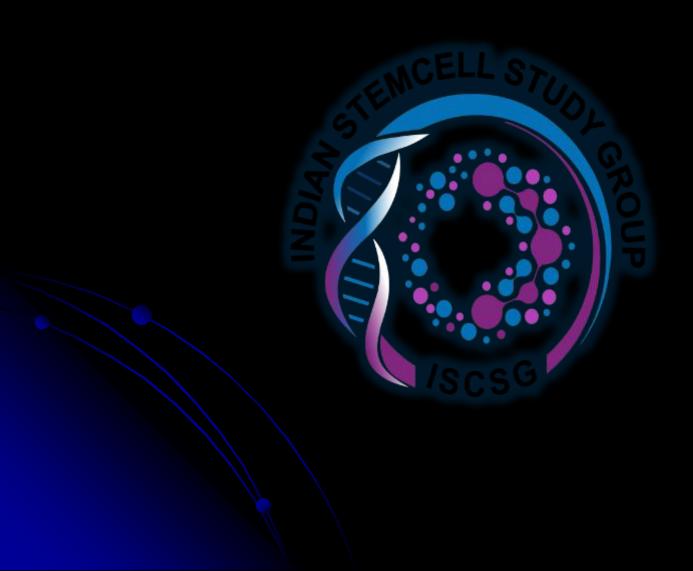
## Indian stem cell study Group Association





Indian stem cell study group is a research organization an registered All India body formed in 2016 with a Ethics committee



Prof. Dr.S.Sankaranarayanan MDS

Journey of many chronic diseases usually have Bumpy Roads ahead. Stem cells may reverse such conditions to some extent.



Blissful Medical Practice along with contribution toward the Research: Is the need of Humanity

"GREATMINDS DISCUSS IDEAS. AVERAGE MINDS DISCUSS EVENTS. SMALL MINDS DISCUSS PEOPLE."

# Late Prof Dr Shankarnarayan Oration started by ISCSG in 2019



## **PORTFOLIO**

Course	Year of Completion	University
BDS	May 1986	Annamalai University
MDS	March 1990	Govt Dental College , Chennai
Orthodontic Certificate Program me	April 1999	Royal London Hospital – London UK
Stem Cell: Emerging Therapies, Certificate Programme	July 2009	New york State Dental Association
Diploma Oral Laser	Feb 2011	Vienna University, Austria



Worked as	Location	Years and Duration
Consultant Dental Surgeon  Member as Dental Surgeon in Trauma Team  Member as Surgical Oral Pathologist in Oral Cancer Management	Trichy - INDIA	March 1999 – Till Date
Consultant Dental Surgeon  Member as Dental Surgeon in Trauma Team  Member as Surgical Oral Pathologist in Oral Cancer Management	Trichy - INDIA	April 2000 – Till Date
Consultant Dental Surgeon - General Dental Prctice	Trichy - INDIA	Dec 1993 – Till Date
Consultant Dental Surgeon - General Dental Prctice	Trichy - INDIA	April 1991 – Feb 1996
	Consultant Dental Surgeon  Member as Dental Surgeon in Trauma Team  Member as Surgical Oral Pathologist in Oral Cancer Management  Consultant Dental Surgeon  Member as Dental Surgeon in Trauma Team  Member as Surgical Oral Pathologist in Oral Cancer Management  Consultant Dental Surgeon - General Dental Prctice  Consultant Dental Surgeon - General Dental	Consultant Dental Surgeon  Member as Dental Surgeon in Trauma Team  Member as Surgical Oral Pathologist in Oral Cancer Management  Consultant Dental Surgeon  Member as Dental Surgeon  Member as Dental Surgeon in Trauma Team  Member as Surgical Oral Pathologist in Oral Cancer Management  Consultant Dental Surgeon in Trauma Team  Member as Surgical Oral Pathologist in Oral Cancer Management  Consultant Dental Surgeon - General Dental Pretice  Consultant Dental Surgeon - General Dental Surgeon - General Dental

## **Skills and Expertise**

## Rich exposure and tremendous experience in

- Diagnosing Interesting Clinical cases and Slide Reporting
- Associated with Plastic Surgeons in the Management of Facial Injuries and Fracture in more than 1000 recorded cases
- Diagnosing and Managing Various types of Oral Ulcers was his Passion.
- Unmatched Knowledge in Managing simple Straight Wire Orthodontic appliacations.
- And Feather on the cap was huge number of crown and bridge work ,endodontic treatment done by him .

# Endless list of Key Note Lectures & Presentations

## Few of them:

- Scanning Electron Microscopic Study in Oral submucous Fibrosis (OSMF)
- Pathologists Perspective in the Evaluation of the Prognosis in Oral Cancer.
- Temporomandibular Joint Disorders Headache in Dentistry
- Autologous bone marrow stem cells in the treatment of oral sub mucous fibrosis" at 6th International Society o Stem cell Research (ISSCR) annual meeting in Philadelphia, USA.

Journal of Indian Academy of Oral Medicine and Radiology, January-March 2013;25(1):1-4

#### INVITED RESEARCH ARTICLE

# Autologous Bone Marrow Concentrate (Mononuclear Stem Cell) Therapy in the Treatment of Oral Submucous Fibrosis

Sankaranarayanan Seshadri, S Kailasam, S Elangovan, VR Ravi, Sonali Sarkar

# Treatment of osteoradionecrosis of mandible with bone marrow concentrate and with dental pulp stem cells



K. Manimaran, S. Sankaranarayanan<sup>1</sup>, V. R. Ravi<sup>2</sup>, S. Elangovan<sup>3</sup>, M. Chandramohan, S. Mahendra Perumal

Annals of Maxillofacial Surgery | July - December 2014 | Volume 4 | Issue 2

# Regeneration of mandibular ameloblastoma defect with the help of autologous dental pulp stem cells and buccal pad of fat stromal vascular fraction



K. Manimaran, Rohini Sharma<sup>1</sup>, S. Sankaranarayanan<sup>1</sup>, S. Mahendra Perumal

Annals of Maxillofacial Surgery | January - June 2016 | Volume 6 | Issue 1



#### Publications:

- 1. Sankaranarayanan S et al., Headache in Dentistry Seahorse Bulletin 1995
- 2. Sankaranarayanan S et al., Maxillary Non Hodgkins Lymphoma, Journal of Oral and Maxillofacial Pathology, 34-36;9(1):2005.
- 3. Sankaranarayanan S et al., Lymphoma in the Maxilla Case Study; IAOMP Aug 2005
- 4. Sankaranarayanan S, Ramachandran C, Padmanabhan J, Manjunath S, Baskar S, Senthil Kumar R, Abraham S. "Novel approach in the management of an oral premalignant condition A case report", JSRM 3(1); P-21, 2009.
- 5. Dr Nadeem Jeddy, Dr P. Sivakumar, Dr Sankaranarayanan. "Diagnosis of gingival enlargement in clinical practice", Andhra Pradesh State Dental Journal 2 (1):2009.
- 6. Actinic Chelities Report of Two Cases. Clinical Dentistry. 9-13;3(8): Aug 2009.
- 7. Sankaranarayanan S. "Autologous bone marrow stem cells for treatment of oral submucous fibrosis-2 case report with 2 years follow up". SCAAT. Stem Cells And Aging Therapy. 1, 2009

#### Journal of Stem Cells & Regenerative Medicine

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JSRM/Vol3 No.1, 2007; p19

#### Proceedings of the Annual Symposium on Regenerative Medicine(PASRM)

Novel approach in the management of an oral premalignant condition - A case report

Sankaranarayanan S\*<sup>1</sup>, Ramachandran C<sup>1</sup>, Padmanabhan J<sup>2</sup>, Manjunath S<sup>3</sup>, Baskar S<sup>3</sup>, Senthil Kumar R<sup>3</sup>, Abraham S<sup>3</sup>.

Journal of Stem Cells Volume 8. Number 2

Seshadri Sankaranarayanan

ISSN: 1556-8539 2014 © Nova Science Publishers, Inc.

Periodontal Regeneration by Autologous Bone Marrow Mononuclear Cells Embedded in A Novel Thermo Reversible Gelation Polymer - Report with 36 Months Follow-Up

## DENTAL PULP STEM CELLS FOR TREATING UNHEALED DIABETIC FOOT ULCER: A PIONEERING ATTEMPT:

JIDAT, Vol.4, Iss. 15, Oct.-Dec.-2012

Dr. Sankaranarayanan¹ M.D.S., Dr. P. Ramachandran²M.S., Mch., Dr. V. R. Ravi³M.B.B.S., M.S., Dr. Divya A⁴, MDS,



- 8. Sankaranarayanan S et al., "Oral Lichen Planus Clinical Diagnosis and Treatment". Andhra Pradesh State Dental Journal. 2(3): 2009.
- 9. Sankaranarayanan S et al., "Denture Stomatitis: Treatment with Diode Laser". International Journal of Prosthodontics and restorative Dentistry. 55-57; 1(1):2010
- 10. Sankaranarayanan S et al., "Giant Recurrent Pyogenic Granuloma; A case report." JIDAT,2(6):2010.
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- 12. Sankaranarayanan S, Ramachandran P, Ravi VR. "Dental pulp stem cells for treating diabetic ulcers: A Pioneering Attempt". JIDAT, 4(5):2012.
- 13. Sankaranarayanan S. "Stem cell therapy in oral disease and dental pulp stem cell clinical application". J Tissue Sci. Eng. 3(3); 120, 2012.
- 14. Seshadri Sankaranarayanan, Kailasam S, Elangovan S, Ravi VR, Sonali Sarkar. "Autologus Bone Marrow concentrates (mononuclear stem cell) therapy in the treatment of Oral submucous fibrosis". Journal of Indian Academy of Oral Medicine and Radiology, 25(1):2013.

## Autologous Buccal Pad of Fat Stromal Vascular Fraction Used To Regenerate Larger Defect Due to Maxillary Dentigerous Cyst

K. Manimaran<sup>1</sup>, K. Arunkumar<sup>3</sup>, M. Chandramohan<sup>1</sup>, S. Mahenderaperumal<sup>1</sup>, S. Sankaranarayanan<sup>2</sup>, D Avinash Gandi<sup>2</sup>, Rohini Sharma<sup>2</sup>

Journal of Stem Cells Volume 11, Number 3

ISSN: 1556-8539 © 2016 Nova Science Publishers, Inc.

# Mandibular Reconstruction in Ameloblastoma Using Allogeneic Cord Stem Cells and Alloplastic Graft Material- Case Report

K Manimaran<sup>1</sup>, M Chandramohan<sup>1</sup>, R Kannan<sup>1</sup>, S Sankaranarayanan<sup>2,\*</sup>, VR Ravi<sup>2</sup> and Rohini Sharma <sup>2</sup>

Intra-articular injection of bone marrow concentrate protocol for Osteoarthritis -A preliminary report with 12 months follow up

VR Ravi<sup>1,\*</sup>, Avinash Gandhi<sup>2</sup>, S. Sankaranarayanan<sup>3</sup>, K. Manimaran<sup>4</sup>

DOI: 10.18231/2455-6777 .2017.0002

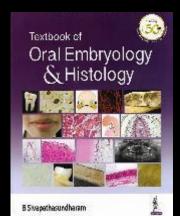


- 15. Seshadri Sankaranarayanan, Nadeem Jetty, Jayaprakash S. Gadagi, Senthilkumar Preethy and Samuel JK Abraham, "Periodontal Regeneration by Autologous Bone Marrow Mononuclear Cells Embedded in A Novel Thermo Reversible Gelation Polymer Report with 36 Months Follow-Up". Journal of Stem Cells. 8(2): 2014.
- 16. Sankaranarayanan S et al., "Treatment of Osteoradionecrosis of Mandible with Bone Marrow Concentrate and with Dental Pulp Stem cells", Annals of Maxillofacial Surgery. 4(2):2014; 189-192.
- 17. Manimaran, K., R. Sharma, S. Sankaranarayanan and S. Perumal (2016). "Regeneration of mandibular ameloblastoma defect with the help of autologous dental pulp stem cells and buccal pad of fat stromal vascular fraction". Annals of maxillofacial surgery 6(1): 97-100.
- 18. K. Manimaran, M. Chandramohan, R. Kannan, S. Sankaranarayanan, V.R. Ravi, and Rohini Sharma (2016), "Mandibular Reconstruction in Ameloblastoma Using Allogeneic Cord Stem Cells and Alloplastic Graft Material". Journal of Stem Cells. 11(3):2016

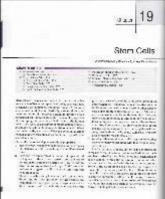
- 19. Marimaran K, Sankaranarayanan et al., (2016), "Interaction of Human Dental Pulp Stem Cells and Ameloblastic Cell In-vitro- A Preclinical Analysis" Indian Journal of Dental Research (Accepted)
- 20. VR Ravi, Avinash Gandi, S. Sankaranarayanan, K. Manimaran (2017), "Intra-articular injection of bone marrow concentrate protocol for Osteoarthritis A preliminary report with 12 months follow up" Journal of Indian Orthopaedic Rheumatology Association; January-June 2017:3(1);8-14

#### Authored a Chapter – "STEMCELLS" in book titled "Textbook of Oral Embryology&

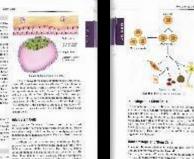
#### Histology" by JayPee Publishers. PP274-281







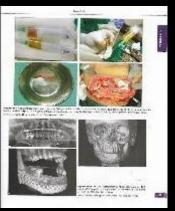
















## Membership

- Founder Member Indian Dental Association Trichy Branch
- Life Member Indian Association of Oral Maxilofacial Pathologist – India
- Member Indian Dental Association
- Ethical committee member Life Cell Stem Cell Banking & Ramachandra Medical College

## Awards

- Life Time
   Achievement Award
- Vijaya Award







# PRP POWDER READY TO USE REMEDY FOR WOUND HEALING







The Freeze dried plasma/Lyophilized plasma as a powder for sudden massive blood loss.

The powder can be reconstituted with in 2 minutes of time and can be given intravenously to save the Life. It can be used in war front & this was his dream by which he wanted to Serve the Nation.

Because at far of war side places we do not have blood banks so this modality can be very useful & worthwhile.



## Regional Newspapers

வெத்தந்தி திருச்சி 1-11-200

#### ஸ்டெம் செல் சிகிச்சையில் வாய் பூட்டு கோயை குணமாக்கலாம்

Stor Bar.I-MULTIN BILLIAN BATTON என்.சி. ஆர்.எம். என்ற இறுவனம் மருத்துவ துறையில் புத்துவிர் அளிக்கும் செல் சிகிச்சை அராய்ச் சியில் சுடுபட்டு உள்ளது இந்த DIENT THE Balenassa ஆன்டு நிறைவு விழா சென்னை யில் நடந்தது கண்கியுபோ மின காயா கலையை தாங்கினார். ADO DOS BUSTO CONTRACTOR SUDEREN LIEU LITALIT BRUST நாராயலான் கலந்து கொண்டு GLIBIOTITITE, CONTROLLINE TO CIBETEL என்ற நோய் பொதுவாக இளம் வய்கள்ளை அதிகமாக தாக்க ALLENS AND HER PRESENT OF BEE வில்லை என்றால் வாய்பற்றுதோ வாக மாறும் வாய்ப்பு மிகவும் அடுகமாகும். 2001-ம் ஆன்டின் BOWN AND CONTRACT OF CONTRACT OF CONTRACT 5 மில்லியன் இந்திய மக்களை பாதித்து உள்ளது. தற்போகைய சிகிச்சை முறையில் பலன் குறை வாக இருப்பதால் புதிய முறை தேவைப்படுகிறது. அதனால் தான் ஜப்பான் நிறுவன் டாக்டர் ஆபிரகாமுடன் இணைந்து உல கவேயே முதன் முறையாக வாய் புற்று நோய்க்கு ஸ்டெம் செல் சிவிச்சை முன்றவை செய்தார். இந்த சிதிச்சையில் தோயாளியின் இடுப்பு எலும்பு மற்றையில் Dougl desch ethesium ( எடுடல் செல் பிரித்து எடுக்கப் பட்டு சிகிச்சை அளிக்கப்படுகி றது என்று டாக்டர் சங்கரதாரா யணை பெரினார். இந்த கருந்த ரங்கில் டாக்டர்கள் கனிதாவு விமா, சுறாதா மொகத்தி உள்பட

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\* \* \*07-03-2014

தஞ்சை மாலைமுறசு -திருச்சி பதிப்பு



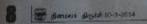
#### திருச்சி கேசியகல்லாரியில் கருக்கரங்கம்

9-ந் தேதி நடக்கிறது Bosab, conta. 7-

இருச்சி தேசிய கல்லூரி முதல்வர் அன்பரக, டாக்டர் ரவி, டாக்டர் அவினாஸ் ஆகியோர் நிருபர்களிடம் கூறியகாவகு:-

இருச்சு தேசிய கல்லூரி யில் உயர்தொழில்நுட்புக் துறை, தாய் செல் புக்குமிர் மையம், மாருஇ மருக்குவ மனை சார்பில் ஸ்டெம் செல்களின் மருத்துவப்ப யன்பாடுகள் என்ற தலைப் பில் ஒருநாள் கருத்தரங்கம் இருச்சி தேசியக்கல்வரியில் வருறை 9-ற் தேதி காவை 9.30 மணிக்கு நடக்கிறது. 150 மாணவ, மாணவிகள். டாக்டர்கள் கலந்து கொள்கி றார்கள். ஸ்டெம்ஸ் செல் என்பது உடலில் காயங் களை ஆற்றக்கூடிய அகார செல். எலும்பு, தசை, கொழுப்பு, பல்

உறுப்புகளிலிருந்து ஸ்டெம் செல்களை பிரித்கெடுக்க லாம். இது தொடர்பாக 9-க் தேதி நடக்கும் மாநில கருக் தரங்கில் இந்திய மருக்குவக் கழகத்தில் தலைவர் டாக்டிர் அஷாப், தாய்செல் புத்துயிர் மையத்தின் இயக்குனர் டாக்டர் ரவி, டாக்டர்கள் экіжаварашының, Сырып ஆனந்த், குமார், பேராகிகி யர் அக்பர்ஷா, டாக்டர்கள் வித்யா ரவி, ராஜ்குமார், செருந்தா, கோனசெல்வன் ஆகியோர் சிறப்புரையாற்று கின்றனர். மாணவர்கள் மக் டுயில் விழிப்புணர்வு ஏற்ப டுக்குவகற்காக all with வினா, புகைப்படக்கண் காட்சி போட்டிகள் நடத்தப் படுகிறது. பின்னர் மாணவ். மாணவிகளுக்கு பரிக்கள் வழங்கப்படுகிறது. இதல் பொதுமக்களும் கலந்து கொள்ளலாம். இவ்வாறு அவர்கள் கூறினர். பேட்டி யின் போது பேராசிரியர்கள் கந்தர்ராமன், அபுபக்கர். ஐபிர், டாக்டர்கள் ரவி, அவி கார்வர் ஆகியோர் உடன் (2) (5666017).



ஸ்டெம்செல் சிகீச்சை புதிய மாற்றங்களை ஏற்படுத்தும்: டாக்டர் தகவல்

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## Newspaper - English

putation of the foot next only to road accidents, are the focus of many health campaigns and medical research worldwide.

Diabetic foot ulcers develop in patients are triggered by nerve damage or obstruction of arteries causing either lack of sensation in the foot or poor blood circulation. Amputation is adopted to prevent the ulcer from spreading to the rest of the body. But not all diabetic ulcers heal quickly, for which stem cell therapy is becoming a popular option.

A team of city doctors claim to have pioneered treatment for foot ulcers using dental

Mother Cell Regeneration Centre, Tiruchi, was published in the October-December issue of the Journal of Tamil Nadu Indian Dental Association (JIDAT). "Almost 50,000 amputations are reported in India each year according to a study by a Chennai facility. If left untreated, patients with diabetic foot ulcer may develop serious cardiac and renal complications," says Dr. Sankaranarayanan.

#### Ideal for older patients

The team has successfully used stem cells from bone marrow to treat oral sub mu-

conducted to determine blockage of blood vessels in patient and stem cells are injected along the course of the blocked arteries from the top to the toe with one cm gap. "Dental pulp stem cell restore nerve sensation and blood vessel regeneration that help the ulcer to heal fast," says Dr. Sankaranarayanan. The procedure can be used to heal unhealed ulcers caused by one digit amputation, anterior foot amputation. "The goal is to heal the wound and prevent further amputation."

Only 15 per cent of patients with diabetic foot ulcers may require stem cell therapy. If

## **Experts stand by stem cell therapy**

ICMR Urged By Doctors, Biotechnologists To Provide Guidelines About Research

Trichy: India is lagging beand mestara countries instemself therapy as our doctors are set to realise its full benefits, noted the sterioul findertity at a meet held here on Sonday. Doctors and biotechnologists should contribute more to the thevelopment of the stem cell research and therapy they urged. The meet was organised by the biotechnology depart ment of Noticeal College, along with a private body to propagate the importance of the emerging field

In som cell therapy new adult stem cells are introduced one damaged tissue to treat iscase or interv. A section of



the doctors open the lock of clear guidelines to approve tesearch in stem cell methodologies. "The Indian Council for Medical Research should make deer guidelines to approve te- from "Irachy and Christothe search and for employment." Does it seem cell therapy

Stem cell-derived models have the potential to replace animal testing. Researchers should be properly trained in cell culture techniques so as to involve them actively in research Dr M A Akbarsha | coccros.

MAKATHAR SANGAR GODES AND CORTES searches on stem cells," said a

declar on the condition of ano-Dorsors, medical students and browshingly students made them actively in re-glassed about laborators prac-

rem perturpored in the meet said De Aldsarsha De J Grana where the latest developments selven, ophthalmology profesto the field of stem cells were sor of at Thirptowar Medical discussed Dr M Ru Kumar College, spose on the benefits bead of vascular surgery de of stem cells treatment in our pertment at the Mathres Medi- ing eye discusses. "Limbal stem calCollege prevented his study ords are responsible for ou on treating diabetic flot ulcors - next tasks repair and regener

of Mahasma Gandho Doran - therapeutic option for chem Kamp Centre, Sturstholasan (cs.), thermal burns and for Ste University, said then cells were Johnson syndrome "said considire used to develop to viti. Dr Gramaselvan. ro models for drug discovery. "Stem cell-derived models cell treatment has been in have the potential to replace proving in government house animal testing. Researchers this, Dr M S Mohamed Jaubin should be properly trained in assistantiniotechnology profes rell'exiture techniques sous to nor of National College, ea

undsmoking-related diseases after throughout life Limbs Br M A Akbarsha, director storn cell transplantation is

The experts noted that storn

Hopefully we would get the power to make ISCSG grow from our Vision

What we require is lot of Scarifices, risks and innovations

Dr Shankarnarayan has done his job but we need to carry the Legacy left by him forward

## **Indian stem cell study Group aims**

 To create awareness among clinicians, researchers about the regenerative science & newer development in the Field.

To reuse, favour and stimulate all efforts to do Research work.



- To Create and develop international scientific relation with rest of the world.
- To elaborate, deepen and radiate the knowledge acquired in the domain and impart to those who ask for it.
- To represents this branch of medical knowledge at National & International level.
- To do all sorts of work related with the sesaid Field



## www.indianstemcellstudygroup.com

# Write ups on the website for public awareness

## INDIAN STEMCELL STUDY GROUP ASSOCIATION (ISCSG)

(An All India Registered Association)

Reg. No- 1.UC/07484/2018-19



#### UNDERTAKING BY AUTHOR

I, the undersigned as a member of Indian stem cell study group association give an undertaking to the following effect with regard to our write ups/ research papers submitted for online display/ publications at website www.indianstemcellstudygroup.com/in International Journal of orthopaedic Rheumatology I contributed significantly towards the research study i.e., conception, design and/or analysis and interpretation of data and writing the article in its present form. I undertake to indemnify and keep indemnified various write ups against any third party or government claims/ disputes with respect to the said data. I understand that <a href="https://www.indianstemcellstudygroup.com">www.indianstemcellstudygroup.com</a> is displaying the article/ publishing them on as is received basis without examining the contents or authority of the author for which I Dr as the author shall have the sole responsibility.

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Date:

Place

## Available Write ups

- 1 Role of Progenitor cells in OA
- 2 Regenerative role in Critical Limb Ischemia
- 3 Muscular Dystrophy and Regenerative Science
- 4 Optimization of Stem Cells for Clinical Practice

## Available Write ups

- 5 Regenerative approach to chronic Rotator cuff Injuries.
- 6 Role of stem cells in Rheumatoid Arthritis
- Stem cell therapy for acute and chronic liver diseases: A therapeutic challenge
- Evaluating the right source of Mesenchymal Stem cells for Clinical application in osteoarthritis and bone defects

## Criteria ISCSG Gold Medal for Best Research paper for Young Researcher

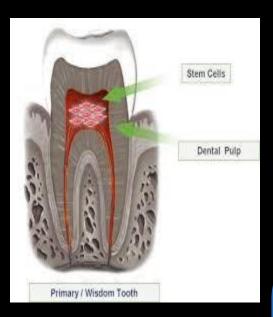
- Individual should be a IORA/ISCSG member,age should be under Forty
   as IORA/ISCSG want to promote younger Generation.
- Should not be a member of ISCSG EC
- Should be ready to submit the paper for publication in IORA indexed Journal –JIORA
- Paper should not be published elsewhere at the time of presentation in Conference.





Dr Shankarnarayan a visionary. **The First person** to treat Oral submucous
Fibrosis and proved with Histopathology

**The First person** to treat Osteoradionecrosis mandible with stem cells and thus regenerated Mandible.



## Yes it was he who proved the superiority of dental pulp stem cells over other sources of stem cells.

He quantified that millions of stem cells can be obtained from one extracted tooth which we discard as such.

Proved these can be Specially useful in Diabetic Foot ulcer treatment.

 He always motivated other stalwarts of Indian stem cell study Group core team to continue doing Ethical research work.

 He was rather a very dear peson to many Regulators due to his this unmatched ethical approach to the Regenerative Science Research.



Prof. Dr.S.Sankaranarayanan MDS