

National Conference on Prevention and Management of Non Communicable Diseases (8-9 January, 2016)

Organized by
Department of Home Science, The IIS University, Jaipur



Introducton

The growing burden of Non Communicable Diseases (NCDs) represents a significant threat to health, development and economic growth worldwide. NCDs include Heart Diseases, Stroke, Cancer, Diabetes and Chronic Lung Diseases. Hence a two day National conference on '**Prevention and Management of Non communicable Diseases**' was organised by The Department of Home Science, The IIS University on 8-9 January 2016. The conference was an effort to discuss the strategies for preventing and effectively managing non communicable diseases with following thrust areas -

- Deeper insight into the epidemiology of Non Communicable Diseases
- Risk factors and complications of non communicable diseases and related economic burden
- Multi sectorial Approach and Preventive strategies and innovations for better management of non communicable diseases
- Global and national initiatives for prevention and control of non communicable diseases as well as role

of International and National agencies and Non Governmental Organisations.

Day-1

INAUGURAL SESSION

The conference commenced at 10 am with inaugural session seeking the blessings of almighty in the form of *Saraswati Vandana*, followed by lighting of the lamp by all dignitaries on the dais. The conference was inaugurated by Dr. Vishwa Mohan Katoch, former Secretary, Department of Health Research, Government of India. Dr. Ashok Gupta, Vice-Chancellor, The IIS University, welcomed the resource persons, delegates and student participants. He gave an overview of The IIS University and its development.

Prof Pradeep Bhatnagar, Dean Faculty of Science acquainted the audience with aims and objectives of the conference. The Key Note Speaker, Dr Vishwa Mohan Katoch, emphasised on the transitional factors that are responsible for causing various non communicable diseases such as Diabetes, Cancer, etc. He briefed about

present status of NCDs in India and compared it with that existed at the time of independence. He cautioned the delegates that faulty dietary habits and physical inactivity are the two main risk factors leading to various NCDs. In earlier times, people used to take the same diet and remained healthy but now-a-days because of too much use of pesticides and fertilizers to increase the yield of agricultural products, use of contaminated water for irrigation, as well as frequent use of preservatives and other food additives have made people more susceptible to these NCDs. The inaugural session ended with a formal vote of thanks by conference convener Prof. Ila Joshi. The inaugural session was followed up by 4 technical sessions spread over two days chaired by luminaries from Academia, Medical professionals and Public health nutritionists.

TECHNICAL SESSION I

The first technical session focussed on 'Magnitude and Trends of Non Communicable Diseases'. This session was chaired by Dr Salome Benjamin, Medical Nutritionist, Tata Memorial Medical College and Hospital, Mumbai. The invited speakers of this session were Prof Meenakshi Bakshi Mehan, Prof. Sheel Sharma, Dr S K Sharma and Dr Virendra Singh.

- Prof Meenakshi Bakshi from MS University, Vadodara delivered a talk on the topic 'Burden of NCDs- Globally and in India'. She discussed the increasing trend of deaths due to NCDs. She also briefed the audience about several programmes functioning in India, for prevention of these chronic diseases and emphasised on the need for inclusion of nutrition component in these programmes and on the partnerships with NGOs and other agencies for promoting healthy dietary habits in the community.
- Prof Sheel Sharma from Banasthali University, Newai, Tonk gave a talk on 'NCDs: A threat booming large on Thrifty and Thin Fat Indians'. He reported 'Obesity' to be the main cause of non-communicable diseases among Indians. He updated that not only people with metabolic obesity but also low birth weight children are prone to these diseases. He also highlighted the *Ayurvedic* preventive protocols for chronic diseases, during gestational period, childhood and adolescence.
- Dr S K Sharma from Thyroid and Endocrine Centre, Jaipur shared recent advances in the field through his lecture on 'New Scenario in Management of Diabetes'. He started his talk with the history of Diabetes and included many researches on prevalence, etiology and complications of diabetes mellitus. He also explained the types of Diabetes and their management. He emphasized on need for

awareness about the disease among people, so that early treatment could be started and related complications are controlled.

- Dr Virendra Singh, Director, Asthma Bhawan, Jaipur delivered a talk on 'Basics of Chronic Obstructive Pulmonary Diseases (COPD)'. He presented data related to researches done on the COPD patients and tried to explain that air being the least expensive vital component of our life, becomes a major cause for COPD because of pollution. He has also discussed about the consequences of cigarette smoking and complications of COPD.

TECHNICAL SESSION II

Technical session II was chaired by Dr Kanika Varma, Associate Professor, Department of Home Science, University of Rajasthan, Jaipur. Dr Gurdeep Kaur and Dr Hemant Malhotra were the speakers in this session.

- Dr Gurdeep Kaur from All India Institute of Medical Sciences (AIIMS), New Delhi delivered her talk on 'Indian CKD diets: Myths and Reality'. She described the necessity of a good and balanced diet in chronic kidney disease and diet therapy based on biochemical parameters of individual patient. She discussed about the important role that a dietician plays in handling the renal diet, because decrease in one or two nutrients in such cases may sometimes lead to nutrient imbalance in concerned patient.
- Dr Hemant Malhotra from R. K. Birla Cancer Centre, SMS Medical College, Jaipur delivered his talk on 'Cancer- Today and Tomorrow'. He discussed the basics of cancer, its diagnosis and treatment through chemotherapy. He explained that the disease is curable, only if one is able to diagnose it at early stage and is provided with timely treatment. He updated audience on the latest statistics related to prevalence of cancer. He stated that approximately 500 per cent increase is expected in the number of the cancer patients by 2025, in which major contribution will be from developing countries. He emphasised that genes cannot be modified but surrounding environment can be made healthy. He ended his presentation cautioning audience for need to change the lifestyle and dietary habits.

Technical session II was proceeded by oral presentations of researchers and young scientists from different areas of Rajasthan and other parts of the country. Prof Sheel Sharma, Department of Home Science, Bansathali University was the chairperson for the session. There were ten oral presentations on this day.

The session concluded on a cup of tea.

DAY II ORAL PRESENTATIONS

Second day of the conference started with oral presentations by researchers and young scientists. Chairing of this session continued by Prof Sheel Sharma, Department of Home Science, Bansathali University. There were eleven oral presentations on this day.

TECHNICAL SESSION III

This session focused on Strategies for prevention and control of non communicable Diseases. Session was chaired by Prof Meenakshi Bakshi Mehan from M S University, Vadodara, Gujarat. The speakers of this session were Prof Aarti Sankhla, Dr Salome Benjamin, Dr Anil Agarwal and Dr Rajeev Gupta.

- Dr Aarti Sankhla, Dean, College of Home Science, Maharana Pratap University of Agriculture and Technology, Udaipur delivered her talk on 'NCD Menace: Preventive Measures'. She highlighted various threats to life and pointed out modern lifestyle as the biggest threat. She emphasized on lessening the effect of NCDs, for which a comprehensive approach is needed from all the sectors, viz. health, finance, education, and agriculture.
- Dr Salome Benjamin, Chief dietitian, Tata Memorial Medical College and Hospital, Mumbai delivered talk on 'Feeding Practices for Critically ill NCD Patients'. She emphasised on evidence based nutrition therapy to achieve desired outcomes and speedy recovery. She briefed about several enteral and parenteral therapies. She suggested that for the success of nutrition therapy, routine monitoring and extensive interaction between the professionals from fields of medicine, nutrition and physiotherapy is essential.
- Dr Anil Agrawal, Nutrition Expert, UNICEF, Jaipur delivered a lecture on 'Managing Transition-Nutrition a Double Edged Sword'. He discussed the double burden of malnutrition that India is facing, i.e. under nutrition as well as over nutrition, hence need to strategically plan out some national level programmes to combat the same.
- Dr Rajeev Gupta, Senior cardiologist, Eternal Heart Care Centre, Jaipur delivered his talk on 'Nutritional Approaches for Prevention and Management of Coronary Heart Diseases'. He emphasised on

nutritional prevention and management of prevalent NCDs, with a focus on cardiovascular diseases. He focused on the ill effects of the consumption of trans fats and how blending of different oils can help in better management of CVDs.

This session was followed by lunch and simultaneous session on poster presentation. In all, forty posters were displayed, which were evaluated by a panel of two judges - Dr Salome Benjamin and Prof Meenakshi Bakshi Mehan.

The next session was Technical session IV, in which a panel discussion on 'Global and National Initiatives for Prevention and Control of NCDs' was organized. The session was chaired by Prof. Pooja Talikoti, Head Department of Home Science, University of Rajasthan, Jaipur and the panellists for the session were Dr S K Sharma, Prof. Meenakshi Bakshi Mehan and Dr Anil Agarwal.

The conference ended with Valedictory session, which was presided over by Hon'ble Vice Chancellor, Dr Ashok Gupta and Registrar Dr Raakhi Gupta. Dr. Swati Vyas, Head, Department of Home Science, The IIS University presented the report on deliberations that took place in two day conference. This was followed by sharing of experiences by the delegates who attended the conference and distribution of awards for Best oral and poster presentations. The details of awardees is as follows -

BEST ORAL PRESENTATIONS:

- I. Archana Singh (University of Rajasthan, Jaipur)
- II. Swati Mathur (MDS University, Ajmer)
- III. Divya Rawat (Banasthali University, Banasthali, Tonk)

BEST POSTER PRESENTATIONS:

- I. Kamlesh Walia (University of Rajasthan, Jaipur)
- II. Deepti Lahoti (The IIS University, Jaipur)
- III. Vrinda Goyal (University of Rajasthan, Jaipur)

The conference thus brought together a galaxy of subject experts to deliberate on and arrive at cost effective interventions and innovative methods for prevention and better management of non communicable diseases

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International Conference on Biotechnology and Nanotechnology (ICBN-2016) (January 30-February 01, 2016)

Organized by
Department of Biotechnology, The IIS University, Jaipur



DAY I INAUGURAL SESSION

The three day conference on Biotechnology and Nanotechnology organized by Department of Biotechnology was held at The IIS University, scheduled for January 30-February 01, 2016. At the outset was the welcome note by Dr. Ashok Gupta, Patron and Vice Chancellor, The IIS University. Prof. Pradeep Bhatnagar, Dean life sciences, threw a light on the aims and objectives of the conference. Dr. Sreemoyee Chatterjee, convener of ICBN, thanked the gathering on behalf of the department and organizing committee. The session then began with the Keynote address that was delivered by Dr. S.J.S. Flora, Additional Director, DRDE, Gwalior. He addressed the issue of environmental pollution in terms of arsenic and its possible drug in the pipeline.

TECHNICAL SESSION I Recent Advances in arena of Biotechnology and Nanotechnology

ICBN started with its first session which was headed by Dr. S.J.S. Flora as a chairperson. His mesmerizing talk on

MiDMSA, a journey from lab to human trial was appreciated by all.

The first session included invited lectures on 'Recent Advances in arena of Biotechnology and Nanotechnology' that was commenced by invited lectures of Prof. Y Singh (IGIB, CSIR and University of Delhi), Dr. Akhil Banerjee (Scientist VII, NII, New Delhi) and Dr. V.K. Bhalla (Scientist D, IMTECH, Chandigarh). The session dealt with human diseases and role of nanobiology as detection platform.

DAY II: 31.01.2016 TECHNICAL SESSION II: Ecosphere and Environment: A Global Concern

The second day's session was on 'Ecosphere and Environment' and lectures were from Prof. A.B. Gupta, MNIT, Jaipur, Dr. C.S. Gahan, Central University of Rajasthan, Ajmer, Dr. Tarun Kant, AFRI, Jodhpur, and Dr. Akhil Agarwal, Central University of Rajasthan, Ajmer. The program covered environmental toxicity issues

and there possible remediation through biological intervention.

TECHNICAL SESSION III: CELLULAR AND MOLECULAR BIOLOGY

On the same day another session on 'Cellular and Molecular Biology' taken by Dr. Daniela, University Hospital of Wurzburg, Germany and Dr. Pankal Goyal, Central University of Rajasthan, Ajmer. The role of protein in various biological functions was discussed in this technical session.

DAY III TECHNICAL SESSION IV: TRANSLATIONAL THERAPEUTIC AGENTS & TOOLS OF 21ST CENTURY

The last day session covered topics on 'Translational Therapeutic Agents & Tools'. The invited speakers included Dr. Mohd. Zeeshan Ansari, Manipal University, Dubai, UAE, who emphasized on computational approach towards targeting aggregate formation in synucleinopathies. Dr. Gagan Dhawan, University of Delhi, Delhi, very vividly talked on high throughput data

analysis for drug discovery using machine learning. Prof. Vinay Sharma, Banasthali University, Tonk, Dr. Mukesh Sharma, R.R. Government College, Alwar, Dr. Nilima Kumari, Banasthali University, Tonk and Dr. Surendra Nimesh, Central University of Rajasthan, Ajmer were also there to share their views on recent trends in therapeutics.

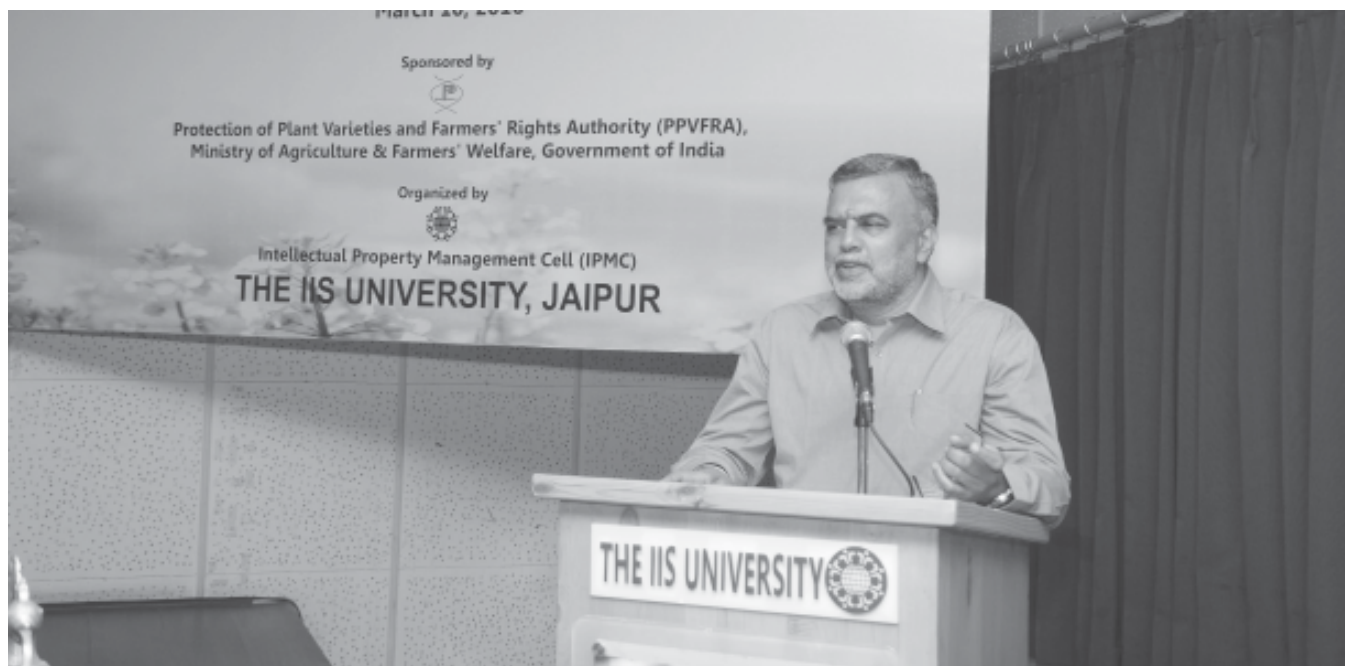
The conference had a total of 33 oral presentations and 79 poster presentations by both the faculty members and the students. All the talks had indeed been useful as they provided an insight in the recent advances going on in the field of Biotechnology and Nanotechnology. There were awards for best oral and best posters under different student categories.

The conference was concluded with valedictory function where, Prof. P. Ghosh, Director, BISR, Jaipur had told the gathering about significance of science in daily life and requirement of passion for doing science. During the valediction, certificates were distributed to the delegates and awards were given. Dr. Nidhi Gupta, Organizing Secretary, ICBN-2016; concluded the conference with the report reading and thanking all the invited speakers and delegates.

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Seminar on Protection of Plant Varieties and Farmers' Rights (10 March, 2016)

Organized by
Intellectual Property Management Cell (IPMC), , The IIS University, Jaipur



A Seminar on Protection of Plant Varieties and Farmers' Rights was organized on March 10, 2016 by Intellectual Property Management Cell (IPMC), The IIS University, Jaipur. The seminar was sponsored by Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA), Ministry of Agriculture & Farmers' Welfare, Government of India, New Delhi.

The Protection of Plant Variety and Farmers' Right Act, 2001 (PPV&FR Act) is an Act of the Parliament of India enacted to provide establishment of an effective system for protection of plant varieties, the rights of farmers and plant breeders, and to encourage the development and cultivation of new varieties of plants. This Act received the assent of the President of India on the October 30, 2001.

The seminar aimed at creating awareness regarding PPV&FR Act 2001 to accelerate agricultural development of new plant varieties and stimulate investment for research and development for generation of new, high quality plant varieties which will, in turn, promote overall national growth.

The inaugural function of the seminar started with the welcome address delivered by Prof. Pradeep Bhatnagar, Dean, Faculty of Science, The IIS University, Jaipur followed by the inaugural address of the Chief Guest of the event Dr. G. V. Reddy, Chief Wildlife Warden, Govt. of Rajasthan.

The first lecture was delivered by Mr. Sundaram Verma, farmer and plant breeder from village Danta, district Sikar, Rajasthan on topic 'Farmers' Innovation and Crop Diversity'. He is a National Award Winner in the subject. He is founder of Society for Working on Agro Biodiversity Horticulture Initiatives Management and Nature (SWABHIMAN - an NGO) that includes 15 grass root innovator awardees in various areas and aims to provide support and promotion to their innovations. Mr. Verma showed various varieties of vegetables that he has bred himself. He was accompanied by two lady farmers who shared their experience in the subject and exhibits the quality agro-produce of owned farm. The second lecture was on the topic 'An Overview of Indian agriculture with Specific Reference to Rajasthan and the Seed Legislation Including the PVP Act 2001' delivered by Shri N.S. Rathore, Former Director, Seed Certification, Rajasthan. This was

followed by a lecture of Mr. Rajveer Choudhary, Director, Rajasthan Adult Education Association, Jaipur on 'Indian Agriculture in Global Perspective'. Next was the lecture delivered by Dr. E.V. Divakara Sastry, Professor, RARI, Jaipur on 'Farmers Right Protection Act' 2001'. He added a note on the problems faced by Indian farmers.

The seminar concluded with the remarks of Mr. Pankaj Kumar, Asst. Prof. and IP Attorney, The IIS University,

Jaipur. A total of 85 participants including farmers, students and faculties from different universities and agricultural institutes of Rajasthan and persons from law firms of Delhi attended the seminar. The participants interacted with all the invited speakers. The seminar ended with distribution of certificate of participation to all the attendees. The lectures delivered by the experts in the field provided better understanding of the PPV&FR Act 2001 to the budding researchers, farmers and entrepreneurs in the agriculture sector.

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