



July 2018

[www.navsindia.org](http://www.navsindia.org)

# NAVS NEWSLETTER

(Quarterly)

*For Private Circulation Only*  
New Delhi



**Editor: Prof. Dr. R.N. Kohli**

**NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)**

Office: G-4, A Block, NASC, Dev Prakash Shastri Marg, New Delhi-110 012

**NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)**

*(Registered with the Registrar of Societies vide Regn. certificate No.S-2/4471 of 1993 dated 7<sup>th</sup> July 1993)*

**NEW DELHI**

**NAVS NEWSLETTER**

**JULY, 2018**

The NAVS Newsletter is an Open Access Non-Commercial e-publication for private circulation to all those who are associated with the Academy, as well as to related Veterinary and allied institutions and organizations, and other interested professionals.

It permits non-commercial reproduction of its contents to publications of similar readership in any medium, provided NAVS Newsletter is properly cited.

**WORLD VETERINARY DAY WAS CELEBRATED ON APRIL 28, 2018**

**and**

**WORLD MILK DAY WAS CELEBRATED ON JUNE 1, 2018**

**CONTENTS**

1. NAVS General Information.....	3
2. NAVS News .....	6
3. Editor's Note: .....	9
4. Letters to the Editor .....	12
5. From the President's Desk:.. ..	14.
6. Vet Track:	
OBITUARY: Dr. R.P.S. Tyagi; Dr. D.S. Kalra; Dr. R.C. Chhabra.....	15
7. View Point:	
Animal Welfare: Some Concepts and Controversies: Rama Kumar V.....	19
8. National & International Veterinary News .....	21
9. Science, Health & Society.....	28
10: Forthcoming Events (Calendar of Conferences, Conventions and Symposia in India and abroad) .....	37

**Cover design assistance: Mr. Narendra Pandey**

**Editor Dr. R.N. Kohli**

**All correspondence regarding the Newsletter may kindly be addressed to the Editor :  
email: [rnkohli@gmail.com](mailto:rnkohli@gmail.com)**

**NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)**

**Office: G-4, A Block, NASC, Dev Prakash Shastri Marg, New Delhi-110 012**

**[www.navsindia.org](http://www.navsindia.org)**

## **CH. 1: NAVS GENERAL INFORMATION**

### **OUR MISSION**

“To consolidate and promote the views of scientific community on all policy matters related to Veterinary Science and Animal Husbandry in the welfare of India; to encourage better training and utilization of veterinary talent and enterprise in the country; to strive for advancement of livestock sector in the national economy; to promote animal welfare; to protect environment; and to safeguard the interests of the profession and to gain greater recognition and acclaim for it”.

### **1.1: GOVERNING COUNCIL 2017-19**

#### **Office Bearers**

President: Maj. Gen. Dr. Shri Kant Sharma, SM, VSM;  
[shrikant28@hotmail.com](mailto:shrikant28@hotmail.com)

Vice-President: Dr. DVR Prakash Rao, Chennai: [contact@prakashfeeds.com](mailto:contact@prakashfeeds.com)

Secretary General: Dr. S.K. Gupta: [drsuringupta@gmail.com](mailto:drsuringupta@gmail.com)

Treasurer: Dr. Nem Singh: [singhnem1945@gmail.com](mailto:singhnem1945@gmail.com)

Editor: Dr. R. N. Kohli: [rnkohli@gmail.com](mailto:rnkohli@gmail.com)

#### **Members**

##### **ELECTED**

Dr. B.N. Tripathi, Hisar: [bntripathi1@yahoo.co.in](mailto:bntripathi1@yahoo.co.in)

Dr. Sanjeev Kumar, Izatnagar: [skgcari@yahoo.co.uk](mailto:skgcari@yahoo.co.uk)

Dr. Minakshi Prasad, Hisar: [minakshi.abt@gmail.com](mailto:minakshi.abt@gmail.com)

Dr. S.K. Srivastava, Izatnagar: [sksrivastava1093@gmail.com](mailto:sksrivastava1093@gmail.com)

Maj. Gen. Dr. M. L. Sharma: [sharmaml@thebrookeindia.org](mailto:sharmaml@thebrookeindia.org)

Dr. Ravindra Sharma, Hisar: [rsharma698@gmail.com](mailto:rsharma698@gmail.com)

Dr. V.D.P. Rao, Vijaywada: [raovdp@rediffmail.com](mailto:raovdp@rediffmail.com)

Col. Dr. R. P. Garg, VSM, Noida, U.P.: email ID not available

Dr. S.N. Singh, Bangalore: [snsingh.2006@gmail.com](mailto:snsingh.2006@gmail.com)

Dr. S.K. Saha, Izatnagar: [subodhksaha@yahoo.com](mailto:subodhksaha@yahoo.com)

Dr. A.B. Mandal, Izatnagar: [drab.mandal@gmail.com](mailto:drab.mandal@gmail.com)

Dr. S.S. Randhawa, Ludhiana: [sarnarinder@gmail.com](mailto:sarnarinder@gmail.com)

Dr. Mandeep Sharma, Palampur: [mandeepsharma289@hotmail.com](mailto:mandeepsharma289@hotmail.com)

Dr. P. N. Khanna: [pran\\_khanna@rediffmail.com](mailto:pran_khanna@rediffmail.com)

Dr. S. K. Tiwari, Durg: [drtiwarisurgery@gmail.com](mailto:drtiwarisurgery@gmail.com)

#### **Members**

##### **EX-OFFICIO**

Incumbents holding following Official GOVT. OF INDIA POSITIONS are Ex-Officio members: DG RVS; DDG (A.S.), ICAR; AHC (GOI); and President VCI

## **1.2: PATRONS, HONORARY FELLOWS**

### **PATRONS**

**\*Dr. R.P.S. Tyagi (2004)**

### **HONORARY FELLOWS**

**Shri. Sirajudin Qureshi (2006); \*Dr. N.R. Bhasin (2011); \*Dr. J.P. Kukreti (2012); Shri Sushil Kumar Agrawal (2012); Dr. Sanjeev Kumar Balyan (2014); Dr. Anup Kalra (2017)**

**\*Since deceased**

## **1.3: INSTITUTIONAL/CORPORATE LIFE MEMBERS**

### **INSTITUTIONAL LIFE MEMBERS**

**LUVAS (Lala Lajpat Rai University of Veterinary & Animal Sciences), Hisar, Haryana.**

**CKVU (Chattisgarh Kamdhenu Veterinary University), Raipur / Durg, Chattisgarh.**

**MAFSU (Maharashtra Animal & Fisheries Sciences University), Nagpur, Maharashtra**

**RAJUVAS (Rajasthan University of Veterinary & Animal Sciences), Bikaner, Rajasthan**

**DUVASU (Deen Dayal Upadhadhaya Veterinary and Animal Sciences University, Mathura, U.P.**

**KCVAS (Khalsa College of Veterinary & Animal Sciences), Amritsar, Punjab  
Sri Venkateshwara Veterinary University, Tirupati, A.P.**

**Kamdhenu University, Gandhinagar-382010, Gujrat  
Bihar Animal Sciences University, Patna (Bihar)**

### **CORPORATE LIFE MEMBERS**

**M/S Indian Herbs, Saharanpur**

**M/S Ayurved Limited**

## **1.4: PAST OFFICE BEARERS OF THE ACADEMY**

### **Presidents:**

**\* Dr. C.M. Singh - 1993 - 2004 (Founder President)**

**Dr. S.K. Ranjhan - 2004-2007**

**Dr. S.C. Adlakha - 1/7/2007 - 28-2-2008**

**Dr. R.R. Shukla - 28/2/2008 - 31/10/2010**

**Dr. M.P. Yadav - 31/10/2010 - 31/12/2013**

**Dr. K.M.L. Pathak 1/1/2014 - 22/4/2017**

### **Vice-Presidents:**

\*Dr. R.P.S. Tyagi -1993 - 2004  
Col. (Dr.) V.K. Bhatnagar- 2004-2007  
Dr. R.R. Shukla - 1/7/2007 - 28-2-2008  
Dr. P.N. Khanna - 28-2-2008 - 31/10/ 2010  
Col. (Dr.) V.K. Bhatnagar- 31/10/2010 - 31/12/2013  
Maj. Gen. (Dr.) Shri Kant Sharma 1/1/2014 - 22/4/2017

### **Secretary Generals:**

Dr. P.N. Bhatt -1993 - 2004  
\* Dr. K.L. Sahani -2004-2007  
\* Dr. B.S. Nanda - 1/7/2007 - 23-5-2008  
Dr. N.N. Pathak - 23-5-2008 - 6/7/2009  
Dr. R.N. Kohli - 6/7/2009 - 31/10/2010  
Dr. Gaya Prasad - 31/10/2010 - 31/12/2013  
Dr. Rishendra Verma - 1/1/2014 - 22/4/2017

### **Treasurers:**

Dr. A. Ahmad and Dr. B.S. Malik } -1993 - 2004  
Dr. P.N. Khanna - 2004-2007  
Dr. Lal Krishna - 2007 to - 22/4/2017

### **Editors:**

Dr. R.N. Kohli - 6/7/2009 to Present Date (Founder Editor)

-----  
\* Since deceased

## **1.5: CHRONOLGY OF NAVS CONVOCATIONS-CUM-CONVENTIONS**

1. First NAVS Convocation: 18<sup>th</sup> December 1996 at Vigyan Bhawan, New Delhi
2. Second NAVS Convocation: 30<sup>th</sup> January 2000 at Pragati Maidan, New Delhi
3. Third NAVS Convocation: 16<sup>th</sup> April 2002 at IVRI, Izatnagar, U.P.
4. Fourth NAVS Convocation: 7<sup>th</sup> May 2005 at GBPUAT, Pantnagar, Uttrakhand
5. Fifth NAVS Convocation: 5<sup>th</sup> May 2006 at JNKVV, Jabalpur, M.P.
6. Sixth NAVS Convocation: 28<sup>th</sup> June 2007 at KVAFSU, Bangalore, Karnataka
7. Seventh NAVS Convocation: 16 May 2008 at SKUAST, Jammu, J. & K.
8. Eighth NAVS Convocation: 23<sup>rd</sup> January 2009 at SVVU, Tirupati, Andhra Pradesh
9. Ninth NAVS Convocation: 30<sup>th</sup> October 2010 at NDRI, Karnal, Haryana.
10. Tenth NAVS Convocation: 12<sup>th</sup> November 2011 at RAJUVAS, Bikaner, Rajasthan.
11. Eleventh NAVS Convocation: 2<sup>nd</sup> November 2012 at DUVASU, Mathura, U.P.
12. Twelfth NAVS Convocation: 28<sup>th</sup> January 2014 at LUVAS, Hisar, Haryana
13. Thirteenth NAVS Convocation: 28<sup>th</sup> February 2015 at CGKV, Durg, Chhatisgarh
14. Fourteenth NAVS Convocation: 4<sup>th</sup> November, 2015 at IVRI, Izatnagar, U.P.
15. Fifteenth NAVS Convocation held on 22 October, 2016 at KCVAS, Amritsar, Punjab
16. Sixteenth NAVS Convocation held on 4-5 November 2017 at Tirupati, A.P.
17. Seventeenth NAVS Convocation: Scheduled for 19-20 December 2018 at OUAT, Bhubaneswar.

## **CH. 2: NAVS NEWS**

### **2.1: NAVS Governing Council Meeting held on June 15, 2018**

Fifth meeting of the present Governing Council of NAVS (India) was held on 15.06.2018 in the office of the Academy, in New Delhi, and was attended by 16 GC members. Following are some of the highlights of the meeting:

1. For the first time the Academy is going to introduce two awards i.e. Dr. C.M. Singh Memorial Award for excellence in veterinary and animal sciences and ii) Young Scientists' award for original contribution in veterinary and animal sciences. The modalities for these awards were discussed and finalized. In both the cases two awards have been proposed i.e. one in animal health and another in animal production.
2. This time there was an overwhelming response for the various awards of the academy (30 applications for the Fellowship, seven each for Membership and Associate Membership).
3. The document 'Paravet Regulation in India' has already been published and has been sent to the concerned quarters.
4. The proposal to establish Indian Council of Veterinary Research has been submitted to the Hon'ble Minister of Agriculture and Farmers' Welfare; Secretary, Department of Animal Husbandry, Dairying and Fisheries and Animal Husbandry Commissioner, GOI.
5. During a short span of about one year we have been able to mobilize Rs. 21 lakhs for NAVS (I)-a unique feat.

#### **Glimpses of Governing Council Meeting**





Minutes of the meeting will be posted on the Website.

## **2.2: NAVS President and Vice-President meet DG ICAR**

Maj Gen Shri Kant, President NAVS and Dr DVR Prakash Rao, Vice-President NAVS met Dr. Trilochan Mohapatra, DG ICAR on 15 June 2018 (AN) in Krishi Bhawan, New Delhi. The following issues were discussed at length:

- (a) Release of financial assistance to Orrisa University of Agriculture and Technology (OUAT) Bhubaneswar for organising the 17<sup>th</sup> Convocation-cum -Scientific Seminar on 19th and 20th December, 2018 on the theme: “Livestock Sector towards One Health, Food Security and Safety”. The event will be organised jointly by OUAT and NAVS (India).
- (b) Grant-in-aid on annual basis to NAVS for upkeep of its office, skeletal staff and running routine activities of the academy on the pattern of NAAS.
- (c) Recognition of NAVS Fellows by ICAR and ASRB at par with fellows of other academies like NAAS for granting requisite scores to the applicants for various posts.
- (d) He was requested to attend the annual convocation of NAVS at OUAT during December 2018.

The DG ICAR has very kindly agreed to release the financial aid for the scientific seminar and assured to examine point No. (c) and (d) above with open mind. Further, he suggested the President NAVS to send the proposal in writing. He also assured to attend the convocation upon invitation.

## **2.3: Meeting of NAVS President and Vice-President with Secretary, Department of Animal Husbandry, Dairying and Fisheries**

Maj Gen Shri Kant, President NAVS and Dr DVR Prakash Rao, Vice-President NAVS met Shri. Tarun Shridhar, IAS, Secretary Govt of India,

Ministry of Agriculture and Farmers Welfare, Department of Animal Husbandary, Dairying and Fisheries, on 15 June 2018 (AN) in Krishi Bhawan, New Delhi. Both highlighted the importance of Live Sector in national economy, employment generation and nutritional security and requested him to help in establishing Indian Council of Veterinary Research. He informed that the DO letter written by the President NAVS has been received along with the proposal. The same has been perused. There would be in house discussion first and, if required, he would call the President for briefing and power point presentation. The discussion was held in cordial environment.

#### **2.4: Recent Corporate and Institutional Life Members of NAVS**

Recently, the National Academy of Veterinary Sciences (India) admitted M/s Ayurvet Limited as Corporate Life Member and Kamdhenu University, Gandhinagar (Gujarat), Sri Venkateswara Veterinary University, Tirupati (A.P.) and Bihar Animal Sciences University, Patna (Bihar) as Institutional Life Members. The linkage of NAVS (India) with corporate/institutional life members will pave the way for sustainable development of veterinary profession in future.

A full list of all Institutional and Corporate life members of the Academy appears in the first Chapter of the Newsletter - NAVS General Information.

### **NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)**

#### **CONTACT US**

**PRESIDENT:** Maj. Gen. (Retd.) Shri Kant Sharma, SM, VSM;

Ex-Vice-Chancellor, LUVAS, Hisar (Haryana). Ph. 9416314967;

Email: [shrikant28@hotmail.com](mailto:shrikant28@hotmail.com)

**VICE-PRESIDENT:** Dr. D.V.R. Prakash Rao, Chennai. Ph. 9940099000

Email: [Contect@prakashfeeds.com](mailto:Contect@prakashfeeds.com); Ph. 9940099000

**SECRETARY GENERAL** Prof. Dr. S.K. Gupta, LUVAS, Hisar (Haryana).

Contact#: +9896068399(M), Email: [drsurengupta@rediffmail.com](mailto:drsurengupta@rediffmail.com)

**TREASURER:** Dr. Nem Singh, Ghaziabad, U. P. Ph. 9818244710, 9711760402

Email: [singhnem1945@gmail.com](mailto:singhnem1945@gmail.com)

**EDITOR:** Prof. Dr. R.N. Kohli, 922, Sector-A (B&C), Vasant Kunj, New Delhi-70

Ph. 011-46065021; 9968920200. Email: [rnkohli@gmail.com](mailto:rnkohli@gmail.com)



### Ch. 3. EDITOR'S NOTE

#### 3.1: WE LOST A GREAT VETERINARY EDUCATIONIST

I received the news of the sad demise of Dr. R.P.S. Tyagi with a deep sense of grief, both personal and professional. Dr. R.P.S. Tyagi's contributions to Veterinary Education in India for about half a century are without a parallel. He rose to unbeatable professional heights much faster than most of his compatriots. His brilliant farsightedness in developing and maintaining personal relations with his close associates and professionals, both junior and senior to him, are worth emulating by the young and aspiring generations of veterinarians. Losing Dr. Tyagi is the biggest loss to the profession after the demise of Dr. C.M. Singh, who was one of his greatest admirers. A large number of Dr. Tyagi's former students and colleagues owe their professional growth at least partly to his beneficial hand and helpful nature. My heartfelt condolences to all his children, particularly his daughter, Dr. Rashmi Tyagi.

An Obituary on Dr. R.P.S. Tyagi appears elsewhere in this issue (Chapter-6)



#### 3.2: Misuse of Oxytocin in Dairy Animals

Misuse of Oxytocin in Dairy Animals by the farmers seems to have attained a menacing status. A hormone that the animal body manufactures for its own physiological purposes of expelling the fetus from the uterus during parturition and the let down of milk by causing contraction of smooth muscles of uterus and udder, respectively, is unfortunately being used by farmers to get more milk for higher profits, without realizing its harmful effects not only on their animals but also on the consumers of milk. *Farmers are using oxytocin injection before milking almost twice a day in cattle and buffaloes without any veterinary advice or supervision, as the injections are easily available even in small villages.*

The use of Oxytocin by the farmers originally started for therapeutic purposes when the farmers used it for problem animals or to ease out calving and placenta removal. It soon led to its misuse for 'any time milking' as a tool for increased milk production. The Government placed some trade restrictions which did not work as these hormones were imported and traded in India under disguised names of peptides and certain amino compound and made available to the farmers. The use of Oxytocin in animals is unethical because the action of hormone causes the uterus of the cattle to contract, causing immense pain. Further, this misuse of Oxytocin has also been linked to making of the cows barren sooner, lowering their lifespan, decreased birth rate and lower quality of milk etc resulting in their early culling leading to severe economic losses. Moreover, the use of Oxytocin was not limited to Milking animals only. *Fruit and vegetable growers, traders and farmers are also using it for gaining larger sizes of their produce in short time.* Once the government

banned the sale of this hormone in standard vials as injections, the middle man started to provide it to farmers in an unregulated manner and quantities. This actually aggravated the problem and situation got worsened even more than the pre-ban period. ***The drug has also been reportedly misused among trafficked children to accelerate puberty among girls.***

In order to check this menace, the Government of India has decided to restrict the manufacture of oxytocin in the country and ban its import and export to stop the widespread misuse of the drug in the dairy industry. The curbs are being introduced after attempts to regulate the supply of oxytocin failed. All private manufacturers— about 130 companies have the licence to make the hormone—will be “slowly phased out”, a top government official said. Only a Bengaluru-based state-owned pharmaceutical company will manufacture the hormone in the quantity required for medical purposes, said another government official. Oxytocin will be made available only to hospitals and sale of the hormone by private entities will be banned, the official said. To ensure there is no misuse, oxytocin will be supplied in barcoded packages. Maneka Gandhi, minister for women and child development, had been pursuing a ban on the sale and manufacture of Oxytocin. The ministry of health will shortly issue formal orders in this regard, government sources said.

Veterinarian in general would welcome this decision of the Government to curb the misuse of Oxytocin by putting restrictions on its manufacture, imports, distribution and trading etc. However, a mail received from the Chief Thinking Officer of Suruchi Consultants Noida in March has stated candidly that the Indian Government showed both a soft and hard approach in policy making. On one hand it got too hard on trade of oxytocin in India while on the other hand it relaxed the norms of cattle trade in India by making it convenient for farmers to bring animals to be disposed off for non agricultural purpose. It further says, “I never looked at the role of hormones in growth in milk production in India. We are not living in a country where high productivity in milk production might be attributed to use of some regulator's approved hormones.”

With regard to the current Government notification, it may possibly end the era of this ‘Any Time Milking’, but would it have any impact on milk production in India? It is felt that as the total percentage of milk produced using this hormone is more skewed towards urban and peri-urban areas, rather than the core of rural India at cooperative levels, the impact may not be too severe. However, the possibility that such a ban may result in an upsurge in milk adulteration so as to meet the demand-supply gap that may occur due to non/lesser-usage of the hormone or its substitutes. It is high time for a regulator to gear up with its system to look at the possible increase in the incidents of production of synthetic milk. ‘Safe milk mission’ is every one's responsibility. Let us ensure the provision of safe milk to everybody in India latest by 2025.

**SEE LATEST UPDATES /ADDITIONS BELOW:**

## 1. India bans imports of hormone oxytocin to halt misuse in livestock industry

India banned imports of the hormone oxytocin to stop its misuse in the livestock industry, where activists say it causes hormonal imbalances and shortens the lives of milch animals. The government also asked customs officials to step up vigilance against those likely to try and smuggle oxytocin into India, the customs agency said in a notice on its website. The government has decided to rely on domestic production to satisfy requirements of the hormone, the Central Board of Excise and Customs added, ordering an immediate ban on imports, whether for human or animal use. The drug's abuse in animals in India shortens their lives and makes them barren sooner, Women and Child Development Minister Maneka Gandhi has said. (Reuters)

NOTE: India halted retail sales of the prescription-only drug in 2014, but regulators have struggled to curb illegal sales, and the volume of imports is unclear. to clamp down on factories that produce the hormone in bulk despite not meeting manufacturing standards. A panel of top drug experts had recommended an import ban in February, the minutes of their meeting, posted on the drug regulator's website, show. It also recommended that sale be limited to registered government hospitals and clinics, a bar code system used on all forms of the drug to ensure tracking and prevent abuse.

## 2. Manufacturers protest against ban on imports of Oxytocin

Domestic drug firms have come out strongly against a government proposal to regulate the controversial but life-saving growth drug oxytocin. Companies manufacturing oxytocin say the availability of the drug will be severely hit if the government restricts its manufacture to only one company in its drive to curb the misuse of the drug by dairy owners and farmers, who use it to boost milk production and increase the size of vegetables. The Central Drugs Standard Control Organization (CDSCO) proposes to regulate the supply of oxytocin injection to only one manufacturer, a move that would hit other domestic manufacturers. With drug firms and pharma lobby groups raising their objections, the matter of how to ensure effective regulation and restriction on manufacturing and sales of oxytocin will now be taken up by the government's think tank NITI Aayog, along with experts from the ministries of agriculture, health, science and technology, and the department of revenue.

Prof. Dr. R.N. Kohli,  
Honorary Editor, NAVS (India)  
[rnkohli@gmail.com](mailto:rnkohli@gmail.com); 011-46065021; 9968920200

**There is only one way to avoid criticism:  
Do nothing, say nothing, and be nothing.**

**Aristotle**

#### **4. LETTERS TO THE EDITOR**

Dear Dr. Kohli, Sir: Now you are chief editor of NAVS since last 10 years uninterrupted. During this period four executive committees and four presidents have changed but you are continuously working and taking the Academy to New heights despite your age. Sir, because of you the Academy is stable. I pray Almighty God to give you strength in your long future life. You are serving the Academy for the sake of Veterinary profession without any personal gain. Thanks Regards.

Prof. Dr. Prem P. Gupta, <[drpgupta41@gmail.com](mailto:drpgupta41@gmail.com)>

Dear Dr. Kohli: .....I appreciate your dedication and selfless service (NIS-SWARTH SEVA). Warm Regards: Maj. Gen Shri Kant, ASVM, President, NAVS (India); <[shrikant28@hotmail.com](mailto:shrikant28@hotmail.com)>

Dear Dr Kohli: Thank you very much for sending the April 2018 Issue of NAVS Newsletter which was not only on time but covers important events, WVD theme and celebration, personnel, policy, problems and concerns in India and abroad related to Veterinary and Animal Sciences, and One Health, etc. I congratulate you bringing out the Newsletter so meticulously and serving the profession. With best regards: Prof. (Dr.) M. P. Yadav, Editor, Agricultural Research; President, IAVMI and Former President NAVS (India) Email ID: Mahendra Pal [Yadav<yadav\\_mp@hotmail.com>](mailto:yadav_mp@hotmail.com)

April, 2018 Issue of NAVS Newsletter is a “greatly improved Newsletter”  
Prof. Dr. Amreek Singh, Former Professor Emeritus of Microscopic Anatomy, Atlantic Veterinary College, University of Prince Edward Island. Present Contact in Ontario, Canada: Telephone Residence: +011-902-892-0048; Email ID: [singh@upei.ca](mailto:singh@upei.ca)

Dear Dr Kohli: The latest issue of NAVS Newsletter is the result of your unusual untiring efforts. I appreciate your devotion from the core of my heart. Keep it up. The issue was filled with some unexpected and some expected information. I am delighted to learn about the institution by the NAVS of an award in the name of its founder President Dr. C.M. Singh. The Memorial Award is for Excellence in Veterinary Sciences and for overall outstanding contributions of the nominee to veterinary sciences. Congratulations to the NAVS (India).

I am deeply distressed at the demise of Dr. S.P. Singhal, a well known veterinarian, academician and the former Professor of Animal Production Physiology at CCS HAU, Hisar. He was a dear teacher and colleague and I enjoyed his company. I join the family and fraternity in praying the almighty God for his soul to rest in peace. What delighted me most was your piece on prevention of Alzheimer’s disease. I quote the suggested unusual exercises: - Use the watch on the pulse opposite to the one that normally uses it. - Brush the teeth with the opposite hand. - Walk around the house,

backward (in China, this routine is practiced in the parks). - Dress with your eyes closed. - Stimulate the palate with things of different flavors. - See the photos, head down (of the photos, or yours). - Look at the time, in the mirror. - Change the routine path to go and return home. Many thanks for the information and the NAVS. With kind regards:

Dr. R. S. KHANNA, <[dr.rskrsk@gmail.com](mailto:dr.rskrsk@gmail.com)>

Respected Prof Kohli: Received the NAVS Newsletter thankfully today. It is very informative. The pictures of other heads of states on road and our CM are very contrasting. Who says our country is poor? Warm regards,

Prof. R.K. Pandit. Email ID: Rajtendra Thapliyal <[thapliyal3@gmail.com](mailto:thapliyal3@gmail.com)>

Respected Dr Kohli: While thanking you for sending me the April 2018 issue of NAVS Newsletter, let me confess that I always look forward to go through it as usual whenever new newsletter from your office is delivered with informative articles, views, news, and relevant information. With best regards:

Dr Shivang Swaminarayan, Member-Central Council of Research in Homoeopathy, Ministry of AYUSH, Government of India: Postal address: F Block, T-411 SoBo Centre, 3rd Floor, Nr Sun City, Bopal, Ahmedabad-380058, Gujarat; Email ID: [shiv.on.mobile@gmail.com](mailto:shiv.on.mobile@gmail.com); M#+91-9898200557

Thanks Dr. Kohli for a very informative, well presented and well explained NAVS Newsletter (April 2018 issue). Do you know that Dr RPS Tyagi breathed his last on 31-03-18 at Hisar? Dr. S. P. Gautam, Gurugram NCR;

Email ID: <[sp\\_gautam2000@yahoo.com](mailto:sp_gautam2000@yahoo.com)> Phone: +91 9891678342; twitter #AnimalSociety;

## Editor's Thank You

This is to thank the readers who have often been expressing their appreciation for my work as the founder Editor of the Academy for about a decade in very generous and kind words and for always wishing me for my well being and longevity. I highly value, respect and appreciate their genuine feelings towards me and my work. Factually, that is what lets me tide over some of the personal hurdles that occasionally arise and allow me to keep going. I would have crossed 85 before the next issue reaches you. But I am still learning. In the words of Jiddu Krishnamurti: "There is no end to education. It is not that you read a book, pass an examination, and finish with education. The whole of life, from the moment you are born, to the moment you die, is a process of learning" I have learned that people will forget what I said or did, but will not forget how I made them feel. I am happy and grateful that I have been able to make at least some of you (readers) feel good. God bless you all.

## **5: FROM THE PRESIDENT'S DESK**

### **Combating Zoonoses under One Health**

Worldwide, an estimated 60-70% emerging infectious diseases in humans are zoonoses and of these, 13 zoonoses are responsible for a



staggering 2.2 where the correlation between rates of protein malnutrition and incidence of endemic billion human illnesses and 2.3 million deaths per year. These can be transmitted directly by contact with animals (e.g. Rabies) via contaminated environment (Anthrax) via food (Campylobacteriosis) or indirectly via vectors like mosquitoes/ticks/fleas (West Nile Fever, Lyme disease, Rift valley fever, Japanese encephalitis, *Yersinia pestis*) mostly in low and middle income groups zoonotic diseases is approximately 99%. Diseases like brucellosis have become endemic in India. Recent outbreak of

Nipah virus has further highlighted the role of animals in transmission of diseases to humans. Climate, ecological changes and population dynamics are further aggravating the chance of acquiring zoonotic diseases like Ebola and HIV. Of the 1,415 pathogenic sp. of viruses, bacteria, fungi, protozoa and helminths affecting human, 868 (61%) are known to be zoonotic. Out of 177 emerging and re-emerging pathogens, 130 (73%) are known to be zoonotic.

The greatest burden on human health and livelihood, amounting to about one billion cases of illness and millions of death every year is caused by endemic zoonoses around the globe. Veterinary profession has an increasingly important role in global health, food security and developmental goals as proposed by a high level UN panel. Strategic interventions are required for better collaboration between medical, veterinary, agricultural, social, environmental and wildlife scientists. Veterinary profession intersects with all these disciplines. It is the right opportunity to promote the concept of One Health with particular reference to International Health Regulation (IHR) and performance of veterinary services (PVS) pathway as proposed by WHO and OIE, respectively. These need to be implemented practically at all levels to achieve health for all.

Since human medicine often does not delve deeply into the role of animals in the transmission of zoonotic diseases and Vet. Medicine does not cover the clinical aspects of human diseases, zoonotic disease control requires involvement of both professions and One World One Health is apt for control of such diseases. Veterinarians have expertise in animal welfare, food safety, environmental protection and public health. They work all over the world, in all types of fields, helping to ensure the health of animals and people. NAVS (I) is of strong view that Government of India needs to take a policy decision for involvement of Veterinarians at different levels to prevent and control these emerging threats to human health.

Maj. Gen. (Retd.) Dr. Shri Kant Sharma, SM, VSM:  
[shrikant28@hotmail.com](mailto:shrikant28@hotmail.com)



## 6: VET TRACKS

### 6-A. OBITUARY

#### 6.A.1: Dr. R.P.S. Tyagi- A Doyen of the Profession Passes Away

**Dr. Raj Pal Singh Tyagi, Former Vice-Chancellor Himachal Pradesh Agricultural University, Palampur (1993-1998); Former Member, Agricultural Scientist Recruitment Board (1987- 1993); Former Dean College of Veterinary Sciences, PAU/HAU,**

**Hisar. and Former Professor-cum- Head, Department of Veterinary Surgery and Radiology PAU/HAU, Hisar (1964-1977) left for his Heavenly Abode on 31st March, 2018. He was not keeping well for a couple of years.**

**Dr. Tyagi was born on 19<sup>th</sup> January, 1933, in Narangour village in District Meerut of Uttar Pradesh. Soon after his B.V.Sc. & A.H. from Agra University, he went to USA and got his Master's Degree from Michigan State University and PhD. from University of Minnesota. During his stay in USA, he was a member of Phi Zeta and Sigma Xi.**

**Upon his return to India in 1964, he joined as Professor-cum-Head of the Veterinary Surgery Department at Veterinary College, Hisar, which had by then become a constituent college of the newly established Punjab Agricultural University (PAU) - the second such university established in India, after UPAU, Pantnagar, U.P. (now Uttarakhand). The Veterinary College, Hisar, became a part of HAU upon the formation of Haryana Agricultural University. Dr. Tyagi has the distinction of serving the University as Dean (Veterinary College), Director of Research and Dean, Post Graduate Studies for over 21 years.**

**While serving the profession on several positions of distinction, Dr. R.P.S. Tyagi published 200 scientific papers in national and international journals and advised 13 Ph.D. and 18 M.V.Sc. students. He was the first in India to start a PhD. programme in Veterinary Surgery and was the Founder President of Indian Society for Veterinary Surgery and Vice-President of Veterinary Council of India. In 1997 he was awarded the coveted Rafi Ahmed Kidwai award for outstanding research, besides having won several other awards during his career.**

**Dr. R.P.S, Tyagi was a mentor, guide and teacher of many eminent present day veterinarians in whose lives he played the role of a torch bearer. a large number of them have paid prolific tributes to him on the social media. I lost count of "LIKES" and "COMMENTS" on the various posts related to his demise but I can safely say that their numbers were the largest I have seen so far. The pathos and grief are immediately palpable in the following words that his daughter Dr. Rashmi Tyagi posted:" MY FATHER DR R P S TYAGI LEFT ME ALONE TODAY TO BE WITH GOD AND GURUS...PLEASE PRAY FOR HIM". Close to 700 persons had reacted to her post before I started filing this Obituary. This is the measure of popularity of the Tyagi Family in the profession.**

Apart from being a great veterinarian, administrator, educationist, an icon, apostle epitome and doyen of the Veterinary Profession, he was a very good human being who also contributed immensely to the veterinary profession. He was at the helm of Veterinary Education during the period when our education system was at Cross roads. His contributions should be compared to the guiding light that always appears in difficult times.

The Governing Council of the National Academy of Veterinary Sciences commenced its recent meeting after observing a 2-minutes' silence in the memory Dr. Tyagi. The Academy joins the other organizations, institutions and individuals in praying the Almighty to grant peace to the departed soul.

Upon his return to India in 1964, he joined as Professor-cum-Head of the Veterinary Surgery Department at Veterinary College, Hisar, which had by then become a constituent college of the newly established Punjab Agricultural University (PAU) - the second such university established in India, after UPAU, Pantnagar, U.P. (now Uttarakhand). The Veterinary College, Hisar, became a part of HAU upon the formation of Haryana Agricultural University. Dr. Tyagi has the distinction of serving the University as Dean (Veterinary College), Director of Research and Dean, Post Graduate Studies for over 21 years.

While serving the profession on several positions of distinction, Dr. R.P.S. Tyagi published 200 scientific papers in national and international journals and advised 13 Ph.D. and 18 M.V.Sc. students. He was the first in India to start a PhD. programme in Veterinary Surgery and was the Founder President of Indian Society for Veterinary Surgery and Vice-President of Veterinary Council of India. In 1997 he was awarded the coveted Rafi Ahmed Kidwai award for outstanding research, besides having won several other awards during his career.

Dr. R.P.S. Tyagi was a mentor, guide and teacher of many eminent present day veterinarians in whose lives he played the role of a torch bearer. a large number of them have paid prolific tributes to him on the social media. I lost count of "LIKES" and "COMMENTS" on the various posts related to his demise but I can safely say that their numbers were the largest I have seen so far. The pathos and grief are immediately palpable in the following words that his daughter Dr. Rashmi Tyagi posted: "MY FATHER DR R P S TYAGI LEFT ME ALONE TODAY TO BE WITH GOD AND GURUS...PLEASE PRAY FOR HIM". Close to 700 persons had reacted to her post before I started filing this Obituary. This is the measure of popularity of the Tyagi Family in the profession.

Apart from being a great veterinarian, administrator, educationist, an icon, apostle epitome and doyen of the Veterinary Profession, he was a very good human being who also contributed immensely to the veterinary profession. He was at the helm of Veterinary Education during the period when our education system was at Cross roads. His contributions should be compared to the guiding light that always appears in difficult times.

The Governing Council of the National Academy of Veterinary Sciences commenced its recent meeting after observing a 2-minutes' silence in the memory Dr. Tyagi. The Academy joins the other organizations, institutions and individuals in praying the Almighty to grant peace to the departed soul.



## **6-A.2: Dr. D.S. Kalra is No More**

Eminent veteran Veterinary Pathologist (Former Dean), Dr. D.S. Kalra passed away in the night between 18<sup>th</sup> & 19<sup>th</sup> April 2018, at Hisar (Harana).

Dr. Dharam Sarup Kalra, was born on 22<sup>nd</sup> Dec 1922 in Bhakkar village of Mianwali District (now in Pakistan). After his Intermediate from Rawalpindi in 1942, he joined the Lahore Veterinary College and got B.V.Sc. degree in 1946 from (Panjab University) and joined the same college as a Demonstrator of Pathology, Bacteriology and Parasitology. After partition, Dr Kalra was appointed in the same capacity at Veterinary College Hisar. He was awarded M.V.Sc. degree in Solan on the basis of his work as Research Asstt. under Mastitis Research Scheme. In August 1957, he was appointed as ADIO and later in May 1960, as Asstt. Professor of Pathology and Bacteriology. In Sept. 1963, he was deputed to Ohio State University, Columbus (USA) for higher studies and was awarded Ph.D. degree in March 1966 with a GPA of 4.0/4.0 and was also conferred the membership of the Society of Phi-Zeta.

On return from USA in March 1966, he was appointed as Associate Professor-cum-Head of the Department of Public Health. In April 1968 he became the Professor of Pathology and in June 1972, elevated to the post of Senior Professor. In Sept. 1979 he was appointed as Dean, college of Veterinary Sciences, Hisar. In Jan. 1980, he went to Iraq as a visiting Professor in the University of Baghdad and remained there up to June 1983. He guided three M.V.Sc. students.

After superannuation in 1984, he accepted an academic assignment as Professor-cum-Head of Vet. Pathology in the University of Maiduguri (Nigeria) and worked there up to Sept. 1995 to develop the teaching and research facilities and initiate the post graduate program in Vet. Pathology. He guided three students for Ph.D. degree.



Prof. Kalra was actively involved for a long period of 49 years or so in teaching and research. He guided a total of 24 students (12 Ph.D. and 12 M.V.Sc.) and one for post doctoral research in Veterinary Public Health. Some of his students won gold medals and have either retired or are holding high positions.

Prof. Kalra was responsible for initiating the proposal for the establishment of Disease Investigation Laboratories in Haryana State. His main research contributions are in the field of mastitis, mycotoxicosis, horn cancer, pneumonia and brucellosis. He has contributed two books and more than 120 research papers, published in Indian and foreign journals. He has also credit of investigating a disease of unknown etiology (degnala disease), affecting cattle and buffaloes in the rice growing areas.

Prof. Kalra has two sons, the elder one retired as Professor and Head, Department of Animal Breeding & Genetics at HAU, Hisar and younger one is working as Chief Scientist at the CSIR-Central Institute of Medicinal & Aromatics Plants, Lucknow. Dr Kalra settled himself at Hisar and led a peaceful retired life,

providing professional help as and when asked for until April 18, 2018 when he left for his heavenly abode.

NAVS (India) prays the Almighty to grant peace to the departed soul.

### 6-A.3: Dr. R.C. Chhabra is No More

We are deeply saddened by the news of the demise of Dr. R. C. Chhabra, Former Professor-cum-Head, Department of Veterinary Parasitology, College of Veterinary Sciences, P.A.U. (Now GADVASU), Ludhiana, Punjab, on 30<sup>th</sup> January, 2018. Dr. Chhabra had initially joined this Department as Assistant Professor in 1969 and later served it as its Professor-cum-head from 1<sup>st</sup> February 1979 to 31<sup>st</sup> January 1980. He subsequently shifted to Zambia in 1980 and then to Zimbabwe in 1988. On his return from Zimbabwe, he was settled in Dehradun. Besides being an excellent human being, he was an accomplished academician and contributed significantly to the teaching and research in the field of Veterinary Parasitology. We pray for the departed soul to rest in peace. God bless his wife and other members of his extended family.

Let me tell you about  
my visit to the  
"Village of Long Life."



It's a small hamlet in rural northern India where the elders, even those their 70s and 80s, seem ageless. They move around free, unrestricted by pain or crippling disabilities that plague us in the West.

For example, a study of 2,700 elderly Indians from this area showed less than 1% ever suffered from severe cognitive decline. Compare that to America, where the incidence rate is a whopping 33%.<sup>1</sup>

Their secret? For generations, these villagers have eaten **turmeric** on a daily basis.

## **7. VIEW POINT**

### **7.1: Animal Welfare: Some Concepts and Controversies**

**Prof. Rama Kumar V.**

**Former Secretary, Veterinary Council of India**

Human perception of animal welfare varies with one's understanding of or emotional attachment with animals. Social and cultural background can influence this perception. Globally the difference (of perception) exists among animal activists, animal lovers, animal owners and the veterinarians as each of them deal with animals from different angles. Even among veterinarians there could be points of contention between those who plead for species welfare and those who support individual animal's welfare. People may love certain species ie. a lover of cats may prefer to be away from dogs, pigs or cows. Some (individual or community) may favor certain systems of animal rearing, animal habits or habitat. Some venerate certain species, breeds or colour of animals. Sentiment, fads and taboo's on animals is not uncommon. There is need to recognize and resolve varying perceptions when we define cruelty and welfare objectively.

Recent judgments of high courts of different states on Prevention of Cruelty to Animals (Regulation of Livestock Markets) Rules 2017 is an example of such perception. Political upheaval in states more so in Kerala, hiding the fact that there is no ban on slaughtering of animals provided it is done in a hygienic and compassionate manner also need be addressed in public interest. [attention is humbly invited to clause 9(e), Section 11 and section 38 of PCA Act 1960 and Prevention of cruelty to animals (slaughter house) rules 2001]. At least One such prejudiced view, placed before the Hon'ble Supreme Court (perhaps by advocate Mr. Sabu Stephen) is that dog is the only animal prescribed in PCA Act for culling. Another argument justifies illegal culling of dogs in Kerala by comparing it with the innumerable goats and poultry birds slaughtered for food each day. Those who justify illegal culling of dogs withhold the fact that there is no ban on slaughter or 'culling of animals' provided it is done within legal limits and is prescribed in the act for different purposes.

Attitude of man towards animals varies from recognition of pain, stress or discomfort of animals (compassion), to the most negative aspect of it that consider animal as a source of inconvenience to be avoided, segregated or even exterminated. Several intermediate levels may exist within these extreme attitudes. While dislike need not amount to cruelty, love need not result in welfare. *These need be tested scientifically for which the knowledge of Veterinary ethology i.e. animal behavior vis-a-vis human behavior/ is essential.*

Universal Declaration of Animal Welfare (UDAW) calls upon the United Nations to recognize animals as sentient beings, capable of experiencing pain and suffering, and to recognize that animal welfare is an issue of importance as part of the social development of nations. Two major viewpoints exist on animal welfare: (i) One view accepts human exploration of non-human animals for

food, research, clothing or entertainment, so long as unnecessary stress and suffering is avoided. (ii) the second view by the animal rights position holds that animals should not be used or regarded by man a property. Some even consider use of milk as exploitation of the offspring, while some from the same group argue that cow is compared to 'mother' as it gives us milk. The absence of logic and scientific certainty highlights an obvious lack of exclusive research (R&D) on animal resources of India, be it domestic, companion, wild, feral or laboratory animals and birds.

The concern for the well-being of non-human living beings (animals) is part of India's culture. In Rig Veda, one finds mention of animals as part of Indian life and life style. Kautilya's Artha shastra provides strict protocols for the management of animals, their hygienic management. Atharva veda describes use of slaughter houses (underground space or caves) as centres of learning of structure and disease detection. Indus Valley Civilization maintained a religious belief that our ancestors return in animal form. An Ashokan edict written in 'Pali' script on the IX rock edict (300 B.C) collected during excavation reads on its fourth line '*Panesu Saimo*'. The nearest Sanskrit version could be "*sarveshu praaneshu samyamah*" meaning "compassion for living beings". [Barua B.M. (1955) "*Ashoka and his inscriptions*", Calcutta]. Possibly the clause (g) of article 51A (directive principles in chapter IV of the constitution of India) drew inspiration from the system aforementioned. The constituent assembly in its collective wisdom included compassion along protection of natural resources from pollution, mutilation or wastage.

It is important to understand that while a negative attitude need not always amount to cruelty and a positive attitude alone may not result in welfare. A tendency to assume that an animal is under stress or its basic needs remain uncompensated can be subjective, if such observations are not supported by observable and (even) measurable scientific indicators. One cannot objectively measure suffering through physiological parameters and that it has to be linked with behavioral parameters and tested. The indicators such as early detection of behavioral anomalies, study of preferences, ergometric evaluation of animals' ambience, resting place, shelter, accessories used for feeding them or for their comfort etc. indicates glaring lack of research on animal behavior vis-à-vis human behavior. At occasions in the past courts had to depend on small islands of information based on studies on small population. This calls for statutory an animal (veterinary) research council with regional centres synergizing and validating their finding

#### *Love and Sentimentality:*

Behaviour scientists classify positive feeling into love and sentimentality. The former involves interaction (among animals and/ or between animals and man) including indulgence like care giving, care taking, comfort seeking, agnostic behaviour, group behaviour (working as a team) etc. Indulgence enriches the life of both partners involved; it can excite, soothe and (as experts feel) contributes towards self-worth and awareness of self. Sentimentality on the other hand, has a predominance of emotion; it depresses and leaves one (man or animal) confused.

## **8. NATIONAL & INTERNATIONAL VETERINARY NEWS**

### **8.1: World Milk Day Celebrated by Indian Dairy Association**



On the occasion of World Milk Day on June 1, 2018, the Indian Dairy Association (IDA) organized a get-together at its HQ (IDA House), Sector IV, R.K. Puram, New Delhi, to celebrate the same. Thirty professionals from the cooperative milk unions, private dairies, Mother Dairy, Member of Haryana Kisan Ayog, eminent scientists and IDA officials participated in the celebration. Prof. G.S. Rajorhia, President of IDA, presided over the event. Many stalwarts shared their views on the occasion and flagged very important issues for dairy development and role of dairying in nutritional security. Dr. Radhey Mohan Acharya, Former DDG ICAR, and an eminent veteran Animal Geneticist, particularly emphasized the importance of Buffalo in Dairying in India. He said that since most breeds of cattle in India are either draft or dual purpose breeds, **BUFFALO IS THE DAIRY ANIMAL FOR OUR COUNTRY**. Dr. Kiran Singh, Former Director NDRI and DDG, ICAR, dwelled upon the microbial quality of milk, and quality in respect of its constituents. He also highlighted the role of hygienic production of milk and its adulteration with water, chemicals, antibiotics, preservatives and hormones etc. Others who spoke at the occasion included Mr. A.K. Khosla, Vice President-IDA; Prof. (Dr.) R.N. Kohli, Hon. Editor, NAVS (I); Dr. R.S. Gandhi, ADG(AP&B), ICAR; Dr. Shyam Bhaskar, Haryana Kisan Ayog; Dr. Kuldeep Sharma, Director, Kwality Ltd.; Dr. B.S. Beniwal, former General Manager, DMS; Mr. S.S. Mann, Chairman, IDA (NZ); Mr. Gyan Prakash Verma, Secretary, IDA(NZ); Mr. Sharad Gupta, Editor, Dairy India Yearbook; Mr. K.L. Arora, Fellow Member, IDA, and Mr. Sohrab CEO, Qualitycare, among others.

Many other issues that were raised at the meet included incentives to dairy farmers, framing of a dairy animal breeding policy, institutional mechanism for export of milk and milk products, sexing of semen for reduction

of male and increase of female cattle population, A-1 and A-2 Milk, prospects of second White Revolution in the Eastern and Central India, and misnaming of Soya drink as SOYA MILK etc.

At one point during the deliberations, all the delegates raised their glasses of milk as a symbolic gesture **to promote the consumption of milk and milk products and** to wish all a Happy Milk Day (Photo).

Finally the President of IDA, Prof. Dr. G.S. Rajhoria, summarized the proceedings and gave latest information on the matters discussed. He highlighted the nutritional significance and virtues of milk in the Indian diets. He mentioned that some vested groups through Press and Media are trying to discourage the public from consuming milk and milk products by negative publicity. IDA is committed to spread the knowledge among masses about the importance of milk and milk products in daily diets. The participants were informed that term milk as per Food Safety and Standards Regulations cannot be suffixed with any vegetable products like soy milk, almond milk, coconut milk as milk is a mammary secretion obtained from milking animals.

## 8.2: World Veterinary Day (WVD)

India joined the rest of the world in celebrating the World Veterinary Day (WVD) this year. The theme of World Veterinary Day 2018, which fell on April 28, was "The role of the veterinary profession in sustainable development to improve livelihoods, food security, and safety." World Veterinary Day indeed promotes sustainable development.

### History of World Veterinary Day

World Veterinarian Day (WVD) was created by the World Veterinary Association (WVA) in the year 2000 to highlight the wonderful lifesaving work carried out by the veterinarians around the world. In the year 1863, i.e. approximately 150 years ago Dr J. Gamgee, a Professor of Anatomy and Physiology at Edinburgh, The Dick Veterinary College convened a 1st International Veterinary Congress. This initiative has today grown into the World Veterinary Association (WVA). The World Veterinary Association represents and unites the worldwide veterinary profession. WVA is the umbrella organisation for global associations of veterinarians working in various areas of veterinary medicine. The mission of WVA is to reassure and promote animal welfare and health and global public health, through developing and promoting the veterinary profession, the veterinary medicine and also private and public veterinary services. The WVA pursues the ambition of Dr J. Gamgee to bring all the veterinarians around the world together, to share ideas and to join them all together for the development and advancement of veterinary medicine. The main aim of World Veterinary Day is to raise awareness about animal health and welfare so every year a different theme is selected by the WVA and OIE (Organisation for Animal Health) and these themes help the pet owners to recall the importance of various aspects of animal care and how veterinarians can help.

The WVA and OIE confer the World Veterinary Day Award for the best contribution on the annual theme by a WVA member association working alone or with other veterinary groups. The National Council of the Order of Veterinarians of France won the last year's (2017) World Veterinary Day Award for extensive contributions in this area revolving around participation in France's plan to reduce the risks of antimicrobial use in veterinary medicine. The theme for the World Veterinary Day Awards 2018 is the role of the Veterinary Profession in Sustainable Development to improve livelihoods, food security and safety. The competition was open to all WVA member associations, alone, or in cooperation with any other selected body. The winner of the World Veterinary World 2018 was scheduled to be announced on 15th June 2018.

#### World Veterinary Day Celebrated by ICAR-National Dairy Research Institute, Eastern Regional Station, Kalyani, West Bengal, India

World Veterinary Day was celebrated on 28th April, 2018 by the ICAR-National Dairy Research Institute, Eastern Regional Station, Kalyani, Nadia, West Bengal, India with the theme of "The role of the Veterinary Profession in Sustainable Development to improve livelihoods, food security and safety" to discuss about the role of Veterinary professionals for sustainable livestock development in India. The programme was organized at the ICAR-NDRI, ERS, Kalyani campus with seminars, exhibition and students'-scientists' interaction on the theme area.

Approximately 60 people including Students, Veterinary Officers, Scientists and technicians attended the celebration. Various programmes like expert lectures and students-scientists' interaction on issues on sustainable livestock production, integrated livestock farming, food safety, future demands for animal protein for ever increasing human population, environmental concern, kindness towards animals, role of world veterinary association and veterinary education in India have been organized.

#### World Veterinary Day 2018 Celebrations in in Uzbekistan



On May 6, 2018, Uzbekistan hosted the Second Uzbek Veterinary Conference in connection with the World Veterinary Day, attended by more than 1000 veterinarians throughout the country, as well as representatives of the Parliament, Governments and various ministries and departments. as well as the experts of the OIE.

Since 2017 on June 1, the Ministry of Veterinary Medicine of the Republic of Uzbekistan was established as a state veterinary committee and in the report of Chairman (Minister) of Veterinary Medicine of Uzbekistan Bakhrom Norkobilova noted the role of the profession of veterinarian in the sustainable development of improving living standards, providing food and food safety. Also, in the framework of the conference, the best veterinarians, scientists, veterinary institutions, journalists who contributed to the development of the veterinary service of Uzbekistan with the "Golden Horse" award were awarded, which is being awarded for the second time.

### **SKUAST - Jammu celebrates World Veterinary Day**



JAMMU, Apr 27: Faculty of Veterinary Sciences and Animal Husbandry, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu celebrated World Veterinary Day, 2018 at R.S. Pura Campus. Dean, FVSc & AH, Professor M.M.S. Zama read the welcome address and highlighted the importance of this day. He congratulated the veterinarians and requested the fraternity to work with zeal and zest for the betterment of this profession. He further said that veterinarians are the best doctors in the world as they treat speechless creations of God. Prof K.S. Risam, Director Extension, SKUAST-Jammu was the chief guest on the occasion. He also congratulated the faculty members and students on this day and asked them to work with dedication and honesty. He said that the role of veterinarians is immense towards the development of the society. On this occasion, free anti-rabies vaccination programme was held at Teaching Veterinary Clinical Complex under the supervision of Prof J.S. Soodan. Professor Sunil Kumar delivered a theme lecture on, "the role of Veterinary Profession for sustainable development to improve livelihood, food security and safety of the people".

The programme was followed by a professional quiz competition, extempore, cultural programme and prize distribution ceremony. The formal vote of thanks was presented by Prof M.A.Malik. Dr. H.R. Bhardwaj was the convener of the full day event. All heads of divisions, teaching and non-teaching staff and students were present on the occasion.

For more information on World Veterinary Day:

<http://www.worldvet.org/news.php?item=364WorldVeterinaryAssociation>



### 8.3: Annual General Body Meeting of US VETS of Indian Origin

According to a Press Release, the Annual General Body Luncheon meeting of the American Association of Veterinarians of Indian Origin (AAVIO) was held recently at Double Tree Hotel Hilton in West Plymouth, a suburb of Philadelphia, Pa. Veterinarians practicing in different fields of clinical Medicine, Research, & Academia, participated in the function. Dr. Hernandez-Lopez & Samantha Chu of Merck Corporation of Veterinary Health Division gave a brief but exciting seminar on ecto-parasites.

Dr Raj Khare Senior Advisor of AAVIO introduced the new Executive Board of 2018- 19. Dr. Ravi Murarka, President, shed light on the Future plans of the Association.



From Left :- (Drs.) Raj Khare (Sr. Advisor), Ravi Murarka (President), Narendar Khainey (Treasurer), Jyothy Surendran (Director), C.R. Bhatia (Vice President), Shailesh Patel (Gen.Secretary) , and Anjali Bandekar (Director)  
(Note: (Drs.) Bala Dodda and Mohan Ramanathan (Directors) are not in the Picture).

During the meeting, Dr. Chirayu Goswami was nominated as a liaison between India based Veterinary Graduates & the organization to help & guide in their process to qualify for North American Veterinary Licensing Examination. His contact Cell Phone Number is 317-966-2774 and E-mail ID is [Chirayugoswami@mail.com](mailto:Chirayugoswami@mail.com).

At the end Dr. Jyothy Surendran proposed a vote of thanks.

### 8.4: 91st foundation day: Students' stir in Bihar Vet. College

PATNA: Bihar Veterinary College students boycotted the 91st foundation day celebrations of the college held on Monday to press for their demands, including hike in scholarship and stipend and removal of the dean. A second-year PG student claimed all the college students boycotted the function. To escape embarrassment, the college administration called 30 students from the Sanjay Gandhi Institute of Dairy Technology at Patna to attend the function, he alleged. (Times of India: [Faryal Rumi](#) | TNN | Updated: Apr 4, 2018, 13:43 IST)

### **8.5: Farmers' Conclave at ICAR-NIANP, Bengaluru**

The ICAR-National Institute of Animal Nutrition and Physiology in collaboration with all the ICAR institutes located in Bengaluru organized the "Farmers' Conclave" on 16 and 17 February, 2018. The mega event was coordinated by Dr Raghavendra Bhatta, Director, ICAR- National Institute of Animal Nutrition and Physiology, Bangalore. The two day conclave was attended by more than 1500 farmers, and delegates from different ICAR Institutes and KVKs located in Karnataka.



Union Minister of Agriculture and Farmers Welfare, Shri Radha Mohan Singh, Union Minister of Statistics and Programme Implementation, Shri DV Sadananda Gowda, Union Minister of Skill Development and Entrepreneurship, Shri Anant Kumar Hegde, Union Minister for Parliamentary Affairs and Chemicals and Fertilizers, Shri Ananth Kumar, Secretary, DARE and Director General, ICAR, Dr Trilochan Mohapatra and DDG (Agricultural Extension), ICAR, Dr AK Singh attended the inaugural function of the event and graced the occasion. Director General, ICAR, Dr Trilochan Mohapatra after welcoming the Hon. dignitaries highlighted the contributions of various ICAR institutes in Karnataka.

Shri Radha Mohan Singh in his address urged that encouraging the young generation towards agricultural activities and increasing the farmers' income from small holdings are the major challenges of the Indian agricultural sector at present. He also mentioned that although the task is herculean, but it is not impossible if the technocrats, bureaucrats and politicians work together dedicatedly towards the targeted goal.

Addressing the gathering, Shri Anant Kumar Hegde and Shri Ananth Kumar mentioned that water is a scarce resource in Karnataka and therefore, appropriate policies are required to be implemented at the earliest to introduce and popularise profitable dry land agricultural practices in the State.

A series of publications, CDs from different Institutes and two products - Harit Dhara, an anti-methanogenic feed supplement and a special bull mineral mixture developed by ICAR- NIANP, Bangalore were released during the occasion. During the Conclave 50 exhibitions stalls were setup by the ICAR Institutes and KVKs to display various technologies and products related to agriculture, animal husbandry and fisheries. Scientists-Farmers interactive meets on different aspects of agriculture and animal husbandry were also held on both days of the Conclave.

### **8.6: SAARC Regional Training Programme organized at ICAR- NIANP, Bangalore**

ICAR- National Institute of Animal Nutrition and Physiology organized a Regional Training Programme on *Animal Feed and Nutrient Analysis* for SAARC countries sponsored by the SAARC Agriculture Centre, Bangladesh from 9-14 May 2018. The inaugural function was held on 9<sup>th</sup> May. The hands- on- training included proximate analysis of feed and fodders, quality control and safety measures for animal feeds, feed microscopy, estimation of macro and micro minerals, Aflatoxin analysis, lignolytic enzyme production etc.

Dr Raghavendra Bhatta, Director, NIANP and course director gave an overview about the current programme as well as the various training programmes being organized at ICAR- NIANP. Dr Nure Alam Siddiky, the programme coordinator of SAARC Agricultural Centre (SAC), Bangladesh highlighted the livestock



wealth in SAARC region and the challenges faced by the livestock sector such as scarcity of quality raw materials, climate change etc. He also briefed about the various activities of the SAC. Hon. DDG (AS), ICAR Dr Joykrushna Jena was the Chief Guest of the inaugural function. In his address, he emphasized the need for collaboration among SAARC countries in areas of mutual interest. He also stressed on the importance of quality and safety of animal feed ingredients and the final products. He spoke on the importance of application of latest technologies in ruminant production, similar to that followed in the poultry sector. Dr V Sridhar, General Manager (AN), NDDDB, Anand, the Guest of Honour of the inaugural Function briefed about the various activities of NDDDB, including the Quality Mark. He mentioned that quality of ingredients contributes 60 % and the processing accounts for 40 % of the final product. 15 participants from Bangladesh, Bhutan, Nepal, Sri Lanka and India are participating in this training programme.



## 9. SCIENCE, HEALTH & SOCIETY

The health information included in this publication, unless stated to be otherwise, has not been evaluated by the Food & Drug Administration or any other medical body. We do not aim to diagnose, treat, cure or prevent any illness or disease. Information is shared for educational purposes only. You must consult your doctor before acting on any content.

### 9.1: World's Top Intelligentsia in One Picture

This may perhaps be one of the rarest of pictures in which maximum number of world's top intelligentsia are captured in a single photograph.



This is the photograph of the participants of the 5<sup>th</sup> Solvay Conference on Quantum Mechanics, 1927, which ,among others, include: Albert Einstein, Marie S. Curie (the only woman in the conference) and Niels Bohr. Seventeen of the 29 attendees were or became the Nobel Prize winners.

## 9.2: Medical council cracks whip on errant doctors

HYDERABAD: The Telangana Medical Council executive and general body meeting on Wednesday took several decisions to rein in errant doctors, including suspension of a psychiatrist.

Council chairman Dr E Ravindra Reddy, in a press note on Thursday, said, "Dr Sona Kakar, a psychiatrist and psychotherapist of Columbus Hospitals in Begumpet, was suspended for six months acting on charges leveled by one T Harita Reddy. The complainant opted for couple counseling for her marital discord, but Kakar had never given the couple counseling and instead has taken a unilateral decision of giving 21 sessions of individual counseling with no positive result. Harita Reddy also alleged that Kakar has not given them couple counselling for which they have enrolled and this lead to irrevocable repercussions on them and cost them money and kept their lives on hold. Kakar has failed to provide them with the video footage of counseling. Due to this unfair and unethical practice, Dr Sona Kakar was suspended for six months." .TNN | June 08, 2018, 06:05 IST

## 9.3: National Health Protection Scheme

The Union Budget 2018 witnessed the announcement of a mega healthcare programme for the poorest segment of the society. Two new initiatives have been announced under the state-run scheme of Ayushman Bharat Programme. The new initiative named "National Health Protection Scheme" will provide health insurance coverage worth Rs.5 lakh per year for about 10 crore vulnerable families in the country. It is estimated that about 50 crore individuals will benefit from this grand scheme, which is commonly dubbed as 'Modicare'. Finance Minister Arun Jaitley also announced the development of over 1.5 lakh health and wellness centers that will provide free medications and diagnostic services for poor families.

(BUDGET 2018 <[info@em.fantasticindiaa.com](mailto:info@em.fantasticindiaa.com)>)

## 9.4: High Blood Pressure: Reducing Max Values & Other Factors

If you already have high blood pressure, you're not alone! Currently, about 70 million adults in the US alone struggle with the condition: about 1/3 of adults. And another 1/3 of US adults have elevated blood pressure and at risk of having hypertension. This is because blood pressure maximum values have been reduced over the years. In the 1980s, a normal blood pressure was up to 100+ your age. If you were 65, it was 165. Now, the American Heart Association just set the limit to 130. This makes millions of people great candidates for medication.

Of course the psychological factors and the stress of our modern life also play a huge role in causing hypertension. The diet also plays a big role, but often it is easier to control our diet than our stress. Several recent studies have shown that high sodium levels in the diet correlate (which means they don't cause it but are observed together) with an increased risk for high blood

pressure. However, potassium helps compensate the effects of sodium. This means that you could both reduce and prevent high blood pressure by eating more potassium rich foods. It is quite easy, sometimes much easier than reducing your sodium intake. One of the researchers who conducted the study has said that “Potatoes, bananas, avocados, leafy greens, nuts, apricots, salmon, and mushrooms are high in potassium, and it's easier for people to add things to their diet than to take away something like salt.” Another benefit of potassium in your diet: it is also associated with bone health and may help prevent osteoporosis. This is because the potassium in fruit and vegetables helps alkalize your body and prevent calcium from being eliminated in urine, which causes bone loss.

#### **RELATED NEWS**

As per recent news, European Society of Cardiology (ESC) has changed Blood Pressure baseline to 140/90 mm/Hg from existing 130/80, leaving cardiologists in India to major debate. Following this the Cardiology Society of India has taken a stand that it will be 130/80 mm/Hg for those below 60 years of age and 140/90 mm/Hg for those who are older. The baseline remains 130/90 in USA.

### **9.5: PRP Stem Cell Therapy to Re-grow Your Hair**

The real source of healthy hair lies in your *follicles*. The hair follicles control how full and vibrant your hair is. Thus the only way to revive your hair is to start at the roots. None of today's remedies have worked because they completely miss this point. In fact, they've got it wrong since the beginning of history. Ancient Egyptians boiled porcupine hair in water and applied it to the scalp for four days. Hippocrates prescribed a concoction of opium, horseradish, beetroot, spices, and pigeon droppings. Julius Caesar rubbed ground-up mice teeth, horse teeth, and bear grease on his head. But now there's a real 21st century cure for hair loss. It's called PRP stem cell therapy and is being used to help the patients re-grow hair naturally.

As you know, stem cells are your master cells which can turn themselves into any other kind of human cell including the cells that build your heart muscle, blood, liver and nerves. They even turn into hair follicle cells. In fact, a small group of stem cells can reproduce many times to generate billions of hair cells. Studies prove stem cell therapy with PRP is effective for baldness<sup>1</sup>. PRP uses platelets and growth factors to heal every part of your body. Your biggest supply of stem cells is stored in your body's own fat tissue just below your skin in your abdomen, thigh or buttocks. For hair re-growth, these stem cells are harvested from your fat and centrifuged to separate the stem cells from the fat tissue. This rich supply of stem cells is injected into the scalp with two to six PRP injections (under local anesthesia). Right away, the stem cells start waking up hair follicles. They start regenerating. Soon they are producing healthy, strong hair. Those who would like to learn more about stem cell PRP for hair loss, please call 561-784-7852 (South Florida). The staff at the Sears Institute for Anti-Aging Medicine will be happy to answer all your questions.

## 9.6: Fenugreek Nourishes and Grows Thicker Hair

An Indian Spice, **Fenugreek (*Trigonella foenum graecum*)**, offers to amazingly transform your hair for the better. It stimulates stem cells to nourish and grow thicker hair in women. You know that the seeds and leaves in the fenugreek plant contain nicotinic acid (also a precursor to NAD+). What you may not know is that niacin is a vasodilator. So it expands your blood vessels... part of the pipeline that supplies stem cells with nutrients. This stimulates blood flow to the tiny capillaries that feed your hair roots.

*Fenugreek seeds* are 24% protein. Your body uses protein as a building block for healthy hair and fenugreek's high-protein levels help rebuild and strengthen the entire hair shaft. Add ground fenugreek seeds to your cooking and salads. It's also available as a supplement to be taken 500 mg a day. However, some doctors prefer to apply it directly to the scalp. Mix fenugreek seed powder with coconut oil to form a paste. Apply the mixture to your scalp. Massage it in for 5-10 minutes. Rinse it out. Repeat this daily. In several weeks you should notice new hair growth.

Two other Herbs are also used these days for Lustrous Hair

1. **Saw Palmetto (*Serenoa repens*)**. Saw palmetto is rich in beta-sitosterol. It inhibits the formation of DHT, the hormone responsible for male pattern baldness. A study in the *Journal of Alternative and Complementary Medicine* examined people between the ages of 23 and 64 with hair loss. The people received either beta-sitosterol or a placebo. A whopping 60% of the people receiving beta-sitosterol had improved hair growth. They also lost less hair than the placebo group.
2. **Black Cumin Seed Oil**. Like saw palmetto, the oil from black cumin seed (*nigella sativa*) is rich in beta-sitosterol. In one study, a group of people were treated with black cumin seed oil for three months. Results showed 90% of the black seed group had increased hair thickness compared to only 7% in a placebo group. Look for black cumin seeds at health food stores or online. But don't get them confused with the common kitchen spice cumin. They come from totally different plant families. Use them like any other spice. You can also find oil pressed from black cumin seeds. Look for organic 100% pure black seed oil. You can rub it into your hair and scalp.

## 9.7: Delhi agrees to Ayushman Bharat, to sign MoU soon

The decision follows months of uncertainty whether the Arvind Kejriwal-led Aam Aadmi Party government will implement the scheme as it had been at loggerheads with the Centre over powers of governance. The Delhi government has decided to participate in the Centre's health insurance scheme, Ayushman Bharat-National Health Protection Mission (ABNHPM), and is likely to sign an agreement next week.

## **9.8: The recreational marijuana era is officially underway in Massachusetts.**

Officials at the Cannabis Control Commission Thursday afternoon granted the state's first-ever recreational marijuana license to a cultivation facility in Milford operated by Sira Naturals. To read the full story, visit: [www.BostonGlobe.com](http://www.BostonGlobe.com).

## **9.9: As drug development flounders, people fearing Alzheimer's embrace lifestyle changes**

They watched helplessly as Alzheimer's robbed their loved ones of memory and cognition. They've agonized over the slow progress toward a cure for a scourge that's long defied treatment. They're terrified the disease could someday come for them. As one failed drug trial after the next has dashed hopes for a medical miracle, many healthy people haunted by the specter of Alzheimer's are turning to research that suggests lifestyle changes — from fitness regimens and brain games to better diets and social interactions — might help stave off the disease or push back its onset.

[BostonGlobe.com](http://BostonGlobe.com) [newsletters@bostonglobe.com](mailto:newsletters@bostonglobe.com) via [mail7.suw1111.mcdlv.net](mailto:mail7.suw1111.mcdlv.net)

## **9.10: Can Coconut oil improve Alzheimer's disease?**

In the United States, an estimated 5.4 million people have been diagnosed with Alzheimer's disease. This figure is growing rapidly with the ageing population. One of them was Steve Newport. His wife, Mary Newport, was a doctor. Dr. Mary learned that her husband had severe Alzheimer's disease. When the doctor examined her husband at the hospital, he asked Steve to paint a clock. Instead, he drew a few circles and then drew a few figures without any logic. It was not like a clock at all! The doctor pulled her aside and said: "Your husband is already on the verge of severe Alzheimer's disease!"

It turned out that it was a test of whether a person had Alzheimer's disease. Dr. Mary was very upset at that time, but as a doctor, she would not just give up. She began to study the disease. She found out Alzheimer's disease was associated to glucose deficiency to the brain. Her research says: "The dementia of the elderly is like having diabetes in the head! Before one has the symptoms of Diabetes or Alzheimer's disease, the body has already had problems for 10 to 20 years." According to Dr. Mary's study, Alzheimer's disease is very similar to Type 1 or Type 2 diabetes. The cause is also insulin imbalance.

Because insulin has a problem, it prevents the brain cells from absorbing glucose. Glucose is the nutrition of brain cells. Without glucose, brain cells die. As it turns out, these high-quality proteins are the cells that feed our body. But nutrition for our brain cell is glucose. As long as we have mastered the source of these two kinds of food, we are the masters of our own health! The next question is, where to find glucose? It cannot be the ready-made glucose that we buy from the store. It is not from fruits such as grapes. She started looking for alternatives.

The alternative nutrients for brain cells are ketones. Ketones are necessary in brain cells. Ketones cannot be found in vitamins. \*Coconut oil\* contains



triglycerides. After the triglycerides in \*coconut oil\* is consumed, it is metabolised into ketones in the liver. This is the alternative nutrient for brain cells!

After this scientific verification, Dr. Mary added \*coconut oil\* to her husband's food. After only two weeks, when he went to the hospital again to do painting and clock tests, the progress was amazing. Dr. Mary said: "At that time, I thought, has God heard my prayers? Wouldn't it be coconut oil that worked? But there is no other way. Anyway, it's better to continue taking the\*coconut oil\*".

Dr. Mary was now part of the traditional medical practice base. She clearly knew the capabilities of traditional medicine. Three weeks later, the third time she took him to do a smart clock test, the performance was better than the last time. This progress was not only intellectual, but also emotional and physical. Dr. Mary said: "He could not do his running but now he can run. He could not read for a year and a half, but he can read again now after taking \*coconut oil\* for three months."

Her husband's actions had already begun to change. He did not speak in the mornings. Now she noticed a lot of changes: "Now after he gets up, he is spirited, talking and laughing. He drinks water himself and take utensils for himself on his own." On the surface, these are very simple daily tasks, but only those who have come to the clinic or have demented relatives at home can experience the joy: It is not easy to see such progress!

After frying the greens & onions in coconut oil, making cakes with coconut, after taking 3 to 4 tablespoons of coconut oil per meal, 2-3 months later, the eyes too can now focus normally. Her studies proved that \*coconut oil\* can really improve the problem of dementia in the elderly. Apply \*coconut oil\* to bread. When coconut cream is used, the taste is unexpectedly good.

Young people can also use it for maintenance of health and prevention, and can improve if they have symptoms of dementia. Dementia is caused because nutrients cannot be transported to brain cells, and nutrients must be passed from the body to the brain by insulin. Especially for diabetic patients its not easy to get insulin secretion. "Nutrition cannot get to the brain. When brain cells are starved to death, they are deprived of intelligence." \*Coconut oil\* contains medium-chain triglyceride, which can supply nutrients to the brain without using insulin.

\*So, it can improve Alzheimer's disease and Parkinson's disease\*.

### **9.11: Anti-Alcoholism Drug on the Horizon?**

Scientists at The University of Texas at Austin have successfully tested in animals a drug that, they say, may one day help block the withdrawal symptoms and cravings that incessantly coax people with alcoholism to drink. If eventually brought to market, it could help more than 15 million Americans, and many more around the world who suffer from alcoholism stay sober. If what has been shown to work in worms and rats addicted to alcohol can eventually be demonstrated to work in humans with minimal side effects, it

would be a true breakthrough. Scientists point out, however, that the drug has more hoops to go through before that happens. There are already drugs on the market prescribed to help people break their addiction to alcohol, but for many patients, they are not very effective and have negative side effects. The new drug, called JVW-1034, targets a different molecular pathway in the body and so far, in animal models, has no obvious side effects. "There's clearly a huge need for something different and better," said James Sahn, research scientist in chemistry at UT Austin and co-first author of a new paper. "That's where our approach shines. It's modulating a pathway that doesn't seem to be associated with any of the other drugs that are available." The researchers reported their findings in the journal [\*Neuropsychopharmacology\*](#) and have filed a patent on the drug.

### 9.12: CRISPR Diagnostics Platform is ready for Viral Outbreaks

In a paper published today (May 04, 2018) in *Science*, researchers at Broad Institute of MIT and Harvard report a new tool that engineers the CRISPR-based diagnostic SHERLOCK for rapid outbreak response. The updates to SHERLOCK, which was first unveiled in 2017, enable clinicians to quickly and cheaply diagnose patient samples and track epidemics such as Ebola and Zika with limited equipment — lifting a barrier to rapid deployment in outbreak zones. The platform can now be used to detect viruses directly in clinical samples such as blood or saliva, eliminating a processing step that previously required a lab environment and professionally trained personnel. The development primes SHERLOCK for use in areas where special training and clinical laboratories can be challenging to access. The team has also streamlined SHERLOCK's capabilities to distinguish related viral species from one another and demonstrated the platform's ability to identify clinically relevant mutations, such as a small mutation in Zika virus that has been associated with microcephaly.

### 9.13: The Arthritis Warning Sound

If you hear this sound, you had better run for shelter. Because a new study published in the journal *Arthritis Care and Research* reveals it's a clear sign of arthritis in the making. Most of us ignore this sound as something normal or unimportant, but nothing is further from the truth.

Crepitus is when you hear grating, cracking, or popping sounds around your joints. It is something that most of us consider unimportant, but as this study shows, when it happens frequently, it can be problematic. The scientists analyzed the data of 3,495 people collected by the Osteoarthritis Initiative study. None of them had symptoms of knee osteoarthritis at the beginning of the study. The scientists looked at knee radiographs and pain questionnaires taken on commencement of the study and several times thereafter up to 48 months later. In addition, they asked the participants about the frequency and severity of crepitus at the beginning of the study, and again after 12, 24, and 36 months. With all this information at hand, the researchers could compare

the crepitus scores with the radiographs and pain scores to see whether the former were meaningless or whether they predicted arthritis. The chance that the subjects developed symptomatic arthritis increased along with an increase in the frequency of their crepitus. This was especially true for those whose radiographs showed osteoarthritis at the beginning of the study, even while they were in no pain at all. This means that you should not wait until the pain starts if you experience frequent cracking or grinding sounds in your knees. You can ask your doctor to take a radiograph to establish whether or not you have arthritis, and then start treating it immediately before the pain even kicks in. Immediate weight loss, healthy dieting, and gentle joint exercises work best if they are started before arthritis takes hold.

(by [ShellyManning](#) | Mar 5, 2018 [http://blueheronhealthnews.com/site/2018/03/05/the-arthritis-warning-sound/?tt=newsletter&it=IT\\_LJM](http://blueheronhealthnews.com/site/2018/03/05/the-arthritis-warning-sound/?tt=newsletter&it=IT_LJM))

#### **9.14: Delhi Medical Association writes to PM: Asks for audit of implants**

**NEW DELHI:** In its bid to re-build the trust between doctors and patients, which has been dented severely in the recent past due to reports of overcharging and needless procedures, the Delhi Medical Association has recommended certain steps to Prime Minister Narendra Modi. In a letter written to the PM, a copy of which is with TOI, the doctors' body has suggested internal audit of all implants done at hospitals and adopting a second-opinion approach, which basically means at least two or more doctors should certify need for interventional approach.

Dr G S Grewal, secretary of DMA, told TOI they have taken this step to stop the perception that doctors fleece money from patients by doing needless procedure or using costly implants. "We are asking the government to mandate further regulation on cost of devices, second-opinion approach or even an internal audit — whatever it takes for them to scrutinise us," he said. He added that the nexus between the device manufacturers and government officials is the real reason for the crisis. "There are medicines that are sold at a maximum retail price of Rs 300 when their real cost is less than Rs 30. Who allows this? Similar is the situation with many devices. Our regulatory bodies have failed in their job and they need to be held accountable for the crisis emerging out of their laxity," the DMA secretary said.

#### **9.15: Three private medical colleges get notices for demanding exorbitant fees**

The Puducherry government has issued show cause notices on three private medical colleges and hospitals on charges of demanding exorbitant fees from the students joining PG medical courses as against the fees fixed by the government-constituted committee. Deputy secretary (health) M Sarathi, in the notices dated May 9, said the health secretariat has received several complaints that Sri Manakula Vinayagar medical college and hospital (SMVMC), Sri Venkateshwaraa medical college hospital and research centre

(SVMCH) and Pondicherry institute of medical sciences (Pims) had demanded excess fees of Rs 7.5 lakh, Rs 3.7 lakh and Rs 9 lakh respectively as hostel and other fees from the students sponsored by the centralised admission committee (Centac). “Demanding huge hostel fee form the students is against the directions of the fee committee warranting penal action... why appropriate action should not be initiated against the institutes for demanding exorbitant hostel fees/other fees,” he said. He warned that the government will initiate necessary action against the institutes if they failed to respond to the show cause notice. The fee committee, headed by retired Madras HC judge Justice S Rajeswaran, in March this year had prescribed Rs 6.78 lakh (clinical courses) and Rs 5.55 lakh (non-clinical courses) as annual fees under government quota and Rs 20.34 lakh (clinical) and Rs 11.1 lakh (non-clinical) as annual fees under management quota for the two academic years 2017-18 and 2018-19. “The fee is an all-inclusive annual fee, including various fees like admission fee, tuition fee, special fee, laboratory/computer maintenance and amenities fee, extracurricular activities fee and other recurring expenditures. In addition, the institutions are permitted to collect an amount of Rs 50,000 per student as development fee. The committee directs that the institutions shall not charge either directly or indirectly any other amount over and above fixed as fees. The committee warned that the government will initiate serious penal actions like withdrawal of approval of Medical Council of India, cancellation of essentiality certificate and disaffiliation by the university concerned, besides imposition of fine.

### VET - PHYSICIAN COLLABORATION

Excerpts from Mari A. Schaefer; [mschaefer@phillynews.com](mailto:mschaefer@phillynews.com)

When the gulf between the Human Doctors and the Veterinary surgeons is eventually broken down (hopefully very soon), and closed completely, their coming together to share their professional experiences, there would certainly be a tremendous harvest of useful medical reportorial research materials that would benefit them in particular and humanity in general. Coming to terms with the reality of the fact that, medicine is medicine and the difference is in applications. The language of medicine in human practice is the same except for the patients. The earlier the two groups come to terms with this reality the better.

## 10. FORTHCOMING EVENTS

Calendar of Conferences, Conventions and Symposia in India and abroad

Get your event listed in this section by mailing complete details to the Editor: [rnkohli@gmail.com](mailto:rnkohli@gmail.com)

**10.1: Global Experts Meeting on Infectious Diseases, August 13-14, 2018, Tokyo, Japan.** Meeting International has announced Global Experts Meeting on Infectious Diseases, to be held during August 13-14, 2018 Tokyo, Japan, to share and explore their research findings as keynote presentations, Oral talks, Poster Presentations, Workshops, and Exhibitions. Details:

MeetingInternational

**10.2: 14th African Dairy Conference and Exhibition, August 20 - 24, 2018, Nairobi, Kenya.** Details: [www.dairyafrika.com](http://www.dairyafrika.com); Ph. +254 721266481; Email: [secretariat@dairyafrika.com](mailto:secretariat@dairyafrika.com)

**10.3: 9th National Seminar and Dairy Exhibition, September 14-15-16 2018 at NDRI, Karnal (Haryana, India).** The events will be jointly organized by ICAR -National Dairy Research Institute and NDRI Graduates Association. The theme of the seminar is Entrepreneurship in Dairy & Food Industry: Concept to Commercialization". Contact: Officer In-Charge, Experimental Dairy, ICAR-National Dairy Research Institute, Karnal-132001, (Haryana), Email: [chrndri@gmail.com](mailto:chrndri@gmail.com), Mob. 09354120651.

**10.4: IDF World Dairy Summit 2018, Oct. 15-19, 2018 at Daijeon, South Korea.** Theme: Dairy for the Next Generation. Details: [www.idfws2018.com](http://www.idfws2018.com)

**10.5: International Seminar on "Recent Trends and Experimental Approaches in Science, Technology and Nature" December 23 -24, 2018, FDDI, Jodhpur, Rajasthan, India.** organized by Society for Science and Nature (SFSN), India.

Details: [sfsn.seminar@gmail.com](mailto:sfsn.seminar@gmail.com), [ecosustainable@hotmail.com](mailto:ecosustainable@hotmail.com);  
<http://scienceandnature.org/conference/indexcon.html>

**10.6: India International Dairy Expo (IIDE) concurrent with a 2- day seminar on "Innovation & Technological Growth in Dairy Industry", March 12 - 14, 2019, at Bombay Exhibition Centre, Mumbai, India.** To be Organized by Indian Dairy Association (West Zone) jointly with Koelnmesse YA Tradefair Pvt. Ltd. Details: Indian Dairy Association (West Zone) and Koelnmesse YA Tradefair Pvt Ltd.  
(E-mail: [s.rane@koelnmesse-india.com](mailto:s.rane@koelnmesse-india.com))

**THE NAVS NEWSLETTER is compiled, edited and circulated by the NAVS Editor Prof. Dr. R.N. Kohli, for and on behalf of the NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA). It is for private circulation only. All correspondence regarding the Newsletter may kindly be addressed to the Editor ([rnkohli@gmail.com](mailto:rnkohli@gmail.com)).**