



TELANGANA STATE CHAPTER

**INDIAN RADIOLOGICAL &
IMAGING ASSOCIATION**

IRIA TELANGANA e-Newsletter, Issue -7

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Issue 7 : JANUARY 2021

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FROM THE PRESIDENT'S DESK



Dear colleagues and friends of IRIA,

I am glad to inform you the News bulletin of State IRIA Telangana chapter 2021. First of all I Congratulate Dr.Aruna for her Magnificent work for the academic cases, Radiological cartoons, achievements of members from time to time and for encouraging academic fiest and also we are bringing the latest updates of activities of Telanagana IRIA chapter.

Thanking you,

Long live IRIA.

**Dr. Venkatram Reddy,
PRESIDENT IRIA TS CHAPTER.**

FROM THE GENERAL SECRETARY DESK



Dear Friends,

On behalf of IRIA, I would like to express my gratitude for your overwhelming support and participation in making all the events and activities of the last three months successful. We have not only organized various high quality academic events in the form of webinars, monthly meetings, etc., but we have also undertaken administrative planning sessions to chalk out a roadmap for the coming months.

The 6th Annual State Conference (2020) of IRIA TS Chapter was held in October virtually, for which the theme “Update on Hepatobiliary, GI and Pancreatic Imaging” was chosen. Guest faculty was invited for talks from the USA apart from India. There was active participation of the students in the Paper and Poster presentation competitions. The 4th Radiologic Anatomy Conference (RAC – 2020) was conducted in November for which the students turned out in good numbers and actively participated in the quiz competition.

In addition to these, diversified academic webinars were also conducted on the topics of Chest Imaging in October, Fetal Imaging in November and Cardiac CT in December. All the webinars were well attended by both students and practicing Radiologists making them excellent platforms for transmission of knowledge. A monthly meeting with guest lecture on Radiological Evaluation of Prostatic Pathologies was also held in December.

There was active support from the trade colleagues for the above mentioned academic programmes.

As we move forward, we must plan our future endeavors keeping the COVID pandemic in mind and at the same time devise an effective course of action. We will leave no stone unturned to keep going forward in the direction of IRIA’s vision, which is to achieve Academic Excellence and Development of Radiology. We hope that your support and encouragement will continue in making all future endeavors of IRIA a success

Regards,

Dr. Ravuri Power
GENERAL SECRETARY IRIA TS CHAPTER

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MESSAGE FROM THE EDITOR'S DESK



Dr. Aruna Karnawat
Consultant Radiologist
American Oncology Institute &
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Warm Greetings to everyone and Wish you all a very happy New year !!

True to the wishes of New Year, we received the heartening news of emergency approval of two indigenous Indian vaccines for emergency use.

With the Covid crisis around for almost an year now, this has been the most awaited New year.....awaited for the vaccine, awaited to start the normal life again without any fears.

However, every adversity brings an opportunity and invention along with it. Never before the element of CME /continuing medical education was more than justified in history than during this pandemic crisis. Infact there has been a Webinar Pandemic!!

Confined to the safe corners of their offices and homes, the students and consultants have benefitted alike from the buffet of topics covered extensively by speakers and faculty from every corner of the world. Opportunity to hear those faculty, whom we might have never heard or worked with in lifetime, has been made possible, courtesy the digital platform.

We are very proud to inform that four of our Senior Academicians, Prof.Kakarla Subba Rao, Prof.Ramsubba Rayudu, Prof.T.Mandapal and Dr. K.Prabhakar Reddy have been felicitated on the Teacher's day occasion by National IRIA for their invaluable contribution to the growth of Radiology.

Telangana State Chapter, as always, has been in the forefront, in conducting academic activities and conferences. This year, too, TS IRIA successfully conducted 5 webinars, apart from the Annual Physics course, Radiology Anatomy course and Annual State conference. This has been possible with incessant efforts of our Secretary, Dr. R.Power, who facilitated smooth conduct of sessions with participation at every step, right from the inception to the main event and final report.

We successfully had release of 3 issues of our e-newsletter with rich contents, cases and inputs from academicians, senior Radiologists and members alike. All this has seen the light of the day due to active support from Whitecoats.

As we usher in the New Year, I hope and request active participation by all State IRIA members to actively contribute to our e-newsletter in the form of cases, articles, publications and achievements.

**"Here's to a bright New Year and a fond farewell to the old;
Here's to the things that are yet to come, and to the memories that we hold."**

Stay safe and blessed!!

ACHIEVEMENTS OF TS-IRIA MEMBERS

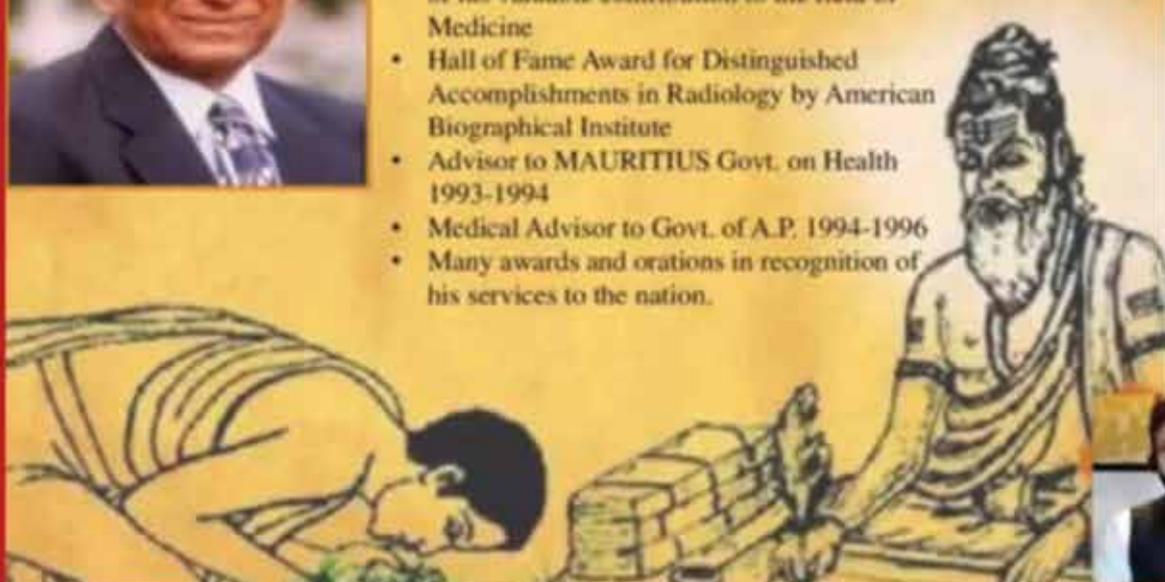
FELICITATION OF SENIOR RADIOLOGISTS, ACADEMICIANS & PAST PRESIDENTS OF TS CHAPTER BY NATIONAL IRIA



DR. KAKARLA SUBBA RAO

1999

- Awarded Padma Shri in 2000, in recognition of his valuable contribution to the field of Medicine
- Hall of Fame Award for Distinguished Accomplishments in Radiology by American Biographical Institute
- Advisor to MAURITIUS Govt. on Health 1993-1994
- Medical Advisor to Govt. of A.P. 1994-1996
- Many awards and orations in recognition of his services to the nation.





DR. B RAMASUBBARAIDU

TELANGANA

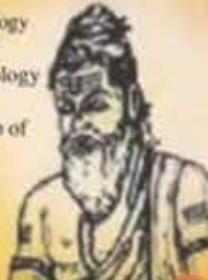
- Former Professor & Head, Department of Radiology, Gandhi Medical College
- Former Professor & Head, Department of Radiology, Medwin Hospital



DR. T MANDAPAL

TELANGANA

- Professor & Head, Department of Radiology, Kurnool Medical College, Hyderabad
- Professor & Head, Department of Radiology, Osmania Medical College, Hyderabad
- Former Director, MNJ Institute of Oncology & Regional Cancer Centre
- Director, Imaging Services, Care Group of Hospitals



DR. PRABHAKAR REDDY

2009

- Past president of the AOSR-2014
- Head, Department of Radiology, Dr V.R.K. Women's Medical College
- Very popular in his time for the help he gave to numerous Radiologists in setting up their practices
- Very Efficient Radiologist, known for his superior organization skills.





Article details :

1. Anitha Mandava, Veeraiah Koppula, Meghana Kandati, Gaurav Sharma, Alekya Potlapalli, Rakesh Juluri. Ultrasound in the Diagnosis of Malignant Pelvic Fistulas: Sonographic Findings in Correlation with Computed Tomography Imaging.

- September 2020
- Ultrasound in Medicine & Biology 46(12)

DOI: 10.1016/j.ultrasmedbio.2020.08.019.



Dr. Anitha Mandava



Dr. Veeraiah Koppula



Dr. Meghana kandati



Dr. Gaurav sharma



Dr. Alekhya Potlapalli



Dr. Rakesh Juluri



Dr. Rohit Yalamanchili



Dr. Dilip Yadav

2. Anitha Mandava, Veeraiah Koppula, Rohit Yalamanchili, Dilip Yadav, Juluri Rakesh. Ultrasound imaging of acute scrotum: Pictorial review with etiological correlation. The ASEAN Journal of Radiology. August 2020 90-109.

DOI: 10.46475/aseanjr.2020.12



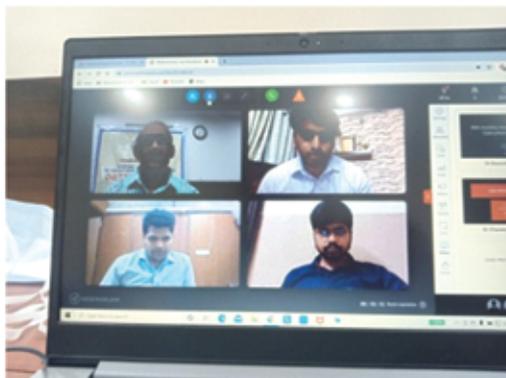
Dr. Sikandar Shaikh

1. Awarded PROMISING RADIOLOGIST OF THE YEAR IN PET-CT AND MOLECULAR IMAGING CATEGORY.
2. Appointed as REVIEWER EDITOR of the Frontiers in Oncology International Journal.

Programmes Conducted by TS IRIA

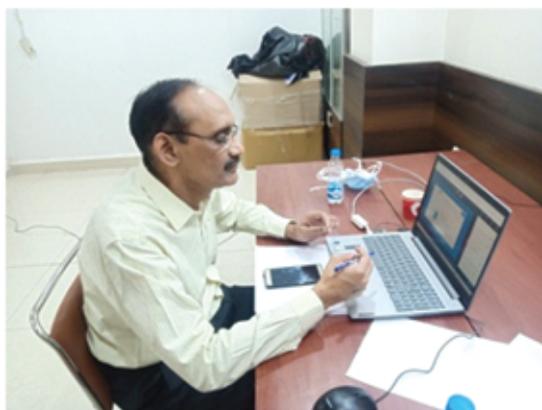
MONTHLY MEETING

We have conducted the virtual monthly meet of our chapter on 08th December 2020 in which we had guest lecture by Dr.Ravikanti S.Prasad on “Radiological Evaluation of Prostatic Pathologies” and case presentations by Post Graduate students from various medical colleges of our state.



WEBINARS

The Third monthly webinar of our chapter was conducted on “Chest Imaging” on 27th October 2020. Four guest lectures were delivered by speakers from Kuwait, USA, UK, Singapore &– Dr.Uma Mahesh M (Kuwait), Dr.Kavitha Yaddanapudi (USA), Dr.V.V.Ramakrishna (UK) and Dr.Dinesh D Chinchure (Singapore). A total of 301 participants attended this webinar and it was a good interactive webinar.



Programmes Conducted by TS IRIA

The Fourth monthly webinar of our chapter was conducted on “Fetal Imaging” on 10th November 2020. Four guest lectures were delivered by speakers from Hyderabad & Warangal – Dr.Aswini Jyothi J S, Dr.Muralimohan Reddy M, Dr.Madhavi Nori and Dr.Madhavilatha Routhu (Warangal). Students as well as practicing Radiologists attended this webinar and the lectures focused on clinical and Radiological findings.



The Fifth and final webinar of this year of our chapter was conducted on the topic “Webinar on Cardiac CT” on 22nd December 2020. Four guest lectures were delivered by faculty from Hyderabad, who are practicing the subspecialty of Cardiac Imaging – Dr.Ramakrishna N, Dr.P Vikas Reddy, Dr.Deepak B and Dr.Vishnu Vardhan Ravilla. This highly informative webinar was well appreciated by the students as well as practicing Radiologists.



Conferences

6th Annual State Conference 2020 of IRIA TS Chapter

The 6th Annual State Conference 2020 was conducted on 11th and 18th October, 2020 virtually. The Theme of the Conference was “Update on Hepatobiliary, GI and Pancreatic Imaging”. This is the Second virtual meeting conducted by IRIA Telangana State Chapter in order to ensure physical distancing during the COVID 19 pandemic.

The meeting was a great success with presentations from the international faculty predominantly. Fourteen guest lectures were delivered by speakers from USA, UK and India- Dr. Kumar Sandrasegaran, USA, Dr. Nikhil Ramaiya, USA, Prof. Raj Mohan Paspulati, USA, Dr. Rupan Sanyal, USA, Dr. Sree Harsha Tirumani, USA, Prof. Mark Callaway, UK, Dr Rajesh Arumugam, UK, Dr. Ramdas Senasi, UK, Dr. Anirudh Kohli, MUMBAI, Dr. B. Suneetha, HYDERABAD, Dr. Lalendra Upreti, NEW DELHI, Dr. Raju Sharma, NEW DELHI, Dr. B. Surendra Kumar, VISHAKAPATNAM.

Scientific Paper Competition was held for post graduate students. A total of 59 papers were presented, from which top 3 best papers was selected by three senior Professors of Radiology.

And also Scientific Poster Presentations were accepted from the post graduate students, in which 71 Posters were presented. Best 3 posters were selected by three senior Professors of Radiology.

IRIA TS Chapter Congratulates the following winners in the Scientific Paper Competition held on 18-10-2020

1st Place - Dr. Yakshith, NIMS, Hyderabad

2nd Place - Dr. Amin Dhanush Jayananda, NIMS, Hyderabad

3rd Place - Dr. G V Sai Teja, Kamineni Medical college, Narketpally &
Dr. M Sashikanth, GEMS, Srikakulam.

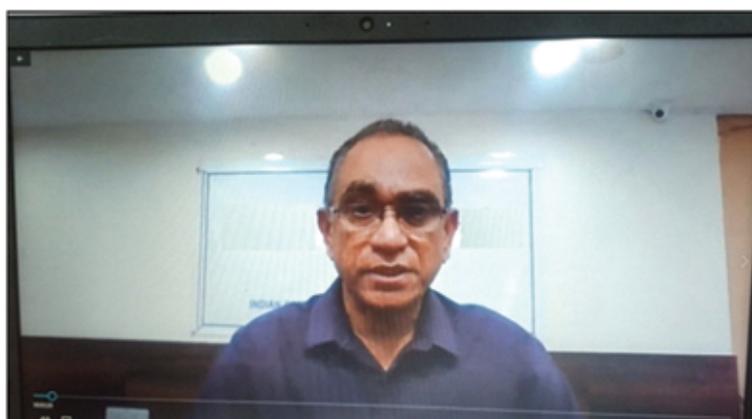
IRIA TS Chapter Congratulates the following winners in the Scientific Poster Presentation held on 18-10-2020

1st Place - Dr. M. Chandrasekhar, NIMS, Hyderabad

2nd Place - Dr. Dilip Yadav, BIACH, Hyderabad

3rd Place - Dr. Nainika Juvvadi, KAMS, Hyderabad.

All winners were awarded with appropriate prizes.



Conferences

4th Radiologic Anatomy Course 2020 (RAC) of IRIA TS Chapter

The “4th Radiologic Anatomy Course 2020” (RAC) was conducted on 22nd and 29th November, 2020 virtually. This is the Third virtual Course conducted by IRIA Telangana State Chapter.

The meeting was a success with predominant participation of the students, who are in their first year of post graduate course. Twenty Two guest lectures were delivered by speakers from Hyderabad. The speakers are actively practicing Radiologists and few of the working teaching institutes of the city of Hyderabad.

Quiz Competition was held for post graduate students. Quiz was in the lines of FRCR format and was conducted by Dr. Abhishek Arora. Attractive prizes were given to those who stood 1st, 2nd and 3rd places in the quiz competition.

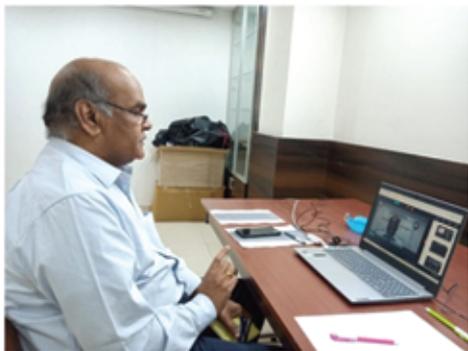
The course was well appreciated by the students, as it dealt with Anatomy of the whole body of Radiological importance.

IRIA TS Chapter Congratulates the following winners in the Quiz Competition in 4th Radiologic Anatomy Course (RAC) held on 22-11-2020 and 29-11-2020

1st Place - Dr. Revathy G, JIPMER, Puducherry.

2nd Place - Dr. Saravana Kumaran G, VIRINCHI HOSPITAL, Hyderabad.

3rd Place - Dr. Aswathy Sunil, Osmania Medical College, Hyderabad



Dr Ravuri Power,
Hon. Gen. Secretary,
IRIA TS Chapter.

Case - 1

Author



Dr.Gayatri.S

Senior Consultant Radiologist
AIG hospitals Hyderabad

47y / Male, presented with complaints of low-grade fever and pain abdomen in the last 1 month. Ultrasound abdomen had detected multiple liver SOLs and the patient was referred for further work up with triphasic MRI abdomen.

Findings on MR abdomen:

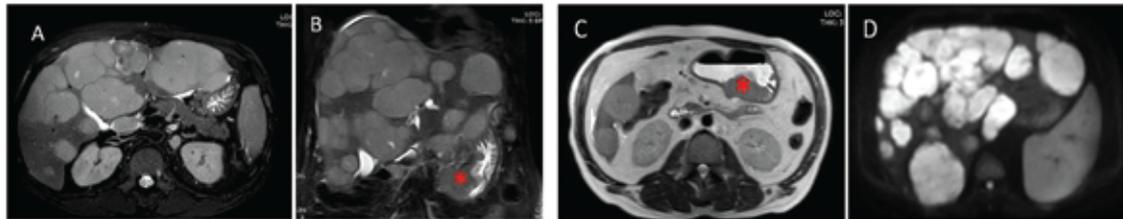


Fig 1: Axial T2W FS (A), Coronal T2W FS (B), Axial T2W (C) and Axial DWI b- 800 (D) images show multiple well circumscribed rounded homogenous hyperintense liver masses which are diffusion bright. An eccentric T2 iso to hyperintense mass is seen along the posterior wall of the stomach (Red Asterix) well limited by the serosa.

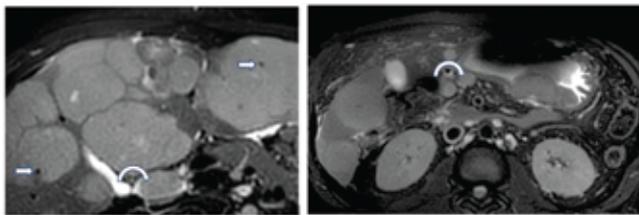


Fig 2: Axial T2W FS images show central vessel in the form of a flow void within most of the liver lesions (solid white arrows). Periportal, peri gastric and precaval nodes are noted (curved white arrows)

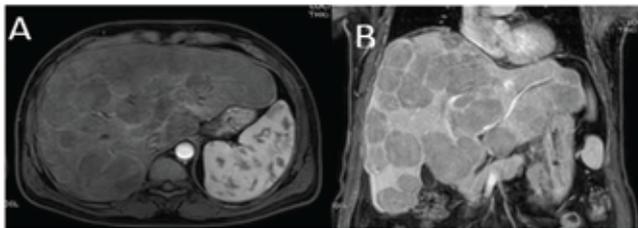


Fig 3: In the post contrast arterial phase- axial (A) there is a thin rim of peripheral enhancement. The venous phase demonstrates mild homogenous enhancement less than that of the background liver parenchyma.

Percutaneous biopsy of the liver lesion and endoscopic biopsy of the gastric mass showed Non- Hodgkin's Lymphoma.

Discussion:

Primary Hepatic Lymphoma is defined as lymphoma that is confined to the liver and perihepatic lymph nodes, without evidence of involvement of other visceral organs, distant lymph nodes or bone marrow for at least 6-months after the onset of hepatic disease. Secondary involvement of the liver can occur in up to 50 % of patients with non-Hodgkin lymphoma. Lymphomatous involvement of the liver may manifest at imaging as a discrete focal liver mass or masses, diffuse infiltrating disease, or an ill-defined mass in the porta hepatis. Multifocal lesions or diffuse infiltration is the most common pattern of secondary hepatic lymphoma, the other pattern being multiple small nodules in military pattern. Untreated nodules in secondary hepatic lymphoma are usually homogeneous. Majority of the lesions demonstrate minimal to no enhancement on all the phases. Enhancement, when present, is characteristically less than the surrounding hepatic parenchyma. However, multiple vascular channels can often be seen coursing through the lesion. This has been referred to as the "vessel penetration sign". On MR, the liver lesions are moderately hyperintense on T2-weighted images and show restriction on diffusion due to their highly cellular nature. Target-like lesions showing a T2-hyperintense rim with a slightly more hyperintense core can also be seen.

References:

- 1.Hematologic Malignancies of the Liver: Spectrum of Disease. Anderanik Tomasian, Kumar Sandrasegaran, Khaled M. Elsayes, Alampady Shanbhogue, Akram Shaaban, and Christine O. MeniasRadioGraphics 2015 35:1, 71-86
2. Colagrande S, Calistri L, Grazzini G, Nardi C, Busoni S, Morana G, Grazioli L. MRI features of primary hepatic lymphoma. Abdom Radiol (NY). 2018 Sep;43(9):2277-2287. doi: 10.1007/s00261-018-1476-5. PMID: 29460044.
3. The imaging conundrum of hepatic lymphoma revisited. S. Rajesh, Kalpana Bansal, Binit Sureka, Yashwant Patidar, Chhagan Bihari, Ankur Arora. Insights Imaging. 2015 Dec; 6(6): 679–692. Published online 2015 Oct 6. doi: 10.1007/s13244-015-0437-6

Case - 2

Author



Dr. Shruthi Kalyan Athni, DNB Fellowship in Cardiac Imaging, Star Hospitals, Hyderabad.

Single Right Coronary artery with Congenital Absence of Left Coronary Artery system equivalents: A rare Coronary Circulation Anomaly

Case: A 62 year-old female presented with chest pain and breathlessness since 1 month. She was evaluated for the same at a local hospital and diagnosed to have dilated cardiomyopathy with severe LV dysfunction (EF: 35-40%). A conventional coronary angiogram was performed and the left main coronary artery (LMCA) ostium could not be cannulated despite multiple cuspal injections and was reported as chronic total occlusion of LMCA.

She was referred to our institution for further management. Patient was referred for a CT coronary angiogram for further evaluation. CT coronary angiogram showed a Single Right coronary artery (RCA) with absence of left main coronary artery. A branch from proximal part of RCA (conus artery) was noted, supplying the proximal third of the interventricular septum (LAD course) and coursing along the proximal left AV groove (LCX course).

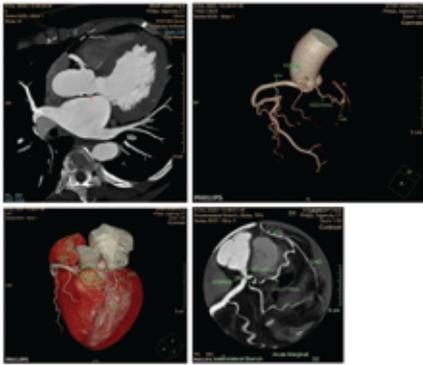


Figure (A-D): (A) Axial thick Maximum intensity projection (MIP) image of CT coronary angiogram illustrating a Single Right coronary artery (RCA) and a blind Left Sinus of Valsalva (red arrow).

Volume rendered images (B-C) and Globe view (D) images showing single RCA originating from right coronary sinus with no coronary artery originating from the left coronary sinus. Branch from Conus artery was noted, supplying the proximal third of the interventricular septum (LAD course) and coursing along the proximal left AV groove (LCX course).

CT Coronary Angiogram findings reveal:

- The left coronary ostium was absent, and a blind left coronary cusp was noted.
- A single large coronary artery was observed to be arising from the right coronary cusp; it coursed through the right atrioventricular groove and divided into the PDA, PLVB in keeping with the course of anatomic RCA.
- Further, a branch from proximal part of RCA (conus artery) was noted, supplying the proximal third of the interventricular septum (LAD course) and coursing along the proximal left AV groove (LCX course).
- There was no evidence of Atherosclerosis in visualized coronary arteries.

Discussion:

Coronary artery anomalies have an incidence of 1.3% as per the largest series to date. Interestingly enough, single right coronary artery (RCA) anomalies are rarest, with estimated incidence of 0.0008%.

According to our search of the literature, only five such cases have been reported till date. Single anatomic RCA with superdominant branches and absent equivalents of the left coronary artery system is the rarest of the coronary artery anomalies with only three cases reported hitherto, two on necropsy, and third on dual source computed tomography (CT) coronary angiography.

Coronary anomalies may occur in isolation or with other congenital heart diseases, most commonly valvular anomalies.

Anomalous coronary arteries can be benign or life threatening depends on their potential to cause myocardial ischemia and sudden death, which in turn is dependent on their origin, course, associated with CHD, and coexistent atherosclerotic lesions.

Conventional Angiographic differentiation of congenital absence of coronary artery from severe atherosclerotic LMC ostial occlusion is often difficult.

The CT coronary angiographic depiction of blind CT coronary sinus, as well as the arterial supply to entire heart from superdominant branches of RCA which have course different from the left coronary arterial branch equivalents, lead us to the diagnosis of “congenital single anatomic right coronary artery with absent left coronary artery system equivalents” rather than severe atherosclerotic occlusion of LMC artery

Lipton’s categorization of Single coronary anomalies is the most universally used classification system. This anomaly is a variation to the typical Lipton subtypes and may represent a new subtype not previously described before.

Conclusion

Single RCA with Absence of Left Coronary Artery system equivalents is extremely rare with only a few isolated cases reported in the literature. Use of CTCA was useful in defining this unusual anatomy and excluding a haemodynamically significant lesion.

Case - 3

Author

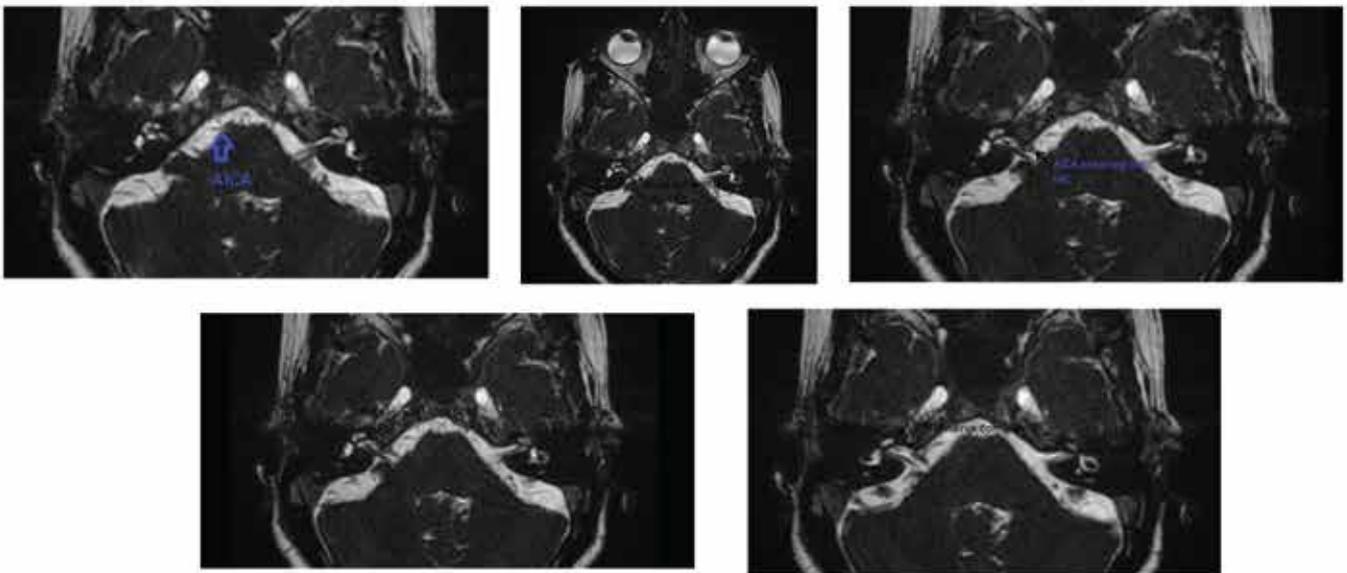


Dr. Soujanya Bolla
American oncology and
citizens hospital

Anterior inferior cerebellar artery vascular loop type III

CLINICAL PROFILE:

57 year old female complaining of giddiness since 1 day.



Selected 3D Axial FIESTA plain images show right AICA loop within right internal auditory canal. The vascular loop extends more than 50% into the internal auditory canal (type III). The loop closely abuts the VII/VIII nerve complex.

DISCUSSION:

AICA loops in the cerebellopontine cistern have been implied in causing auditory and vestibular symptoms like vertigo, tinnitus, as well as hemifacial spasm, resulting from compression of the VII and VIII cranial nerves. Usually seen in middle aged individuals without any gender predilection.

The vessels can be classified according to their anatomic location:

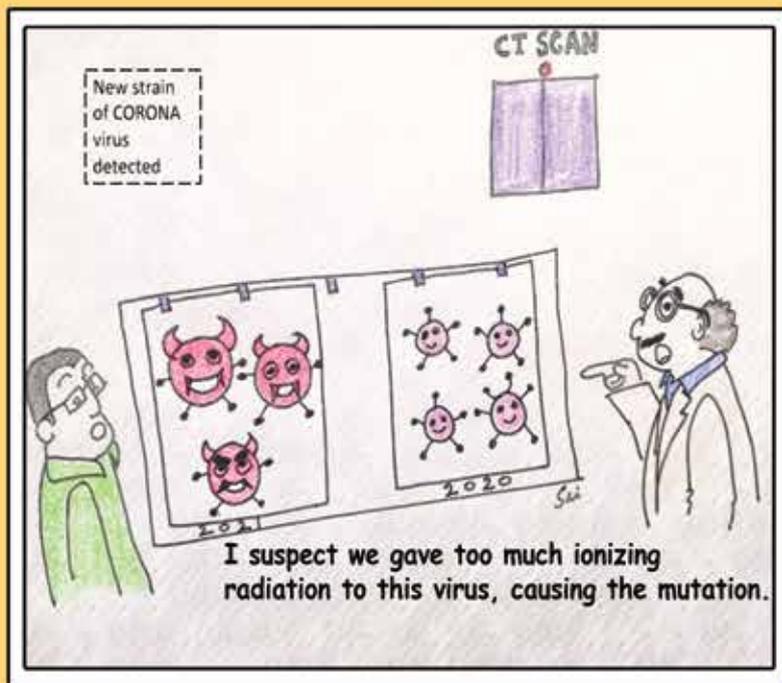
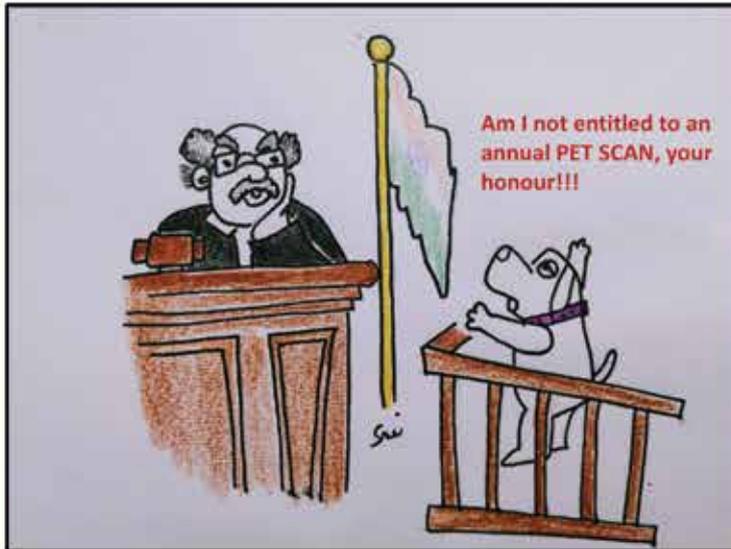
- Type I: lying only in the CPA, but not entering the internal auditory canal (IAC).
- Type II: entering, but not extending >50% of the length of the IAC
- Type III: entering and extending >50% of the length of the IAC

In addition, it is important to evaluate the presence of vascular contact and the angulation of eighth cranial nerve at the contact point, as specific signs of vascular compression



Upcoming Conferences

**KARE in March 2021
(Dates will be announced soon)**



Dr. Srinadh Boppana
Consultant Radiologist
Kamineni Hospital
LB Nagar



WhiteCoats

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