



# INDIAN SOCIETY OF ANAESTHESIOLOGISTS

LUCKNOW CHAPTER

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*A Well New Year*

January 2021:

Newsletter Of ISA City Branch, Lucknow

Dear city branch members,

As we welcome 2021, we send our first greetings of this new year to everyone. Lets cherish our moments of 2020 and embrace the new year with enthusiasm and hope. With these optimistic words I present the newsletter of January month which covers:

- 1)Who doesn't want to start off the new year with a healthy dose of happiness, presenting new year greetings by ISA Lucknow city branch President Dr. Shashi Srivastava.
- 2)Welcome message by ISA Lucknow city branch secretary Dr. Tanmay Tiwari and Dr. Somnath Longani
- 3)Editorial on COVISHIELD
- 4)World anaesthesia day celebrations
- 5)Webinar on Post Covid Anaesthesia: A Paradigm Shift
- 6)Tentative upcoming events lined up in next few months

## *New Year Greetings!!*

Dear members,  
ISA Lucknow

First of all, I humbly thank all the members of Indian society of anaesthesiologists, Lucknow branch for the honour bestowed upon me to hold the post of the president of this prestigious society for the year 2020-21. It gives me immense pleasure and sense of responsibility to serve this society. I welcome all the newly elected executive members this year. I express my sincere gratitude to the outgoing president and the executive members for their earnest efforts in the upliftment of the society and academically placing this society to a very high platform. I assure you that I will continue to encourage and try my best to complete all the tasks that my predecessors have initiated. Lucknow ISA is committed to maintain a high standard of academics for the benefit of all the professionals, hence keeping up with the tradition we are planning to have an intense teaching programme for the entire year. As you all are aware that ongoing covid -19 pandemic has affected teaching and research worldwide very badly, it has changed the traditional education system to the educational technologies model therefore this year society is planning to organise series of online webinars on specialty based topics on monthly or bimonthly basis. My sincere request to all the members to encourage all those who have completed training in anaesthesia to become members of this esteemed society. I take the pleasure in inviting you all once again to get involved in our society related activities and send to us your valuable suggestions and feedback, helping us in performing our duties efficiently as per your expectations

With best wishes

Happy reading!!

Dr. Shashi Srivastava

President

ISA Lucknow City Branch

## *Welcome Message!!*



### NEW YEAR WITH NEW CHALLENGES

2020 would always have some special mention in our lives. The year that passed made us realise the being 'POSITIVE' can be troublesome and worrying.

The difficult times amid the coronavirus crisis have reminded us about the contributions and sacrifices made by doctors and the healthcare staff around the world and India too.

Anaesthesiologists in particular came to the forefront for rescuing and providing great care for patients. We rose to the occasion and performed our duties with utmost pride and dedication.

On top of an enormous loss of human lives, the pandemic paused many people's progress on long-plotted family and career goals. It forced countless celebrations holiday gatherings, webinars and the inception of art of virtual learning on multiple social media platforms.

Yet as doctors we have found ways to connect, even on the COVID ward. Practicing medicine means coming face-to-face with death, and during this pandemic that's been a daily struggle for all of us.

During this pandemic year, there was a change of guard for the executive committee of Indian Society of Anaesthesiologists, Lucknow city branch on the auspicious day of World Anesthesia Day 2020.

We would try to grab this opportunity with full enthusiasm and would focus on the academic, cultural and sports activities under the banner of ISA Lucknow. Our efforts would never be short of providing educational activities on all relevant topics for the members of the society.

It would be our first priority, to start again with regular meetings on the REAL ground with an option to attend it virtually as soon as the pandemic slows and our government allows with definite guidelines.

It is indeed our pleasure to work under the banner of ISA for the distinguished members of our society and would request you all to be a part of this journey. We would be obliged, if our members can guide us regularly for betterment and development of our society and individual as a whole.

At the end, I would request everyone to continue their work with full precautions and take care of themselves and their family.

Long Live ISA& Long Live INDIA, JAI HIND

With Regards always

Dr. Tanmay Tiwari  
Associate Professor  
Department Of Anesthesia & Critical Care  
King George's Medical University,  
Lucknow.  
Secretary, ISA Lucknow City branch.

## *Welcome Message!!*

Dear seniors and friends,

Greeting and warm wishes for new year. After eventful 2020, I am reasonably hopeful that new year will bring smiles back on the faces of everyone.

Year 2020, though disruptive, ushered lot of initiatives & changes in the lives of all of us- primarily the use of technology. It leapfrogged the education, training and governance; bringing in transparency to far and wide across the globe, defining new normal.

Covid pandemic has brought the spotlight on speciality of anaesthesia and critical care highlighting the role of Anaesthesiologist. It highlighted our resilience, strength, great team work and area we need to focus -research, patient safety advocacy. Collaboration with industry and teaching institutions to help creating start ups and trained manpower in anaesthesia and critical care.

I have no doubt future is bright & we are ready to take all the challenges by horn to come out victorious. We may have been scarred but our spirits are up with a motive to serve the man kind.

Wish you all the best ,stay safe & healthy

Long Live ISA

DR. SOMNATH LONGANI

MD

Professor, Department of Anaesthesiology

HIMS Barabanki.

## *Editorial message!!*

### *Covishield*

The current pandemic of Coronavirus Disease 2019 (COVID-19) has resulted in large-scale morbidity and mortality.

The Covishield vaccine- This is the first 'made in India' vaccine by Serum Institute of India (SII) in Pune, Maharashtra. The phase 3 human trials of Oxford-AstraZeneca's Covid-19 vaccine AZD1222 have been conducted in SII as Covishield vaccine. The SII has applied for the emergency use authorisation (EUA) of this vaccine from the Drugs Controller General of India (DCGI). Making it the second such drug producing company after Pfizer-BioNTech. The SII has shared interim data with the DCGI of four clinical trials — one in India, two trials in the UK, and one in Brazil.

Name of vaccine: COVISHIELD, ChAdOx1 nCoV-19 Corona Virus Vaccine (recombinant)

Composition: one dose (0.5 ml) contains  $5 \times 10^{10}$  viral particles

Recombinant, replication-deficient chimpanzee adenovirus vector encoding the SARS-CoV-2 Spike (S) glycoprotein.

Produced in genetically modified human embryonic kidney (HEK) 293 cells.

This product contains genetically modified organisms (GMOs).

Indication : active immunisation of individuals  $\geq 18$  years old for the prevention of coronavirus disease 2019 (COVID-19).

Posology: vaccination course consists of two separate doses of 0.5 ml each. The second dose should be administered between 4 to 6 weeks after the first dose.

#### Special populations

1. Elderly population: Efficacy and safety data are currently limited in individuals  $\geq 65$  years of age. However, no dose modification required.

2. Paediatric population: No data available for age  $< 18$  years.

3. Pregnancy: Limited experience in pregnant women. Preliminary animal studies do not indicate direct or indirect harmful effects with respect to pregnancy, embryofetal development, parturition or postnatal development; definitive animal studies have not been completed yet. The full relevance of animal studies to human risk with vaccines for COVID-19 remains to be established.

Administration in pregnancy should only be considered when the potential benefits outweigh any potential risks for the mother and foetus.

Method of administration: intramuscular (IM) injection only.

Contraindications: Hypersensitivity, concurrent illness (acute severe febrile illness, thrombocytopenia and coagulation disorders, immunocompromised individuals)

Duration and level of protection: not yet been established.

Interchangeability: No data are available on the use of Covishield in persons that have previously received other COVID-19 vaccine.

Interaction with other medicinal products: No data

Data from the Overseas studies:

Four clinical trials were conducted in the United Kingdom, Brazil and South Africa. 23,745 participants  $\geq 18$  years old were randomised and received either COVID-19 Vaccine AstraZeneca or control. 12,021 participants received at least one dose of COVID-19 Vaccine AstraZeneca. The median duration of follow-up in the COVID-19 Vaccine AstraZeneca group was 105 days post dose 1, and 62 days post dose 2. Demographic characteristics were similar among both groups. Among the participants who received COVID-19 Vaccine AstraZeneca, 90.3% were aged 18 to 64 years and 9.7% were 65 years of age or older. The majority of recipients were white (75.5%), 10.1% were black and 3.5% were Asian; 55.8% were female and 44.2% male.

The reported adverse reactions were injection site tenderness ( $>60\%$ ); headache, fatigue ( $>50\%$ ); myalgia, malaise ( $>40\%$ ); pyrexia, chills ( $>30\%$ ); and arthralgia, nausea ( $>20\%$ ). The adverse reactions were mild to moderate in severity and resolved within a few days of vaccination. By day 7 the incidence of subjects with at least one local or systemic reaction was 4% and 13%, respectively. When compared with the first dose, adverse reactions reported after the second dose were milder and reported less frequently.

Analgesic and/or anti-pyretic may be used to provide symptomatic relief. Very rare events of neuroinflammatory disorders have been reported following vaccination. A causal relationship has not been established.

Data from the Indian study:

This interim analysis includes data collected until 14 Dec 2020 of all 1600 participants who received first dose and 1577 participants who received second dose. Demographic characteristics were similar among participants. Among the participants who received COVISHIELD, 87.33% were aged 18 to 59 years and 12.67% were 60 years of age or older. Overall, the incidence of solicited reactions (injection site reactions such as pain, tenderness, redness, warmth, itch, swelling and induration; and systemic reactions include fever, chills, fatigue, malaise, headache, arthralgia and myalgia), unsolicited adverse events and serious adverse events (SAEs) was comparable in the study and control groups.

Mechanism of action

COVISHIELDTM is a monovalent vaccine composed of a single recombinant, replication-deficient chimpanzee adenovirus (ChAdOx1) vector encoding the S glycoprotein of SARS-CoV-2. Following administration, the S glycoprotein of SARS-CoV-2 is expressed locally stimulating neutralizing antibody and cellular immune responses.

## Clinical efficacy

### COVISHIELD efficacy against COVID-19

Population	COVID-19 Vaccine AstraZeneca		Control		Vaccine efficacy % (95.84% CI)
	N	Number of COVID-19 cases, n (%)	N	Number of COVID-19 cases, n (%)	
Primary	5807		5829		
Covid-19 cases		30 (0.52)		101 (1.73)	70.42 (58.84, 80.63)
Hospitalisations		0		5 (0.09)	
Severe disease		0		1 (0.02)	

The level of protection gained from single dose of COVID-19 Vaccine AstraZeneca was assessed in an exploratory analysis that included participants who had received one dose. In this population, vaccine efficacy from 22 days post dose 1 was 73.00% (95% CI: 48.79; 85.76 [COVID-19 Vaccine AstraZeneca 12/7,998 vs control 44/7,982]). Exploratory analyses showed that increased immunogenicity was associated with a longer dose interval.

#### References:

1. Voysey M, Clemens SAC, Madhi SA, et al. Safety and efficacy of the ChAdOx1 nCoV-19 vaccine (AZD1222) against SARS-CoV-2: an interim analysis of four randomised controlled trials in Brazil, South Africa, and the UK. Lancet 2020 December 8. [https://doi.org/10.1016/S0140-6736\(20\)32661-1](https://doi.org/10.1016/S0140-6736(20)32661-1)
2. Fact sheet of Covishield.

## *World Anaesthesia Day Celebrations !!*

As we welcome new year we take a look at the last years event World Anaesthesia Day celebrations. In these difficult times of Covid-19 pandemic, World Anaesthesia Day was celebrated at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow, taking all Covid-19 precautions, maintaining social distancing with online platform for oration and virtual zoom broadcasting for interaction.

It was held on 16<sup>th</sup> October 2020, with a welcome address and 2minute silence as a mark of respect for the members of the fraternity who laid down their lives fighting the covid pandemic. Dr. Devendra Singh Negi, Director General health and Dr. Rakesh Dubey, Director General Family welfare, kindly agreed to be the Chief Guest of the Ether Day Celebrations organised by Lucknow Chapter of ISA.



After lighting the ceremonial lamp, Dr Anjan Trikha delivered the oration via online platform, titled “Anaesthesia During Covid 19- Contemplating the Future.”

Following the oration Prof. Rajni Gupta, Past President of Lucknow Chapter of ISA delivered the welcome address followed by the inaugural address by Prof. Deepak Malviya. Brig. T Prabhakar and Dr. Virendra Sharma also addressed the gathering. After that Dr. S.S. Nath Past secretary, Lucknow Chapter of ISA read out the annual report of activities of Lucknow Chapter of ISA.



Prof. Prabhat Tiwari received the first Col RK Tripathi Award for outstanding and monumental contribution to Anaesthesiology by Col RK Tripathi and Dr. SS Nath.





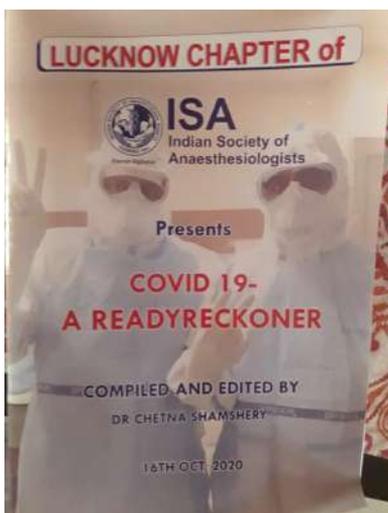
This was followed by felicitation of our eminent members Dr. D S Negi and Dr. Rakesh Dubey by Prof. Deepak Malviya and Dr. Virendra Sharma. Our COVID warriors were also introduced and felicitated by Dr. SS Nath.



Dr. Nandini N, J.R. of Dr.RMLIMS, Lucknow was awarded the Golden Laryngoscope award by Prof. Rajni Gupta and Brig. T Prabhakar for the best paper by PG students presented during the 42<sup>nd</sup> UPISAWEBCON 2020 organised by Department of Anaesthesiology, Institute of Medical Sciences, BHU, Varanasi.



This was followed by hand over of the charge by Prof. Rajni Gupta to the new President of ISA Lucknow City Branch, Prof. Shashi Srivastava. The new team of office bearers had been elected unanimously. ISA Lucknow Chapter had bought out a Ready Reckoner on Covid-19, copies of which were distributed by Dr. Chetna Shamshery to the dignitaries for releasing it.



Felicitation of the dignitaries and also the outgoing team of office bearers, by presenting flower pots was done. The formal meeting ended with the National Anthem and Vote of thanks by Dr. Chetna Shamshery. After that the dignitaries joined in the cake cutting ceremony.

The programme was followed by dinner in batches and ensuring social distancing.

## *ISA virtual conference !!*

In continuation with our journey of information about COVID-19, Department of Anaesthesiology, SGPGIMS and ISA Lucknow City branch, held a webinar on topic “Post Covid Anaesthesia: A Paradigm shift.” On 8<sup>th</sup> January 2021. With actively involved audience, and speakers Dr. Shashi Srivastava, Dr. Prem Raj, Dr. Suruchi, Dr. Ruchi Verma, Dr. Mamta Harjai, the CME was greatly applauded by the participants. The CME started with welcome address by Dr. Shashi Srivastava and followed by four lectures and ending with a panel discussion moderated by Dr. SS Nath. The main highlights of the CME was COVID-19, covering from its pathophysiology to Pre, intra and postoperative concerns in Covid-19 recovered patients. Panel discussion covered the private practitioner’s perspective regarding Covid-19.



Tentative upcoming events lined up in next few months

Actively involving the members, is lined up multiple webinars and academic events, dates of which will be updated soon.

Any information, queries, complaints or academic content directed to the ISA lucknow chapter is most welcome at [isalucknowchapter@gmail.com](mailto:isalucknowchapter@gmail.com)

Happy Reading!!!

Dr Samiksha Parashar

Editor: Lucknow ISA Chapter

Assistant Professor, Anaesthesiology

Dr. Ram Manohar Lohia Institute of Medical Sciences