormonal male contraceptive-* Androgen related side-effects due to supraphysiological testosterone levels are natural with androgen only regimens. There is increased risk of benign prostatic hyperplasia, prostatic carcinoma and cardiovascular disease in later years with behavioural disturbances. Increase in intra-testicular testosterone levels, progestin as main antigonadotropic agent and testosterone replacement in lower doses is recommended to suppress gonadotropins, sperm production and to sustain libido. Obviously, this would require testosterone supplementation which will have additive effects on gonadotropin suppression thus augmenting contraceptive efficacy. From different studies it became clear that combinations were more effective than either of the drug given alone. The use of suboptimal doses of each of testosterone and progestin may be good enough that would decrease the side-effects due to individual hormone. The results of combination therapy were encouraging. *DMPA + TE* at 200 or 100 mg and TE at 250 or 100 mg at monthly intervals for four months was found to suppress spermatogenesis in 19 out of 20 Indonesian men. Another progestin DMPA combined with MENT (3 weekly) or TE (weekly) was found to be effective to induce azoospermia in 97% of the subjects after 6 months. *Levonorgestrel + TE* when given oral levonorgestrel (500µg)/day + TE 100 mg/week induced azoospermia in 12 out of 18 men. Reducing the dose of levonorgestrel to 250 or 125 µg produced similar results. Oral desogestrel 150-300 µg + TE 50-100 mg/week induced azoospermia in 18 of 24 men. But it decreased HDL-cholesterol indicating that 19 NT derived progestogens can also affect lipid metabolism in these men independent of testosterone. Cyproterone Acetate + TE are synthetic steroids with both progestogenic and anti-androgenic properties. It is used for hirsutism and prostate cancer. 12.5-100 mg of cyproterone acetate + TE daily induced azoospermia in all the subjects. More clinical trials are needed for dose standardization of different combinations and to determine the efficacy of each combination. Long acting depo preparations of GnRH agonists with testosterone have been explored for contraceptive efficacy in many clinical studies. Azoospermia was induced in only 23% of the subjects. The modest efficacy is further blunted by simultaneous administration of T. Inadequate doses of agonists, cost and persistence of FSH are some of the reasons for its discontinuation as a potential contraceptive. GnRH antagonists compete for GnRH receptors along with native GnRH with slower dissociation rate and induced rapid suppression of gonadotropins. These along with simultaneous or delayed introduction of T replacement induced azoospermia within 6-8 weeks. Local histamine reaction has been reported with some antagonists. The

disadvantages with this hormone are its low half life and daily injection which are not practical, more expensive and therefore shelved as a potential contraceptive for future studies.

There are some recent reports of clinical trials with new doses of androgens and progestogens. In China, TU alone in tea seed oil preparation at 500 mg/month and 1000 mg/month has produced azoospermia by 16 weeks in 12 out of 13 and 12 out of 12 volunteers respectively. Same drug with castor oil preparations was able to induce azoospermia in 7 out of 14 Caucasian men. As the Chinese study was more promising it is being followed up as phase III clinical trial. In another study, desogestrel (DSG) Plus TE at the dose of 300 µg daily and 50 mg per week respectively was found to induce azoospermia in 100% of the included subjects. Levonorgestrel (LNG) Plus TE at the dose of 500/250 µg daily and 100 mg/week respectively suppressed sperm production in 60-70% of the volunteers and severe oligospermia in 94% of the subjects. Testosterone Pellets plus DMPA has produced azoospermia in 9 out of 10 and severe oligozoospermia in 10 out of 10

Australian subjects. NETEN+TU at the dose level of 200 mg and 1000 mg achieved azoospermia in 13 out of 14 men. The clinical trial with NETEN + TU combination is presently under trial at NIHFW under the auspices of WHO and CONRAD.

The above studies indicate that the progestins are better preferred for effective suppression of gonadotropins because of their potent anti-gonadotropic property. In addition, they possess mild anti-androgenic property which is better suited to counteract the high intra-testicular testosterone leading to a faster decline in sperm production. It has also come to light that in combinations of progestins and androgens, the biological or pharmacological actions of P/T should not be in favour of androgen as it may prevent complete neutralization of effects of intra-testicular testosterone. The efforts as described above raises the hope that a method of hormonal male contraception is on the offing and we are at the threshold of an important breakthrough.

*(By Dr. Kiran Rangari, Research Officer and Prof. Deoki Nandan, Director, NIHFW, New Delhi)*

## Meetings

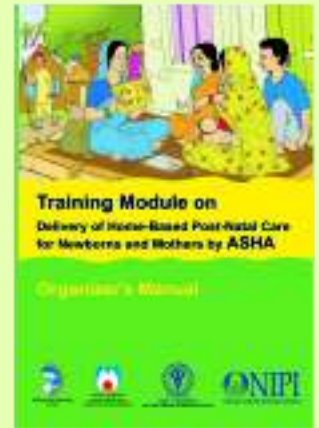
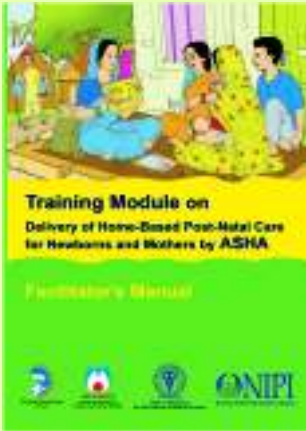
- \* Meeting of the National Task Force (NTF) PPD was held at NIHFW to discuss the roles and responsibilities of member institutions of NTF, India, PPD on 15 April 2010. 15 officials attended the meeting.
- \* A Consultation Meeting on State Child Health Resource Centres of Bihar, Madhya Pradesh, Rajasthan and Orissa was organized at NIHFW on 24 June 2010. State Child Health Resource Centres (SCHRCs) are being established in these states with financial support from Norway-India Partnership Initiative (NIPI). The objective of the meeting was to understand the roles and deliverables of SCHRCs and the facilitation required by different stakeholders to make these resource centres hub of child health information at the state level.
- \* A meeting of the Regional Consultation on Proposed National Council for Human Resources in Health was organized by the Ministry of Health and Family Welfare, under the Chairpersonship of Ms. Sujatha Rao, IAS, Secretary (H&FW), on 17 June 2010 at NIHFW.
- \* The NLEP- Review Meeting of State Leprosy Officers was organised by the MOHFW, at NIHFW, on 17 June 2010. 28 officials from various states and UTs attended the meeting.
- \* Meeting of the Sub-Group on Health Promotion was held at NIHFW to review the course contents of Health Promotion during 28 June-2 July 2010.



# National Child Health Resource Centre (NCHRC)

The digital repository on child health information and related maternal health information has been completed and now available on the public domain <http://202.71.128.172/nihfw/nchrc/>. Some of its key features include free access to all the

users, collection of 400 resource materials/documents relevant from the public health perspective in India, categorization of all information into specific topics and themes, development of a thesaurus for a standardized vocabulary of keywords, and abstract/keywords/source/year of publication given for each information/resource materials along with the photograph of the cover page. NCHRC has brought out a training module (Facilitator's Manual and Organizer's Manual) on 'Delivery of Home-Based Post-Natal Care (HBPNC) for Newborns and Mothers by ASHA' to improve the quality of trainings under HBPNC and enhance the capacity of ASHAs related to their tasks of care for mother and newborn at home.



*The TU+NetEn Newsletter, in its May 2010 issue, has mentioned about the progress of the Electronic Case Report Form Training for the Study Team for the WHO-CONARD Project by NIHFW. The newsletter is jointly brought out by the World Health Organisation, CONARD and Global Research.*

*The training team consists of Prof. Deoki Nandan, Principal Investigator; Prof. Manmohan Misro, Co-Investigator; Prof. Tulsidas Shrivastav, Sub-Investigator; Dr. Devbrata Sinha, Sub-Investigator; Dr. Gyan Singh, Sub-Investigator and Dr. Geetanjaly Singh, Sub-Investigator.*

## Visitors to the Institute

The Institute had the privilege of receiving the following visitors during the quarter:

- \* Dr. Firdous Ashiq Avan, Minister for Population Welfare, Pakistan, visited on 20 April 2010.
- \* Ms. Riffat Masood, Dy. High Commissioner, Pakistan High Commission, New Delhi, visited on 20 April 2010.



Students from Vidyasagar University, Midnapore, West Bengal, visited during 5-9 April 2010.



*Dr. Firdous Ashiq Avan, Minister for Population Welfare, Pakistan, addressing the NIHFW faculty and staff (inset Dr. Firdous Ashik Avan).*



*M.Sc. students from Vidyasagar University, Midnapore, West Bengal, were briefed about Institute's activities in the auditorium.*

*The poster developed by Dr. K.S. Nair, Department of Planning and Evaluation, on "Improving ANC and Institutional Deliveries Experiences of Public-Private Partnership in National Capital Region of Delhi" was adjudged as one of the best posters in the Poster Display Section of the International Conference on Health Systems Strengthening, organized by Tamil Nadu Health Systems Project, Chennai, during 7-9 May 2010.*

## Training Courses/Workshops/Meetings

Sl. No.	Dates	Coordinator	Title	Objective	No. of Participants	State-wise
1.	29 March-5 June 2010	Prof. M. Bhattacharya	Professional Development Course in Management, Public Health and Health Sector Reforms for District Medical Officers	To enhance the professional management skills of DMOs about health sector reforms.	23	Haryana-18, Delhi-4 and Uttarakhand-1
2.	5-8 April 2010	Dr. Poonam Khattar	Training Course on Management of Lifestyle Disorders	To manage lifestyle disorders among people.	14	Rajasthan-2, Chandigarh-2, Karnataka-1, Haryana-2, Bihar-1, Gujarat-2, Meghalaya-1, Punjab-1, J&K-1 and Jharkhand-1
3.	5-10 April 2010	Prof. M. Bhattacharya	Training Course on GIS in Health Management	To orient the participants on geographical information system.	20	Madhya Pradesh-2, Nagaland-1, New Delhi-1, Gujarat-1, Meghalaya-6, Maharashtra-5 and Karnataka-4
4.	12-14 April 2010	Prof. M. Bhattacharya and Dr. P. Deepak	Training of Trainers for Training Medical Officers in Immunisation	To provide the qualitative and quantitative research techniques in HSR.	11	Uttar Pradesh-11
5.	17-21 April 2010	Dr. Sanjay Gupta	2nd Round Contact Programme for One-Year PG Certificate Course in Health and Family Welfare Management through Distance Learning		102	Andhra Pradesh-1, Assam-1, Bihar-3, Chhattisgarh-1, Delhi-18, Goa-1, Gujarat-7, Haryana-4, Himachal Pradesh-1, J&K-1, Karnataka-3, Kerala-1, Madhya Pradesh-6, Maharashtra-5, Manipur-1, Orissa-8, Rajasthan-14, Sikkim-3, Tamil Nadu-1, Uttar Pradesh-12, Uttarakhand-4 and West Bengal-6
6.	24-28 April 2010 (Delhi)' 3-7 May 2010 (Hyderabad) and 17-21 May 2010 (Kolkata)	Prof. S.V. Adhish and Prof. Neera Dhar Dr. P.L. Joshi and Dr. K.T. Reddy Prof. J.K. Das and Dr. S. Bagchi	2nd Round Contact Programme for One-Year PG Certificate Course in Hospital Management through Distance Learning		236 18 21	Andhra Pradesh-10, Army-1, Bihar-4, Chhattisgarh-3, Delhi-88, Gujarat-12, Haryana-18, Himachal Pradesh-6, J&K-1, Jharkhand-5, Karnataka-7, Madhya Pradesh-13, Maharashtra-3, Meghalaya-2, Orissa-8, Punjab-11, Rajasthan-22, Uttar Pradesh-45, U.T.-3, Uttarakhand-4 and West Bengal-9
7.	26-30 April 2010 (Tentative)	Dr. Sanjay Gupta and Dr. K.S. Nair	Training Course on Public-Private Partnership in Health Sector (NIHFW-World Bank/USAID collaboration)	To train the participants about PPP in health sector.	27	Andhra Pradesh-2, Chhattisgarh-3, Jharkhand-3, Odisha-2, Rajasthan-4, Uttar Pradesh-1, Uttarakhand-4, West Bengal-3, USAID-3 and NIHFW-2
8.	26-28 April 2010	Prof. M. Bhattacharya and Dr. P. Deepak	Training of Trainers for Medical Officers in Immunisation	To train the master trainers regarding various aspects of immunization.	16	Uttar Pradesh-11, Goa-2, Daman and Diu-2 and Rajasthan-1

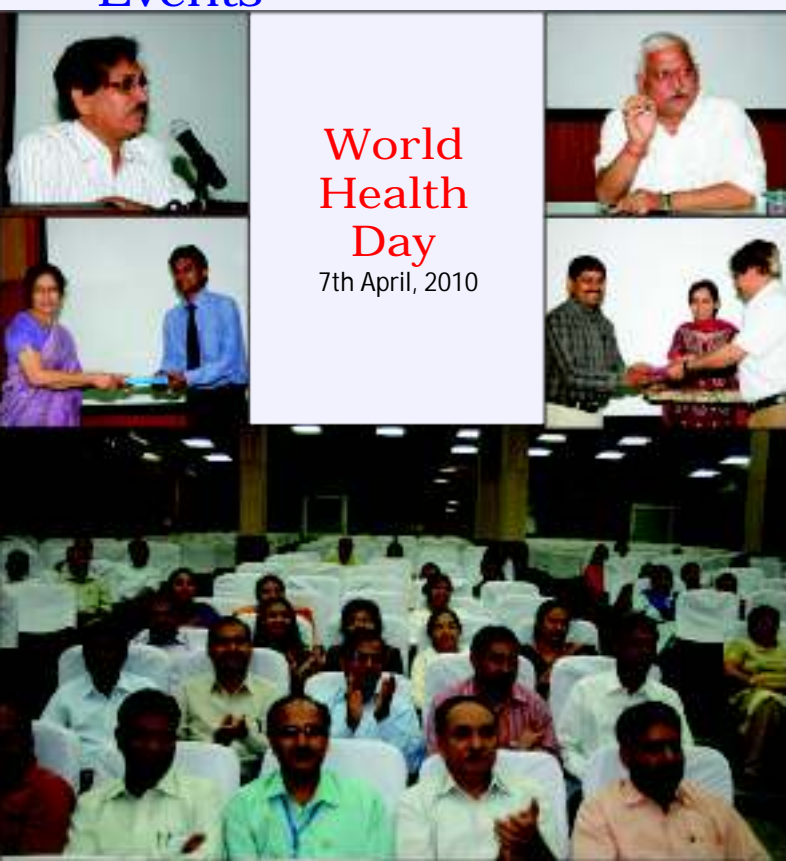


9.	3-21 May 2010 (10 batches)	Prof. V.K. Tiwari	Workshop on Data Quality for HMIS	To discuss the quality of data for better health management information system	233	A&N Islands-1, Andhra Pradesh-8, Arunachal Pradesh-2, Assam-7, Bihar-7, Chandigarh-9, Chhattisgarh-3, Dadra & Nagar Haveli-2, Daman & Diu-2, Delhi-58, Goa-2, Gujarat-8, Haryana-4, Himachal Pradesh-6, J&K-6, Jharkhand-2, Karnataka-15, Kerala-7, Madhya Pradesh-9, Maharashtra-8, Manipur-7, Meghalaya-5, Nagaland-1, Odisha-12, Puducherry-2, Punjab-2, Rajasthan-10, Sikkim-2, Tamil Nadu-10, Tripura-2, Uttar Pradesh-8, Uttarakhand-2 and West Bengal-4
10.	6-7 May 2010	Dr. P. Khattar	National Workshop on School Health Programme	To discuss the state of affairs of school health programme in the country.	125	
11.	14 May 2010	Prof. U. Datta	Dissemination Workshop for Performance Assessment of Health Workers Training	To assess the output of training for health workers.	40	Jharkhand-2, Odisha-3, Uttar Pradesh-2, Bihar-1, Madhya Pradesh-3, Uttarakhand-1, Rajasthan-2, UNICEF-4, WHO-NPSP-10, WHO-SEARO-2, USAID-2, NIPI-1 and NIHF-7
12.	21 May 2010	Dr. Poonam Khattar and Prof. Neera Dhar	Workshop on Certificate Course in Health Promotion	To discuss the issues concerning the curriculum of the course on health promotion.	33	Uttar Pradesh-2, Madhya Pradesh-1, Gujarat-1, Delhi-11 and NIHF-18
13.	24-29 May 2010	Prof. V.K. Tiwari	Workshop on Epidemiological and Bio-Statistical Methods Using Software	To train the participants on the use of software in epidemiological and statistical methods.	19	J&K-1, Haryana-1, Sikkim-1, Delhi-9, Uttar Pradesh-1, Himachal Pradesh-2, West Bengal-2, Maharashtra-1 and Madhya Pradesh-1.
14.	24 May-3 June 2010 (9 batches)	Prof. Neera Dhar and Dr. Sanjay Gupta	Training Course for Re-orientation of Medical Officers in Basic Essential Obstetric Care (BEMOC)	To reorient the MOs to BEMOC.	249	Rajasthan-45, Bihar-29, Odisha-51, Madhya Pradesh-30, Jharkhand-13, Chhattisgarh-6, Uttar Pradesh-48, Delhi-4, Tamil Nadu-3, UNICEF-2, Liverpool School of Tropical Medicine-7, NIHF-8 and Observers-3
15.	7-11 June 2010	Prof. M. Bhattacharya	Training Course on Scientific Writing	To orient the participants to the techniques of scientific writing of research papers and reports.	18	Delhi-15, Rajasthan-2 and Uttar Pradesh-1

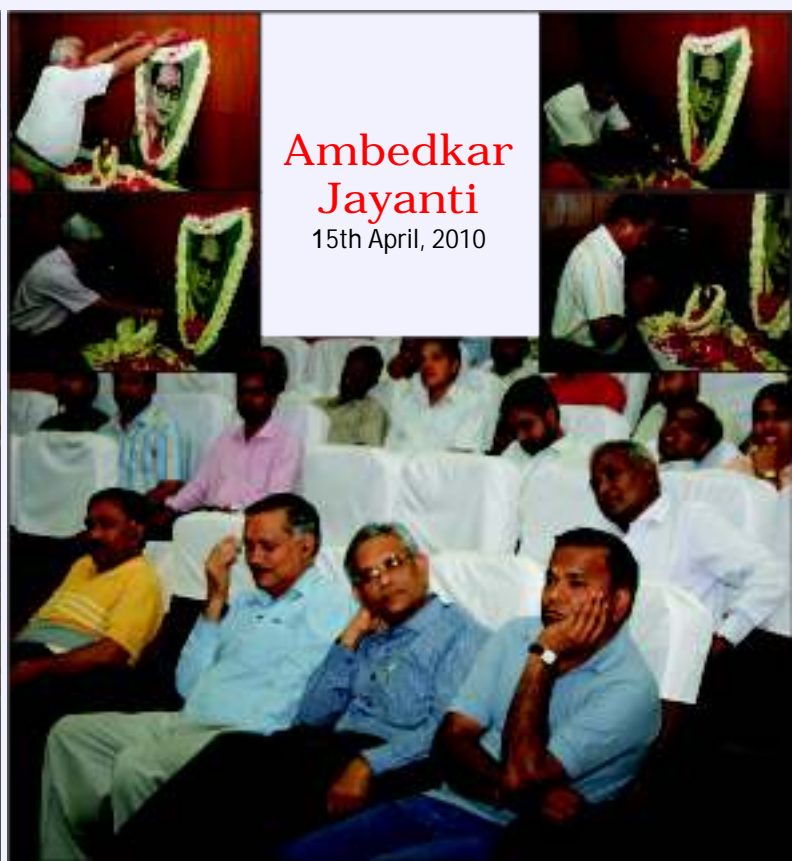


16.	9 June 2010	Prof. M. Bhattacharya and Dr. P. Deepak	Orientation Training of SEPIOs on Handbook for Vaccine and Cold Chain Handlers	To orient the participants to handle vaccines and cold chains.	42	Himachal Pradesh-1, Puducherry-1, Rajasthan-1, J&K-1, Tripura-1, Goa-1, Meghalaya-2, Odisha-2, Bihar-2, Uttar Pradesh-2, Jharkhand-1, Assam-1, Chandigarh-2, Karnataka-1, Tamil Nadu-1, Punjab-2, New Delhi-6, Madhya Pradesh-1, Sikkim-1, Maharashtra-1, Uttarakhand-1, Andhra Pradesh-1, Gujarat-1, Chhattishgarh-1, Mizoram-1, Kerala-1, A&N Islands-1, West Bengal-2, Haryana-1 and New York-1.
17.	22-26 June 2010	Prof. M. Bhattacharya	Capacity Building Workshop on Operational Research on Prevention, Care and Treatment of HIV/AIDS (Conducted by NACO in Collaboration with NIHFV and WHO)	To build capacity on operational research about HIV/AIDS	19	West Bengal-1, Uttar Pradesh-2, Tamil Nadu-2, Andhra Pradesh-4, Delhi-2, Maharashtra-1, Karnataka-4 and Gujarat-3.
18.	23 June 2010	Prof. M. Bhattacharya and Dr. P. Deepak	Orientation of National Core Group Trainers to Vaccine and Cold Chain Handlers	To orient the national level trainers about the various aspects of training methodology of training vaccine and cold chain handlers.	11	WHO-NPSP-3, PATH-1, NIPI-1, MCHIP-1, MOHFW-1, UNICEF-1 and NIHFV-3
19.	24-25 June and 26-27 June 2010	Prof. M. Bhattacharya	Annual Sentinel Surveillance for HIV Infection 2010 Pre-Surveillance Orientation and Planning Workshop for RIs and Officer-in-Charge of Surveillance	Orientation of officers in-charge of surveillance on HIV infection.	45	Puducherry-1, Bihar-1, Tamil Nadu-4, Kerala-1, J&K-1, Uttar Pradesh-1, Andhra Pradesh-2, Odisha-3, Karnataka-2, UNAIDS-2, AIIMS-2, WHO-1, NACO-5, Uttarakhand-1, NIHFV-6, NIMS-4, Chandigarh-3, Himachal Pradesh-1, FAI-1, Haryana-1, PSACS-1 and DSACS-1.
20.	28-29 June 2010	Prof. M. Bhattacharya and Dr. P. Deepak	Training of National Master Trainers of Vaccine and Cold Chain Handlers	To train master trainers about vaccine and cold chain handling.	18	Karnataka-3, Maharashtra-5, Odisha-4, Gujarat-1 and NIHFV-5

## Events



**World Health Day**  
7th April, 2010



**Ambedkar Jayanti**  
15th April, 2010

## Activities of the Director

All the activities (training courses, workshops, meetings, etc.) organized in the Institute were held under the guidance and supervision of Prof. Deoki Nandan. In addition to his involvement in the activities of the Institute; being an expert in the field of public health, he took part in the following meetings/discussions/workshops, etc.:

- Attended the 5th Governing Board meeting of the NHSRC at Nirman Bhavan on 6 April, 2010.
- Attended the workshop on Empowering Elderly for Active and Productive Ageing: Sensitization, Awareness Generation and Capacity Building of Stakeholders, organized by the Department of Social Welfare, Government of NCT of Delhi in collaboration with Anugrah, held at Purv Sanskritik Kendra, Laxmi Nagar, Delhi on 16 April, 2010.
- Acted as a resource person in the workshop on Research Methodology, organised by Dr. R.P. Government Medical College, Kangra, Tanda, Himachal Pradesh, during 10-11 April, 2010.
- Attended an International Conference on Empowering Women in Developing Countries through Better Healthcare and Nutrition, held at BITS, Pilani (Rajasthan) during 22-24 April, 2010.
- Organised and conducted the Training Course on Public-Private Partnership in Health Sector, jointly organised by NIHFW, World Bank Institute, USAID and DFID at Nainital, Uttarakhand, during 26-30 April, 2010.
- Attended the State Strategy Planning Workshop organised by the State Institute of Health and Family Welfare, Jaipur, during 30 April-2 May, 2010.
- Attended the first meeting of the Project Advisory Committee meeting for the project- To Improve Awareness of Emergency Contraceptive Pills through Reorientation Training of Health Care Providers at Peripheral Levels and Its Evolution: All Districts of Uttar Pradesh, held at ICMR, New Delhi, on 3 May, 2010.
- Attended the National Consultation on Repositioning Family Planning for Maternal and Child Health in Addition to Population Stabilization, at Vigyan Bhavan, New Delhi, on 5 May, 2010.
- Acted as an external expert for the Viva-Voce examination of Ph.D. examination at CSM Medical University, Lucknow, Uttar Pradesh, on 8 May, 2010.
- Attended the National Consultation Workshop on Patient Safety at SGPGI, Lucknow, Uttar Pradesh, on 10 May, 2010.
- Attended the 9th meeting of the Programme Management Group (PMG) of Norway-India Partnership Initiative (NIPI), at MOHFW, New Delhi, on 12 May, 2010.
- Attended the Project Advisory Committee (PAC) set-up for the Research Mentorship Programme (RMP) of ICMR, at ICMR Headquarter, on 13 May, 2010.
- Attended the expert group meeting on issues related with SAM Children in the Country, at the Directorate of Health Services, MOHFW, New Delhi, on 13 May, 2010.
- Organised a Dissemination Workshop on National Polio Surveillance Project, at NIHFW, in collaboration with WHO, on 14 May, 2010.
- Attended the Advisory-cum-Expert Committee meeting for Master Degree Programme of Indira Gandhi National Open University (IGNOU) at IGNOU, New Delhi, on 15 May, 2010.
- Attended the meeting to discuss and finalise opinion on Draft Agreement between India and Syria on Cooperation in the Field of Health, held at DGHS, New Delhi, on 17 May, 2010.
- Addressed the District Community Mobilizers and Health Information and Education Officers of thirty-eight districts of central and western Uttar Pradesh in a Workshop on BCC Strategy at Agra, Uttar Pradesh, on 25 May, 2010.
- Conducted viva-voce examination for Ph.D. Degree in Bio-Medical Sciences titled- Study of Illness and Health Seeking Behaviour of Rural Women with Gender Sensitive Participatory Research, at Dr. Bhimrao Ambedkar University, Agra, Uttar Pradesh, on 28 May, 2010.
- Attended the meeting of Scheme for Promotion of Menstrual Hygiene under the chairpersonship of Secretary (H&FW) at Nirman Bhavan, New Delhi, on 1 June, 2010.
- Attended a meeting under the chairpersonship of the Secretary (H&FW) regarding ANM-ASHA training for Home-based Care Plus SBA- NIHFW as Nodal Institute for Extension on 1 June, 2010.
- Attended a consultation meeting on Training Manuals for Doctors and School Health Programme Under National Tobacco Control Programme (NTCP) conducted by the Ministry of Health and Family Welfare, at NIHFW, on 7 June, 2010.
- Attended a meeting convened by the Secretary (H&FW) with Ms. Julie McLaughlin, Sector Manager, World Bank, at MOHFW, New Delhi, on 8 June, 2010.
- Organised a workshop on Strengthening Family Planning Service Delivery System and Future Directions for Priority States, at NIHFW in collaboration with USAID on 9 June, 2010.
- Attended a meeting with the Secretary (H&FW) regarding the review of training under NRHM, at MOHFW, New Delhi, on 14 June, 2010.
- Attended a meeting on Regional Consultation on the Proposed National Council for Human Resources in Health, organised by MOHFW at NIHFW, on 17 June, 2010.



*Prof. Deoki Nandan, Director, addressing the 37th National Annual Conference of Indian Association of Preventive and Social Medicine*

- Attended the NLEP meeting of State Leprosy Officers, organised by MOHFW at NIHFW on 17 June, 2010.
- Attended a meeting to discuss the proposal of AIH&PH, Kolkata, for the creation of 31 posts for its second campus, held at DGHS, New Delhi, on 18 June, 2010.
- Attended the selection committee meeting for the recruitment of Secretary in the Office of Indian Nursing Council, New Delhi, on 18 June, 2010.
- Attended the TOT on Annual Health Survey, organised by the RGI Office, at NIHFW on 18 June, 2010.
- Attended a meeting of the consortium of institutions who are implementing the Bill & Melinda Gates Foundation funded project- Synthetic Analysis of HIV Prevention Programme Impact, held at Mumbai, on 19 June, 2010.
- Attended a meeting on the Introduction of Pentavalent Vaccine, held at DGHS, New Delhi, on 23 June, 2010.
- Served as an external examiner for the Ph.D. viva-voce in the Department of Community Ophthalmology at the All India Institute of Medical Sciences, New Delhi, on 24 June, 2010.

## Activities of the Faculty and Staff

Prof. M. Bhattacharya, Head, Department of Community Health Administration

- Attended the sub-group meeting to decide the Technical Basis of the Present Pulse Polio Programme after analysis of various data generated by the Programme Division till date at the National Centre for Disease Control, New Delhi, on 5 April, 2010.
- Attended the Task Force Training at Nirman Bhavan, New Delhi, on 17 April, 2010.
- Attended the Estimation Working Group Meeting regarding Each State Estimation and Projection Using EPP and Spectrum, held at NIMS, New Delhi, on 21 April, 2010.
- Attended the Workshop on MNCHN organized by MCH STAR at New Delhi, during 28-30 April, 2010.
- Conducted practical examination for MD in Community Medicine and MPH PGs at PGI, Chandigarh, during 1-3 May, 2010.
- Attended a meeting on National Consultation on Repositioning Family Planning for Maternal and Child Health in Addition to Population Stabilization at Vigyan Bhavan, New Delhi, on 5 May, 2010.
- Attended the Estimation Working Group Meeting regarding Modified State-Specific EPP Files Using 2008-'09 HIV Sentinel Surveillance (HSS) Data, at NIMS, New Delhi, on 6 May, 2010.
- Organized the 2nd Capacity Building Workshop on Epidemiological Profiling of HIV/AIDS Situation at District/Sub-District of Jharkhand Using Data Triangulation (Phase- II) at Ranchi, Jharkhand, during 14–15 May, 2010.
- Attended the Second State Level Workshop on Epidemiological Profiling of HIV/AIDS Situation at District and Sub-District Levels Using Data Triangulation (Phase-II) at CSMMU, Lucknow, Uttar Pradesh, on 2 June, 2010.
- Attended the Pre-Surveillance Meeting at NACO, New Delhi, on 16 June, 2010.
- Attended the Avahan Evaluation Advisory Group (EAG) meeting at Hotel Trident, Mumbai, during 17-19 June, 2010.
- Attended a meeting on National Sentinel Surveillance model for Vaccine-Preventable Childhood Infectious Diseases to Firm up a Feasible, Practical and Sustainable Sentinel Surveillance Model for Vaccine-Preventable Childhood Illnesses for Generating Actionable Data, at National Centre for Disease Control, New Delhi, on 28 June, 2010.

Prof. T. Mathiyazhagan, Head, Department of Communication

- Served as an expert member of IEC/BCC in the Evaluation Committee Meetings for Social Mobilisation and Service Delivery for Malaria Control and Kala-azar Elimination under the World Bank Project, organised by the Directorate of National Vector Borne Disease Control Programme, Directorate General of Health Services, MOHFW, New Delhi, on 5, 6 and 21 May, 2010.
- Served as a Paper Setter for two subjects viz. Self-Development and Advertisement through Print, Radio and Television for Under-Graduate Courses of Guru Gobind Singh Indraprastha University, New Delhi.
- Submitted the draft report on An Impact Assessment on IEC Campaign on Deafness Programme to the Directorate General of Health Services, MOHFW, Government of India.

Prof. J.K. Das, Head, Department of Epidemiology

- As an expert, attended the meeting of the Task Force of FICCI Health Committee on Draft National Health Bill 2008, held at FICCI House, New Delhi, on 12 April, 2010.
- Attended the Task Force Meeting on Revision of IPHS at Nirman Bhawan, New Delhi, on 17 April, 2010.
- As a guest speaker, took a session on Health Issue on Food and Water Related Diseases in Drought Situation, at Haryana Institute of Public Administration on 22 April, 2010.
- As a resource faculty, attended the Public-Private Partnership Course, held at Nainital, Uttarakhand, during 29-30 April, 2010.
- As an expert member, attended the meeting to review the Revised IPHS at NCDC, New Delhi during 5-6 May, 2010.
- Attended the National Conference on Medical Response to Mass Casualty Management 2010, held at DRDO, New Delhi, during 5-6 May, 2010.
- Coordinated and took sessions in the training course on Hospital Management for Medical Officers of BSF, at Tigri, New Delhi, during 14-18 June, 2010.

Prof. Rajni Bagga, Acting Head, Department of Management Sciences

- Attended the workshop on Leadership to Improve MNCHN, organized by MCH Star, at Faridabad, during 28-30 April, 2010.

Dr. Meerambika Mahapatro, Reader, Department of Social Sciences

- Attended the workshop on Leadership to Improve MNCHN, organized by MCH Star, at Faridabad, during 28-30 April, 2010.

Prof. V.K. Tiwari, Acting Head, Department of Planning and Evaluation

- As a resource person, took a session in the workshop on Research Methodology, organized by Dr. Rajendra Prasad Government Medical College, Tanda, Himachal Pradesh, in collaboration with ICMR and NIHF; during 12-14 April, 2010.

Dr. K.S. Nair, Lecturer, Department of Planning and Evaluation

- As a resource person, took a session in the workshop on Research Methodology, organized by Dr. Rajendra Prasad Government Medical College, Tanda, Himachal Pradesh, in collaboration with ICMR and NIHF; during 12-14 April, 2010.
- Attended the International Conference on Health System Strengthening at Chennai, during 6-10 May, 2010.

Dr. L. Lam Khan Piang, Lecturer, Department of Planning and Evaluation

- As a resource person, took a session in the workshop on Research Methodology, organized by Dr. Rajendra Prasad Government Medical College, Tanda, Himachal Pradesh, in collaboration with ICMR and NIHF; during 12-14 April, 2010.
- Attended the Dissemination Workshop on IBBA- NH, Round-II, organized by NIMS, ICMR, at India Habitat Centre, New Delhi, on 11 June, 2010.

Dr. Renu Shehrawat, Senior Lecturer, RBM Department

- Presented a paper- Insured Yet Vulnerable: Impoverishment due to out of Pocket payments for India's Poor at the International Conference on Health System Strengthening, held at Chennai, during 6-10 May, 2010. The paper has been awarded as one of the best papers in Poster Discussion category.

Dr. Rajesh Kumar, Lecturer, Department of RBM

- Attended a workshop on Scientific Writing at NIHF, organized by VMMC and NIHF, during 7-11 June 2010.
- Attended a DST sponsored two-week workshop on Science Administration and Research Management at the Administrative Staff College of India, Hyderabad, during 19-30 April, 2010.

Dr. Rajesh Khanna, Coordinator, NCHRC

- Presented a paper on 'What do ASHAs Tell Us about Home-Based Post-Natal Care of Mothers and Newborns?' in a seminar on Health Registries, organized at the Norwegian Institute of Public Health, Oslo, on 3 June, 2010.

Mr. Arvind Kumar, Hindi Officer and Mr. Ganesh Shankar Srivastav, Sub Editor (Hindi)

- Participated in a three-day Hindi Workshop on Official Language Management and Implementation, at Solan, Himachal Pradesh, during 28-30 April, 2010. The workshop was organized by the Rajbhasa Sansthan, New Delhi. Dhaarna, the Hindi magazine of the Institute was awarded in the workshop for its valuable information and quality printing.

Mr. Ashutosh, Assistant Librarian

- Attended a training programme in Managing Information in the Digital Age, organized by the Center for Science and Environment, New Delhi, during 6-9 April, 2010.

## Papers Published

- Bagga, Rajni; Shehrawat, Renu; Gade, Jyoti; Nandan, Deoki; Mavalankar, Dileep V.; Sharma, Bharat; and Raj T.P. Sherin (2010). Comparative Analysis of Nursing Management Capacity in the States of Uttar Pradesh, West Bengal and Tamil Nadu. Midwifery and Maternal Health in India: Situational Analysis and Lessons Learnt from the Field, *IIM, Ahmedabad and Swedish International Development Cooperation Agency, CMHS Monograph No.1*, pg. 31.
- Patro, Bishnu Charan (2010). Womb to Tomb: She is Killed before She is Born; *Shaswat Oorja- A Developmental Magazine*, Vol. 1(1), May, New Delhi.
- Bhattacharya M., Jaiswal, Vaishali and Joon Vinod (2010). Facilitating Panchayats towards Improvement in Environmental Health: Risks in a Rural Area of India; *Human and Ecological Risk Assessment*, Vol. 16 (2), April, 402-412.
- Mahapatro, M. and Kumar, A. (2009). Maternal Mortality among the Marginalised: A Case Study of a Scheduled Tribes of Orissa; *Indian Anthropologist* (Journal of the Indian Anthropological Association of India), 39 (1-2): 85-97.
- Lahariya Chandrakant, Khanna, Rajesh and Nandan, Deoki (2010). Primary Health Care and Child Survival in India; *Indian J. Pediatr.*, 77(3): 283-290.
- Khanna, Rajesh, Hota, Prasanna and Lahariya Chandrakant (2010). Health Research Strengthening and Operational Research Needs for Improving Child Survival in India; *Indian J Pediatr*, 77(3): 291-299.
- Kumar, Rajesh (2010). Common Food Additives Found in Foods in Markets of Dwarka, New Delhi; *Global Education Society and Development*, Vol.1 (No.4), Jan.-March.

## Forthcoming Training Courses/Workshops/Meetings

Sl. No.	Title	Coordinator(s)	No. of Courses	Expected Participants	Duration	Dates
1.	TOT for Training of Medical Officers in Basic Essential Obstetric Care	Prof. K. Kalaivani	9	Obstetricians, Paediatricians at state level, state RCH/MCH Programme Officers, faculty of SIHFW/CTI, nursing personnel at state level.	2 days	1-2, 8-9, 15-16, 22-23, 29-30 July; 5-6, 12-13, 19-20 and 26-27 Aug. 2010
2.	Training Course on Stress and Conflict Management	Prof. Neera Dhar	1	Faculty from medical colleges, SIHFWs, CTIs, nursing colleges, clinicians and health administrators.	5 days	12-16 July 2010
3.	Professional Development Course in Management, Public Health and Health Sector Reforms for District Medical Officers	Prof. M. Bhattacharya	1	Faculty from SIHFWs, Regional Health and Family Welfare Training Centres, medical colleges and middle level medical officers.	10 weeks	12 July-18 Sept. 2010
4.	Orientation Workshop for State Programme Officers and Faculty of SIHFWs/CTIs for Decentralised District-Specific PIP and Plan for Integrated Training	Prof. K. Kalaivani	1	Officials from State NRHM Directorate, Faculty of SIHFWs/CTIs	3 days	14-16 July 2010
5.	Training Course on Community Health Insurance Schemes	Prof. V.K. Tiwari and Dr. K.S. Nair	1	State health administrators, programme managers and faculty from medical colleges	5 days	19-23 July 2010
6.	Orientation Course on Administrative and Financial Skills for Faculty of Medical Colleges and Other Health Institutions	Dr. Rajesh Kumar	1	Faculty members, deans, sub-deans, researchers from medical colleges, SIHFWs and other health organizations	5 days	26-30 July 2010
7.	Training Course on Monitoring under NRHM/RCH	Prof. V.K. Tiwari and Dr. L. Lam Khan Piang	1	State NRHM/RCH coordinators, state demographers, RCH consultants, officials of PMU and faculty from SIHFWs.	5 days	2-6 Aug. 2010
8.	Training Course on Logistics and Supply Management System in Health and Family Welfare	Prof. J.K. Das	1	Officers dealing with stores/logistics and supplies in central, state and district level and in-charge of medical stores/depots at aforesaid level.	5 days	23-27 August 2010
9.	Workshop for Reorientation of Medical Officers in Basic Essential Obstetric Care	Prof. K. Kalaivani	2	Officials from Mission Directorates and faculty of SIHFWs/CTIs.	2 days	26-27 Aug. and 9-10 Sept. 2010
10.	Orientation Workshop for Consultants and Faculty of SIHFWs/CTIs and HFWTCS for Integrated Service Delivery under NRHM	Prof. K. Kalaivani	1	Faculty of SIHFWs/CTIs and HFWTCS	5 days	3-7 Sept. 2010
11.	Training Course on the Role of NGOs in NRHM in India	Prof. T. Bir	1	Officials of mother NGOs, field NGOs and PRC collaborative NGOs.	2 weeks	6-17 Sept. 2010
12.	Training Course on Hospital Administration for Senior Hospital Administrators	Prof. J.K. Das and Prof. S.V. Adhish	1	Senior medical professionals directly involved in hospital management.	3 weeks	6-24 Sept. 2010
13.	Training Course on Data Analysis Using SPSS for Health and Demographic Research	Dr. Pushpanjali Swain	1	Health professionals working in medical colleges, nursing colleges, demographers and social science researchers.	5 days	13-17 Sept. 2010

14.	Training Course on Human Resource for Health (NIHFW-WBI collaboration)	Prof. U. Datta and Prof. Rajni Bagga	1	Senior officers from the secretariat and directorate of UP, Orissa, Rajasthan, Bihar, Jharkhand, MP, Chhattisgarh, HP, Uttarakhand and West Bengal.	5 days	13-17 Sept. 2010
15.	Training Course on Increasing Human Capacity to Address Gender Equity in Health and Development	Dr. Poonam Khattar	1	Programme officers and other officers involved in planning and implementation of National Health Programmes, trainers of training institutes, officials engaged in data analysis and NGO personnel working in the health sector.	5 days	20-24 Sept. 2010
16.	Workshop on Advances in the Assessment of Semen Parametres and Detection of Sperm Pathologies in Infertile Subjects	Prof. M.M. Misro	1	Medical college faculty from the departments of gynaecology, surgery, physiology, biochemistry and anatomy.	5 days	20-24 Sept. 2010
17.	Capacity Building for Health Officials in Communication Skills under NRHM	Prof. T. Mathiyazhagan	1	State and district level information officers (IEC), trainers of training institutions (IEC) and NGO personnel working in the health sector.	6 days	20-25 Sept. 2010

## Swardhara

A musical programme named SWARDHARA is being organized at the auditorium of the Institute on 23 July, 2010. SWARDHARA will include Musical Game (Antakshari), Solo Songs (Hindi, Regional Language and English), Duets, Chorus, Ghazals, Jokes/Mimicry and Humorous Skit.

## News from Administration

### Appointment

- ★ Ms. Poonam Sharma is appointed as Technical Assistant (Lab.) on 27 April, 2010.

### Promotions

- ★ Mr. Swaroop Chand Rana has been promoted as Assistant on 4 May, 2010.
- ★ Mr. Jai Singh has been promoted as Addressographer on 26 May, 2010.
- ★ Mr. Ramesh Chandra has been promoted as Graining Machine Operator-cum-Platemaker on 26 May, 2010.
- ★ Mr. Sunil Kumar has been promoted as Feeder on 26 May, 2010.
- ★ Mr. Niranjana Kumar has been promoted as Driver, Grade-II on 25 April, 2010.

### Editorial Board

Editor-in-Chief: Prof. Deoki Nandan  
 Editor: Prof. T. Mathiyazhagan  
 Advisors: Prof. J.K. Das  
 Prof. Neera Dhar  
 Assistant Editors: Dr. K.S. Nair  
 Mr. J.P. Shivdasani  
 Dr. B.C. Patro  
 Mr. Ravi Tewari

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April-June 2010

### Retirements

- ★ Dr. Saroj Menon, Professor, D April, 2010.
- ★ Mrs. Reeta Dhingra, Research and Evaluation, retired on 30.
- ★ Mr. Cyril Anthony, Driver (retirement on 22 June, 2010.

