

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय
महात्मा हंसराज मार्ग,
मलकागंज, दिल्ली - 110007
दूरभाष : 011-27667458, 27667747
ई-मेल : principal_hrc@yahoo.com
वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI
Mahatma Hansraj Marg
Malkaganj, Delhi – 110007
Tel.: 011-27667458, 27667747
E-mail: principal_hrc@yahoo.com
Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

2022-2023

Name of the Department/Society: Srishti Chetna-The Zoological Society

Name of the Event: Understanding neonatal brachial plexus injury mechanism to advance the science of obstetrical care”

Date of the Event: 15th June 2023

**Speaker: Dr Marlet Martinez
National Polytech Institute
Mexico City, Mexico**

Description of the event: Srishti Chetna-The Zoological Society of Hansraj college organised a seminar on “Understanding neonatal brachial plexus injury mechanism to advance the science of Obstetrical care”. Dr. Anita Singh, Associate Professor of Bioengineering at Temple University, Philadelphia, PA was invited as the guest for the 1st Dr. APJ Abdul Kalam International Lecture Series. Dr. Anita Singh's lecture provided a comprehensive summary of the neural basis of muscle control in forelimbs, the different types of brachial plexus injuries, their causes, and the resulting consequences. She also presented various diagnostic methods and tools to identify and assess neonatal brachial plexus injuries (NBPI), using real- life images, diagrams, graphs, statistical data, and computational models to support her experimental findings. At the beginning of her lecture, Dr. Singh delved into the fundamental aspects of the neural pathways responsible for muscle control in the forelimbs. She explained the intricate connection between the central nervous system and the peripheral nervous system, particularly focusing on the brachial plexus, a network of nerves originating from the spinal cord in the neck region. By establishing this understanding of the neural mechanisms involved, she provided a foundation for comprehending the complexities of brachial plexus injuries and their impact on motor function.

Dr. Singh then proceeded to discuss the various types of brachial plexus injuries, often occurring during childbirth due to excessive stretching or tearing of the nerves in the brachial plexus. She highlighted the causes of NBPI, including abnormal fetal positioning, prolonged labour, or improper obstetric maneuvers during delivery. By emphasizing the importance of understanding the origins of these injuries, she stressed the need for preventive measures and improved obstetrical care to reduce the occurrence of NBPI.

To illustrate the consequences of NBPI, Dr. Singh used real-life images and diagrams, visually demonstrating the affected nerves and associated muscle groups. These visuals showcased the potential impairment of motor function in the affected limb, leading to significant limitations in daily activities and hindering a child's overall development. By emphasizing the long-term effects of NBPI, Dr. Singh

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय
महात्मा हंसराज मार्ग,
मलकागंज, दिल्ली - 110007
दूरभाष : 011-27667458, 27667747
ई-मेल : principal_hrc@yahoo.com
वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI
Mahatma Hansraj Marg
Malkaganj, Delhi – 110007
Tel.: 011-27667458, 27667747
E-mail: principal_hrc@yahoo.com
Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

highlighted the importance of early diagnosis and intervention for optimal treatment outcomes. Furthermore, Dr. Singh supported her explanations with graphs, statistical data, and computational models, providing a comprehensive analysis of NBPI by incorporating empirical evidence and quantitative measurements. The utilization of statistical data allowed her to present the prevalence and incidence of NBPI, shedding light on the magnitude of the problem and emphasizing the need for research and advancements in obstetrical care. Additionally, the use of computational models facilitated a deeper understanding of the injury mechanisms and potential intervention strategies by simulating the biomechanics of NBPI.

Regarding diagnostics, Dr. Singh showcased the range of methods and tools available for identifying and assessing NBPI. She emphasized the importance of a multidisciplinary approach involving neurologists, orthopaedic surgeons, and physical therapists to accurately diagnose the severity and extent of the injury. Dr. Singh highlighted advanced imaging techniques, such as magnetic resonance imaging (MRI), for detailed visualization of the affected nerves and surrounding structures. She also emphasized the significance of electromyography (EMG) and nerve conduction studies (NCS) in evaluating the integrity and functionality of the nerves in the brachial plexus.

Throughout her lecture, Dr. Anita Singh integrated her experimental data with real-world examples and case studies, highlighting the relevance and practical application of her research in the field of obstetrical care. By incorporating various visual aids, including pictures, diagrams, graphs, statistical data, and computational models, she engaged the audience and facilitated a deeper understanding of the complexities associated with NBPI. Her presentation not only emphasized the need for ongoing research and advancements in this field but also underscored the importance of early intervention and improved obstetrical practices to minimize the occurrence and mitigate the impact of neonatal brachial plexus injuries.

After Dr. Anita Singh's lecture, an interactive "Question and Answer" session took place, enabling the audience to engage directly with the speaker. Attendees had the chance to ask questions and seek further clarification on different aspects of neonatal brachial plexus injuries. The session drew a significant number of participants, reflecting the audience's appreciation for the informative and thought-provoking discussion.

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय
महात्मा हंसराज मार्ग,
मलकागंज, दिल्ली - 110007
दूरभाष : 011-27667458, 27667747
ई-मेल : principal_hrc@yahoo.com
वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI
Mahatma Hansraj Marg
Malkaganj, Delhi – 110007
Tel.: 011-27667458, 27667747
E-mail: principal_hrc@yahoo.com
Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

Poster:

Srishti Chetna - The Zoological Society
&
Dr. APJ Abdul Kalam International Lecture Series
of
Dept. of Zoology, Hansraj College, University of Delhi
ORGANISES

LECTURE ON

"Understanding neonatal branchial plexus injury mechanism to advance the science of obstetrical care"

SPEAKER
DR. ANITA SINGH
Associate professor
Bioengineering
Temple University
Philadelphia, PA

VENUE
OLD SEMINAR ROOM,
HANSRAJ COLLEGE

TIME
2-3 PM

THURSDAY
15 JUNE, 2023

PROF. DR. I. BANU - PRINCIPAL, MRS. ALKA KACKER - VICE-PRINCIPAL, DR. ANITA THAKUR - TEACHER IN CHARGE, DR. TEJVEER SINGH - COORDINATOR, DR. DHIRAJ KUMAR - EVENT ORGANISER & CO-MENOR, ANKIL BORAH - GENERAL SECRETARY

Glimpse:



हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय
महात्मा हंसराज मार्ग,
मलकागंज, दिल्ली - 110007
दूरभाष : 011-27667458, 27667747
ई-मेल : principal_hrc@yahoo.com
वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI
Mahatma Hansraj Marg
Malkaganj, Delhi - 110007
Tel.: 011-27667458, 27667747
E-mail: principal_hrc@yahoo.com
Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

List of participants:

Name	Year	College/Uni	Department	Phone number	Email Id
Nimasa Hasan	I	Hansraj college	Zoology	97737506651	nimasa.hasan@gmail.com
Bhanukali Kishna	I	Hansraj college	Zoology	7016683002	krishnambranukali566@gmail.com
Rishika Jain	I	"	"	9911523035	ai/rishikajain.1611@gmail.com
Ashish Raj	I	"	"	7761856197	ashishxprt19@gmail.com
Nikhil Shrivast	I	"	"	7011062852	nikhilshrivast34@gmail.com
Arti Kumari	I	"	"	7070068076	singhaarti1902kuma@gmail.com
Aadipoojya Jain	I	"	"	8058020024	aadipoojyajain@gmail.com
Esha Sharma	I	"	"	9508939757	esha.95089@gmail.com
Vivek Kumar	I	"	"	6203110010	imviveksharma8792@gmail.com
Neelam Singh	I	"	"	7063638624	neelamj1920@gmail.com
Paneti Gupta	I	"	"	8079922852	py12209gupta@gmail.com
Rohit Kumar	I	"	"	8689069058	HK7289936@gmail.com
Md. Masum Raja	I	"	"	6207128341	mdmasum820628@gmail.com
Palak Saini	I	"	"	9358769039	PalakSaini.9039@gmail.com
Aditi	I	"	"	8595447237	msaditi5593@gmail.com
Mikita Arand	I	"	"	8092116938	mikita.arand@gmail.com
Nihal Varsh	I	"	"	8451137706	nihaal124@gmail.com
Lakshya Bansal	I	"	"	7053101011	Call.lakshya123@gmail.com
Anwesha Shikdas	I	"	"	7578081085	29anwesha@gmail.com
Kumar Virend	I	"	"	9110043262	KV76500@gmail.com
Sonu Kumar	I	"	"	7575101508	sk2640us89@gmail.com
Pravesh Kumar Meena	I	"	"	8690303757	praveshmeena695@gmail.com
Pratima Sharma	I	"	"	9999820243	PratimaSharma4742@gmail.com
Srijal Gosw	I	"	"	9319372309	gossajal7001@gmail.com
Manalisha panda	I	"	"	8984500739	Manalishapanda012@gmail.com

Name	Year	College/Uni	Department	Phone number	Email Id
SAURAV	I	Hansraj	Zoology	817882250	legendsaurav01@gmail.com
Alok Suman	"	"	"	919180416	aloksuman.1998@gmail.com
Pravesh Kuma	I	"	"		
Savitika Kumari	I	"	"	9724743020	23savitika@gmail.com
Deepak	I	"	"	9871652738	dpk1700kuma@gmail.com
Md. Aqueel Iqbal	I	"	"	8800605546	aqueeliqbal20@gmail.com
Yamini Hansini	I	"	"	9999497370	yaminihansini2004@gmail.com
Rahul Chatterjee	I	"	"		
Ashiraj Patil	I	Hansraj	Zoology	9205288059	ashirajpatil6@gmail.com
Ashwini Raina	I	Hansraj	Zoology	8264610740	ashwiniraina16@gmail.com
Amisha Garg	I	Hansraj	Zoology	9729702957	amisha9991091891@gmail.com
Utsav Bhat	I	Hansraj	"	6006458226	utshabandha04@gmail.com
Tanisha Bhati	"	"	"	9811682370	tanisha.bhati113@gmail.com
Kirti	"	"	"	9354755677	Kirti05k@gmail.com
Megha	"	"	"	9717185068	Khanmmegha794@gmail.com
Jyoti Kumari	I	"	"	9582226844	jyoti.959939@gmail.com
Himanshu Sharma	I	"	"	7023350910	himanshu.sharma30aku@gmail.com
Shamika	I	"	"	7317709076	shamika1401@gmail.com
Saket Patel	I	"	"	9667648515	Saketpatel24@gmail.com
Yash Nayak	I	"	"	7016066279	Yashnayanayak33@gmail.com
Arshad Khan	I	"	"	8006507773	arshadkhan2004@gmail.com
Noor	I	"	"	9306331970	gargnoor50@gmail.com
Gulshan	I	"	"	8429716538	gulshan127sano@gmail.com
Smriti Jais	I	"	"	9998225060	smritijais16@gmail.com
Abhinav Bhatnagar	I	"	"	8791332622	AbhinavBhatnagar362@gmail.com