

*From the Desk of the Editor – Rtn. Rajiv Maniar*

*Dear Fellow Rotarians...*

*People and Work are gaining momentum. The fear was decreasing and we are now surrounded by NEW VARIANT... OMNICRON. We need to still protect ourselves, families and human from more difficult times. Let us start taking care and SAVE THE WORLD. Let us pray Almighty to bless the World*

*Editor & IPP. Rtn. Rajiv Maniar*

## Open Baroda Ranking Carrom Tournament

An Open Baroda Ranking Carrom tournament was organised in partnership with Baroda District



Carrom Association & Rotary Club of Sayajinagari was hosted at Hotel Tulsi from 8<sup>th</sup> to 10<sup>th</sup> October 2021. More than 100 Players from all over the state had gathered. There were more than 20



Tables. The game was of knock-out round.



At the end of the game - Prizes and Trophies were given to the winners of various Categories.



# Pride of Rotary Club of Baroda Metro

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## EXPRESS HEALTHCARE

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INDIA'S FOREMOST HEALTHCARE MAGAZINE

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**INTERVIEWS**  
**Dr Suresh Munuswamy**  
 Head - Technology  
 Innovations and  
 Health Informatics,  
 Public Health Foundation  
 of India (PHFI)  
**Dr Veeraal Gandhi**  
 Founder & Chairman,  
 Vortex Bio

An Article was published in **Express Healthcare** in **October 2021** issue. On page no. 28 of the issue, our own **Dr. Agam Srivastava's** article was published!  
**Kudos Dr. Agam !! Keep up the good work.**

### Revolutionary technologies in radiology and imaging

**Dr Agam Srivastava**, Radiologist, SRL Diagnostics highlights the tech trends shaping the future of radiology and imaging



#### Current market scenario

The India Diagnostic Imaging Equipment Market is expected to register a CAGR of 12-15% over the next five years. This number is greater than the global CAGR rate that is pegged at 8%. Rise in prevalence of chronic diseases, increased adoption of technologies in imaging and a growing elderlygeriatric population is expected to boost the growth. Increasing incidences of chronic diseases, cardiovascular disorders, genetic mutations, GI disorders are all expected to impact the industry positively. Increased expenditure on the healthcare sector, greater consumer awareness will also give an impetus to the imaging and radiology industry.

In addition, the growing expenditure in the healthcare sector, technological advancements coupled with expanded government initiatives across the globe and spending on healthcare services are some of the other growth factors for the diagnostic imaging equipment market.

Presently, MRI, CT scanner, USG and X-ray account for over 80% of the sector followed by nuclear imaging.

The entire healthcare industry is adapting to newer devices and technologies to achieve better outcomes at lower cost. Radiology contributes to more than 80% in diagnosis and treatment.

New trends are practised where:

- ◆ Diseases will be precisely diagnosed.
- ◆ Therapy will be tailored to every individual.
- ◆ Will be more focused around the patient's medical condition.
- ◆ Reduced costs with no sacrifice in outcomes.
- ◆ Patients will be more engaged in managing their health.
- ◆ Patients will become consumers and they will be well informed and exercise choice.

◆ Digital and robotic technologies will change the very nature of wellness and healthcare.

In an era of increasing consumerisation of healthcare, patients' expectations (of personalised care delivery are mounting daily. This has been fuelled by growing complexity of cases and shortage of adequate resources. Consequently, physical fatigue arising out of putting in extra work hours to enhance efficiency is inclining. Hence, frequent episodes of radiologist burnout experiences are rising significantly.

◆ These are addressed generally by a new concept:

- ◆ Expanding precision medicine by improving diagnostic accuracy and reducing unwanted variation.
- ◆ Transforming Care delivery by improving access to patient care, optimising clinical operations and increase productivity of workforce.
- ◆ Improving patient experience by engaging more with patients, optimise diagnostic experiences, deliver outcomes that matter to patient and sustain patient loyalty.

◆ Digitalization by generating high quality imaging, knowledge sharing, leveraging analytics and artificial intelligence.

◆ Emerging trends shaping the future of radiology and imaging:

1. Products like CT scanners, USG, X-ray machines and MRI as a diagnostic tool is expected to hold a major market share in the Indian Diagnostic Imaging Market.
2. Demand for Digital X-ray systems are growing that can give lower radiation dose and instant images for quicker diagnosis.
3. In the short-term we may see

more PET and CT applications and even the incorporation of zoography in many procedures, including interventional procedures performed with robotics.

4. Use of genetic biomarkers has changed treatment approaches to a few conditions and integrating molecular imaging with genetic markers will lead to more personalised treatment.

5. Interventional radiology will develop at a rapid pace and will work well together with treatment innovations that tap into radio frequency and laser ablation devices.

6. Digital 3D mammography and Ultrasonography will add more customer convenience, improve precision and also remove the risk of radiation.

7. Newer MRI applications like Fibroelastography, Multi-ultra (SMS), Multi-contrast scanning, MR Finger-printing (MRF), Ultrafast time-efficient acquisition scanning technologies are improving diagnostic capabilities and reducing MRI scan times significantly and improving patient experience.

8. Artificial intelligence will play a significant role in radiology where machine learning applications are utilised in modalities like mammography, CT scanner, MRI, ultrasonography.

AI not only has the potential to improve the efficiency and accuracy of interpreting radiologic studies relative to human radiologists but can also reduce film time of radiologists, enabling them to focus on more critical diagnosis.

Imaging informatics propelled by GI markers, PACS (picture archiving and communication system) that will enable digital transmission of clinical reports, precision medicine, 3D printing, bio-computing and internet of things will shape the future of radiology.

Global radiology is an emerging concept where the roles of a radiologist and information technologist will merge. All of this is expected to improve patient care and patient outcomes.

AI assisted workflow management systems will enable radiologists through predictive analysis and forecasting capabilities.

◆ Limitations of technology in the sector and acceptance and adoption of technology

While technology helps to make precise medical decisions, failure to transmit data correctly or in a timely manner are all limitations and will slow the mainstream adoption of wearables. Wearable technology has a huge potential to transform the radiology practice. Smart tools like Microsoft's HoloLens and Google Glass are the future for several radiology applications. Wearable devices especially has a lot of future in image guided intervention and diagnostic radiology.

◆ Investment opportunities

With changing regulatory and economic environment, the industry is expected to grow significantly. Currently imports constitute about 75% of the medical devices industry sales in India per a report by Deloitte. This is due to a lack of proper regulatory framework for the industry and thus constraining the investments in the market. To enable indigenous manufacturing in the industry, we need research backing, investments and the requisite skillsets.

◆ Penetration and future of wearables in radiology and imaging in India

All based sensors are prepping wearables. Customers are adapting to wearables faster than ever to monitor overall health/fitness and wellness levels. Smart watches, smart footwear and wrist bands, movement sensors and wearable skin patches will define the healthcare industry of tomorrow. Wearables help in real-time tracking and immediate response to life threatening conditions like COPD and cardiac diseases. The wearable industry is expected to progress to real-time clinical monitoring and not just fitness tracking.

High cost of wearable devices, data privacy requirements of extensive wireless telecommunication infrastructure, failure to transmit data correctly or in a timely manner are all limitations and will slow the mainstream adoption of wearables. Wearable technology has a huge potential to transform the radiology practice. Smart tools like Microsoft's HoloLens and Google Glass are the future for several radiology applications. Wearable devices especially has a lot of future in image guided intervention and diagnostic radiology.

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## SPEAKER MEET OF Ms. Bhakti Sharma.

A Speaker Meet was organised at Hotel Presidency, Vadodara on **October 22, 2021**. She is the **Sarpanch of Barkhedhi Abudullah** in the state of Uttar Pradesh where actually even men fear to take a political position.

She has bought a revolution in the village by knowing the management of Government funds and restructuring the village to its best requirement.

The associated Rotary Clubs along with us were - Rotary Club of Baroda, Rotary Club of Baroda Cosmo, Rotary Club of Baroda Greens. Rotary Club of

**Rotary**

BEYOND THE HORIZON

ROTARY CLUBS OF VADODARA CITY ARE JOINTLY ORGANIZING "SPEAKER MEET"

**Sarpanch of Barkhedhi Abudullah**

**Ms. Bhakti Sharma**

**GUEST SPEAKER**

**OCTOBER 22,**  
**AT 7:00 PM**  
**FRIDAY**

Venue:  
**Baroda Residency Hotel**  
 16, Opp. C.H. Jewellers, Alkapuri, Vadodara, Gujarat

**FOR INFORMATION CONTACT:**  
**Rtn. Vrajesh Jindal**  
**+91 93761 74930**

**Associated Rotary clubs:**

Baroda	Baroda Metro
Baroda Cosmo	Baroda Sayajinagari
Baroda Greens	Vadodara One
Baroda Jawaharnagar	

**REGISTER NOW!**

Designed by: @TticksMedia

Baroda Jawaharnagar, Rotary Club of Baroda Sayajinagri & Rotary Club of Vadodara One.

## Visit to Chilyavant & Sanada with Ms. Bhakti Sharma

After the event of 22<sup>nd</sup> October, 2021 – Ms. Bhakti Sharma & the leadership team comprising of PDG Pinky Patel, Dr. Agam Srivastava, President Rtn. Vrajesh, Secretary Rtn. Sandeep Grover and other members of the club visited

the Chotaudaipur villages where the village has been transformed.



More than 4 hours was spent by Ms. Bhakti Sharma with our key associates Shroff Foundation Trust, Vadodara for understanding the progress & implementation of the project.



### BIRTHDAY WISHES – October 2021

- 01<sup>st</sup> Rtn. Dr. Maneesha Shukul
- 07<sup>th</sup> Rtn. Rajendrasinh Thakore
- 12<sup>th</sup> Rtn. Puja Soni
- 17<sup>th</sup> Rtn. Jayesh Jindani
- 28<sup>th</sup> Rtn. Nilesh Patel
- 29<sup>th</sup> Rtn. Rajesh O Shah



### MARRIAGE ANNIVERSARIES – October 2021

- 05<sup>th</sup> Rtn. Agam Shrivastava
- 30<sup>th</sup> Rtn. Atul Shroff
- 30<sup>th</sup> Rtn. Shruti Atulbhai Shroff
- 19<sup>th</sup> Rtn. Vinod Advani
- 19<sup>th</sup> Rtn. Karuna Advani



## Birthday Wishes & Marriage Anniversaries –NOVEMBER- 2021

### BIRTHDAY

No Birthday



### ANNIVERSARIES

- 21<sup>st</sup> Rtn. Urvi Utkarsh Hathi
- 21<sup>st</sup> Rtn. Utkarsh Hathi
- 25<sup>th</sup> Rtn. Rajesh O Shah
- 27<sup>th</sup> Rtn. Puja Soni
- 27<sup>th</sup> Rtn. Nilesh Soni

