Volume 14

Number 2

**April-June 2020** 



# Indian Journal of Forensic Medicine & Toxicology

Website: www.ijfmt.com



Official Organ of Indian Association of Medico-Legal Experts (Regd.)

## Indian Journal of Forensic Medicine & Toxicology

#### **EDITOR** in Chief

#### Prof. R K Sharma

Formerly at All India Institute of Medical Sciences, New Delhi, E-mail: editor.ijfmt@gmail.com

#### Prof. Dr. Adarsh Kumar

Forensic Medicine & Toxicology, AIIMS, New Delhi

#### INTERNATIONAL EDITORIAL ADVISORY BOARD

- Prof Mete Gulmen Cukurova University, TURKEY
- Prof. Leandro Duarte De Carvalho, Minas Gerais, Belo Horizante,
- Prof. Donata Favretto (Full Professor) Forensic Toxicology at University
- Prof. Babak Mostafazadeh Department of Forensic Medicine & Toxicology, Shahid Beheshti University of Medical Sciences, Tehran-Iran
- Prof Halis Dokgoz, Mersin University, TURKEY
- Prof Jozef Sidlo, Comenius University, Bratislava, SLOVAKIA
- Dr. Rahul Pathak (Lecturer) Forensic Science, Dept of Life Sciences Anglia Ruskin University, Cambridge, United Kingdom
- Dr. Hareesh (Professor & Head) Forensic Medicine, Ayder Referral Hospital, College of Health Sciences, Mekelle University, Mekelle Ethiopia East Africa
- Dr. Mokhtar Ahmed Alhrani (Specialist) Forensic Medicine & Clinical Toxicology, Director of Forensic Medicine Unit, Attorney General's Office, Sana'a, Yemen
- 10. Dr. Sarathchandra Kodikara (Senior Lecturer) Forensic Medicine, Department of Forensic Medicine, Faculty of Medicine, University of Peradeniya, Sri Lanka
- 11. Dr Noha A. Magdie El Rafie, Forensic Toxicology, Ain Shams University, Cairo, EGYPT

#### **SCIENTIFIC COMMITTEE**

- Prof Udai Pratap Singh, Department of Anthropology Lucknow University Lucknow
- Dr Anil Rahule (Associate Professor) Dept of Anatomy, Govt Medical

#### College Nagpur

- Dr Shankar Bakkanwar (Associate Professor) Forensic Medicine, Kasturba Medical College, Manipal, Karnatakad
- Dr K. Ravikumar Raksha Shakti University, Ahmedabad, Gujrat.
- Dr. Pragnesh Parmar (Associate Professor) Forensic Medicine, Valsad, Gujrat
- Dr Vandana Mudda (Awati) (Associate Prof) Dept of FMT, M.R.Medical College, Gulbarga, Karnataka,
- Dr. Asha Srivastava (Senior Scientific Officer) Forensic Psychology,

Central Forensic Science Laboratory, CBI, Delhi

- Dr. Lav Kesharwani (Asst.Prof.) School of Forensic Science, Sam Higginbottom Institute of Agriculture Technology & Sciences, Allahabad U.P
- Dr. Anu Sharma (Associate Prof) Dept of Anatomy, DMCH, Ludhiana

- Dr. Shalini Gupta ( Prof ) Oral Pathology and Microbiology, Dental Sciences King George Medical University, Lucknow, UP
- 11. Dr Rituja Sharma, Associate Prof, Law Banasthali Vidyapeeth Jaipur

"Indian Journal of Forensic Medicine & Toxicology" is peer reviewed quarterly journal. It deals with Forensic Medicine, Forensic Science, Toxicology, DNA fingerprinting, sexual medicine and environment medicine. It has been assigned International standard serial No. p-0973-9122 and e- 0973-9130. The Journal has been assigned RNI No.

Abstracts (CAS) database (USA. The journal is also covered by EBSCO (USA) database. The Journal is now part of UGC, DST and CSIR Consortia. It is now offical publication of

DELENG/2008/21789. The journal is indexed with Index Copernicus (Poland) and is covered by EMBASE (Excerpta Medica Database). The journal is also abstracted in Chemical

### NATIONAL EDITORIAL ADVISORY BOARD

Prof Sudhir K Gupta - Head, Department of Forensic Medicine All India Institute of Medical Sciences, New Delhi

- 1. Prof. SK Dhattarwal, Forensic Medicine, PGIMS, Rohtak, Haryana
- 2. Prof. N K Aggrawal Forensic Medicine, UCMS, Delhi
- Prof Ajay Ghangale Forensic Medicine Dr DY Patil Medical College, Pune. Maharashtra
- Dr. Amar Jyoti Patwory Professor, Forensic Medicine NEIGRIHMS,
- Dr S. Venkata Raghava Professor, Forensic Medicine, Banglore Medical College, Bengaluru
- Prof Praveen Arora, Professor Department of Forensic Medicine & Toxicology, SAIMS, Indore
- Dr. Pankaj Datta (Principal & Head) Department of Prosthodontics, Indraprastha Dental College & Hospital, Ghaziabad
- Dr. Mahindra Nagar (Head) Department of Anatomy, UCMS & GTB Hospital, Delhi
- Dr. Virender Kumar Chhoker Professor Forensic Medicine and Toxicology, Santosh Medical College, Ghaziabad, UP
- 10. Dr. Dayanand G Gannur (Professor) Department of Forensic Medicine & Toxicology, Shri BM Patil Medical College, Hospital & Research centre, Bijapur, Karnataka
- 11. Dr. Alok Kumar Professor Department of Forensic Medicine & Toxicology, UP Rural Institute of Medical Sciences and Research, Saifai, Etawah, U.P.

#### Print-ISSN:0973-9122 Electronic - ISSn: 0973-9130

Frequency: Quarterly, © All Rights reserved The views and opinions expressed are of the authors and not of the Indian Journal of Forensic Medicine & Toxicology. Indian Journal of Forensic Medicine & Toxicology does not guarantee directly or indirectly the quality or efficacy of any products or service featured in the advertisement in the journal, which are purely commercial.

#### Website: www.ijfmt.com

Editor

Dr. R.K. Sharma

Institute of Medico-legal Publications

Logix Office Tower, Unit No. 1704, Logix City Centre Mall, Sector- 32, Noida - 201 301 (Uttar Pradesh)

Printed, published and owned by

Dr. R.K. Sharma

Institute of Medico-legal Publications Logix Office Tower, Unit No. 1704, Logix City Centre Mall, Sector- 32, Noida - 201 301 (Uttar Pradesh)

#### Published at

Institute of Medico-legal Publications

Indian Association of Medico-Legal Experts (Regd.).

Logix Office Tower, Unit No. 1704, Logix City Centre Mall, Sector- 32, Noida - 201 301 (Uttar Pradesh)



# **Indian Journal of Forensic Medicine & Toxicology**

Contonto	
Contents	

Volume 14, Number 2

**April-June 2020** 

1.	Morphology of Palatal Rugae in Various Sagittal Skeletal Malocclusions in Kerala Population- A Retrospective Study	
	Crystal Runa Soans, Azhar Mohammed, Murali PS, Mcqueen Mendonca, Prajwal Shetty, VartikaKuma	ri
2.	Analysis of Hospital Deaths at Tertiary Care Teaching Hospital	8
3.	Study of Fingerprints in Relation to Dental Caries	13
4.	Trends & Pattern in Unnatural Female Death Cases Due to Burn: A One YearRetrospective Study  Manjit Nayak, Saumil Merchant, Kalpesh Shah	19
5.	Effectiveness of Structured Exercise Programme Versus Elastic Band Exercise on Individuals with Rounded Shoulder	24
	Geetan Manoj Pathak , Khushboo Chotai , Smita Patil , Amrutkuvar Rayjade	
6.	Effectiveness of Cognitive Therapy in Post-Menopausal Women	29
7.	Effect of Meditative Movement Exercises with Breath Control on Depression in Nulliparous Women  Mrunmayi Sandip Gadre, T Poovishnu Devi	33
8.	To Assess Dentist Knowledge About Lipid Treatment of Local Anesthetic Systemic Toxicity	37
9.	Assessment of Medico- Legal Awareness of Practicing Obstetricians and Gynecologists	41
10.	Pattern of Cranio-Cerebral Injuries at a Tertiary Care Centre – A Retrospective Study	45
11.	Profile of Deaths Due to Poisoning: Autopsied at Ssims & Rc - A Cross Sectional Study	49
12.	Scope of Periodontium in Forensic Science	54
13.	Touch Dna as Forensic Aid: A Review  Indresh Kumar Mishra, Bhoopendra Singh, Amarnath Mishra, Braja Kishore Mohapatra, Ruchika Kaushik. C Behera	58

261.	The effect of Empowerment Program on Participation of Mothers with Premature Infants Hospitalized in Neonatal Intensive Care Unit  Hania Sajadi, Golbahar Akhundzadeh, Hamid Hojjati*	1511
262.	Association of Diffusion Weighted Magnetic Resonance Imaging Profile and Apparent Diffusion Coefficient Value with Brain Tumor's Histopathology  Hartati Rusmi Tri Wilujeng, Anggraini Dwi Sensusiati, M. Yamin Sunaryo Suwandi	1517
263.	Mitochondrial 16S rRNA gene-dependent Blood typing as a Forensic Tool	1525
264.	Curcumin Improves the Regulation of Ovarian Folliculogenesis in Culture Media with Peritoneal Fluid from Infertile Women with Endometriosis	1534
265.	Correlation of Fugl-Meyer Assesment Score with Barthel Index and Functional Independence Measure in Patients with Stroke	1540
266.	Determination of Priority Elements of Vigilance in the Use of Pesticides based on Difficulty and Usefulness (A Supporting Study for Law and Policy in Health)	1546
267.	The Association Between Myoglobin, Troponin I, Hfabp and Nt-Probnp Levels with Acute Myocardial Infarction in Patients with Acute Coronary Syndrome	
268.	Evaluation of Some Inflammatory Cytokines and Glycated Hemoglobin in Uncontrolled Type 2 Diabetes Mellitus with Nephropathy	1559

also developed by scimago:





Scimago Journal & Country Rank Enter Journal Title, ISSN or Publisher Name

Home

Journal Rankings

Country Rankings

Viz Tools

Help

About Us

H Index

# Indian Journal of Forensic Medicine and **Toxicology**

Country

India - IIII SIR Ranking of India

**Subject Area and** Category **Environmental Science** 

Health, Toxicology and Mutagenesis

Medicine

Pathology and Forensic Medicine

Pharmacology, Toxicology and Pharmaceutics

Toxicology

**Social Sciences** 

Law

**Publisher** 

Indian Journal of Forensic Medicine and Toxicology

**Publication type** 

**Journals** 

**ISSN** 

09739122, 09739130

Coverage

2008-2019

Scope

"Indian Journal of Forensic Medicine & Toxicology" is a double-blind peer reviewed international journal. The frequency is quarterly. It deals with Forensic Medicine, Forensic Science, Toxicology, DNA fingerprinting, sexual medicine, environmental medicine, Forensic Pathology, legal medicine and public health laws.

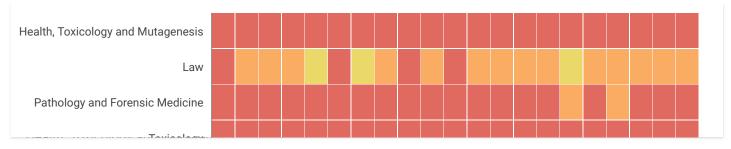
Homepage

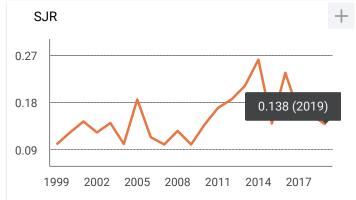
How to publish in this journal

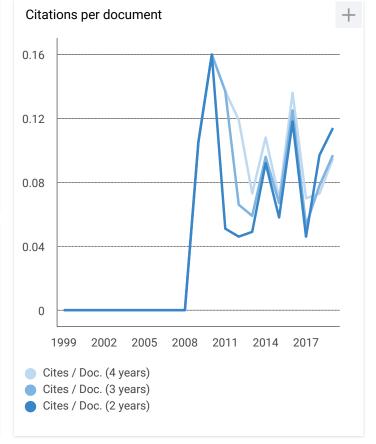
Contact

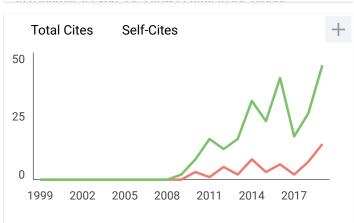
Join the conversation about this journal

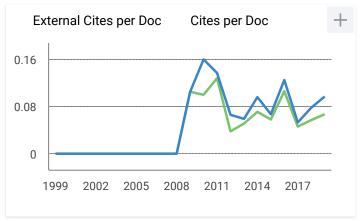
Quartiles

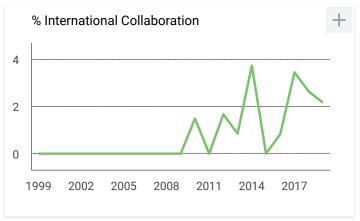












Citable documents Non-citable documents +



Home

Editorial Team

Article Submission

Subscriptions Informations

Issues

Publication Ethics

Contact Us



Deals with Forensic Medicine,
Forensic Science, Toxicology,
DNA Fingerprinting, Sexual Medicine, and
Environmental Medicine

#### **ABOUT JOURNAL**



#### You can see 2020 and 2019 issues here ---> Click on this link

where HTML and PDf copies are uplaoded

"Indian Journal of Forensic Medicine & Toxicology" is a double-blind peer reviewed international journal. The frequency is quarterly. It deals with Forensic Medicine, Forensic Science, Toxicology, DNA fingerprinting, sexual medicine, environmental medicine, Forensic Pathology, legal medicine and public health laws. It has been assigned International standard serial No. p-0973-9122 and e-0973-9130. The Journal has been assigned RNI No. DELENG/2008/21789. The journal is indexed with Scopus, EMBASE. The journal is also abstracted in Chemical Abstracts (CAS) database. The journal is also indexed /abstracted with many databases.

This is an open access journal which means that all content is freely available without charge to the user or his/her institution. Users are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles, or use them for any other lawful purpose, without asking prior permission from the publisher or the author. This is in accordance with the BOAI definition of open access.

**Aim and scope of Journal** 1.The journal intend to publish articles related to research in specialties of Forensic Medicine, Forensic Science, DNA fingerprinting, Toxicology, Environmental hazards, Sexual Medicine, Forensic Anatomy, Forensic Anthropology, Forensic Odontology, public laws, articles of immense medico-legal importance etc

- 2.Case reports, original articles and review articles are welcome.
- 3. The research regarding new concepts is encouraged.
- 4. We encourage research from developing countries.
- 5. The journal is open access.

#### **Important Information**

**Manuscript Submission fee** - There is no fee for manuscript submission. Manuscript can be submitted any time. Submission is always open

www.ijfmt.com

10/1/2020

**Manuscript Processing Charges**- We charge for manuscript processing from authors. Authors must pay charges only if the article is accepted for publication. The charges are per article. If some author does not want to pay, he can withdraw his article.

The charges are as follows

1. India and SAARC countries- Indian Rupees 10000/

2. Rest of world - US \$ 200

**Rebate / waiver policy -** Editor can give rebate/ wave off charges depending on author's status like student, no funding from any source, research from developing countries or research of exceptional status. Please write to Editor giving justification for rebate. Editor's decision is final and binding.

**Digital archiving Policy**- the issues of the journal are archived into PKP PN (Public Knowledge Project), LOCKSS and CLOCKSS

**Review Policy for articles**- The journal follows double blind peer review policy for all articles. Once the article is received, it is forwarded to our two reviewers after removing names of authors and their affiliations. Authors are also not informed names of reviewers. Reviewers send their comments in due course of time and these comments/ queries are forwarded to authors to make corrections or offer explanations. Once the reviewers are satisfied with corrections in manuscripts or explanations given by authors, authors are conveyed the decision of acceptance of article. If author/s refuses to make corrections as suggested by reviewers, manuscript is rejected for publication.

**Plagiarism checking policy**- The journal has zero tolerance policy for plagiarism. We regularly use software Dupli checker for detection of plagiarism.

**Licensing Policy** Articles in Indian Journal of Forensic Medicine & Toxicology journal are Open Access articles published under the Creative Commons CC BY License Creative Commons Attribution 4.0 International License Creative Commons CC . This license permits use, distribution and reproduction in any medium, provided the original work and source is properly cited.

**5.** Copyright Policy Authors who publish with this journal agree to the following terms: - Authors retain copyright and grant the journal right of first publication with the work simultaneously licensed under a Creative Commons Attribution License Creative Commons CC that allows others to share the work with an acknowledgment of the work's authorship and initial publication in this journal.

-Authors continue to retain publishing rights to the article without restrictions.

#### SCOPUS IJFMT CITATION SCORE

Indian Journal of Forensic Medicine and Toxicology ISSN:0973-9122 E-ISSN:0973-9130

Cite Score 2018- 0.08 SJR 2018- 0.155

SNIP 2018- 0.189

#### Click on the link for scopus

https://www.scopus.com/sourceid/19700174971?origin=sbrowse:

Email: <a href="mailto:editor.ijfmt@gmail.com">editor.ijfmt@gmail.com</a>
Website: <a href="mailto:www.ijfmt.com">www.ijfmt.com</a>

www.ijfmt.com 2/3

#### **OUR CONTACT INFO:**

Dr R K Sharma

#### **Editor, INDIAN JOURNAL OF FORENSIC MEDICINE & TOXICOLOGY**

**Institute of Medico-Legal Publications** 

Logix Office Tower, Unit No. 1704, Logix City Centre Mall

Sector- 32, Noida - 201 301 (Uttar Pradesh)

Email: <a href="mailto:editor.ijfmt@gmail.com">editor.ijfmt@gmail.com</a>
Website: <a href="mailto:www.ijfmt.com">www.ijfmt.com</a>

Visit our Website: www.imlp.in

www.ijfmt.com



Home

**Editorial Team** 

Article Submission

Subscriptions Informations

Issues

Publication Ethics

Contact Us



Deals with Forensic Medicine,
Forensic Science, Toxicology,
DNA Fingerprinting, Sexual Medicine, and
Environmental Medicine

#### **EDITORIAL PANEL**



#### **Editor in Chief**

#### Prof (Dr) R K Sharma

Former Head, Department of Forensic medicine & Toxicology All-India Institute of Medical Sciences, New Delhi, India

E-mail: editor.ijfmt@gmail.com

#### **Editor**

#### Prof. Dr. Adarsh Kumar

Forensic Medicine & Toxicology,
All-India Institute of Medical Sciences, New Delhi, India

#### **EDITORIAL ADVISORY BOARD**

- Prof Sudhir K Gupta, Head, FMT. AIIMS, New Delhi, India
  - Prof Mete Gulmen ,Cukurova University, TURKEY
  - Prof. Leandro Duarte De Carvalho ,
     Minas Gerais, Belo Horizante, BRAZIL
  - Dr. Valery Gunas, National Pirogov Memorial Medical University, Vinnytsya, UKRAINE
  - •
  - Dr. T. Nataraja Moorthy , Forensic Science, Faculty of Health & Life Sciences ,Management & Science University, MALAYSIA
  - Dr. Rahul Pathak Forensic Science,
     Dept of Life Sciences ,Anglia Ruskin
     University, Cambridge, UNITED
     KINGDOM

#### **EDITORIAL ADVISORY BOARD**

- Dr. Aparna R. Asst. Prof. Forensic Serology & Biology, Jain University, Bengaluru
- Dr. Deepali Jain, Asst Prof, Forensic Science ,BB Ambedkar University, Lucknow
- Prof. SK Dhattarwal, Forensic Medicine,
   PGIMS, Rohtak, Haryana
- Prof. NK Aggrawal Forensic Medicine, UCMS, Delhi
- Prof. Manoj Kumar Mohanty, Forensic Medicine, AIIMS, Bhuvneshwar, Odissha
- Prof. Amar Jyoti Patowary, Forensic Medicine, NEIGRIHMS, Shillong, Meghalaya
- Prof S. Venkata Raghava , Forensic Medicine, Banglore Medical College,

www.ijfmt.com/editorial.html

- Dr Noha A. Magdy Elrafie, Forensic Toxicology, Ain Shams University, Cairo, EGYPT
- Dr Rituja Sharma, Associate Prof, Law, Banasthali Vidyapeeth Jaipur
- Dr Shankar Bakkanwar (Associate Professor) Forensic Medicine, Kasturba Medical College, Manipal, Karnataka
- Dr K. Ravikumar , Raksha Shakti
   University, Ahmedabad, Gujrat.
- Dr C. Behera (Addl. Prof) Dept of FMT, AIIMS, New Delhi
- Dr. Kanak Lata Verma, Deputy Director, Toxicology ,RFSL, Chanakyapuri New Delhi
- Dr. Asha Srivastava (Senior Scientific Officer) Forensic Psychology, Central Forensic Science Laboratory, CBI, Delhi
- Dr. Raghvendra Kumar Vidua, (Associate Prof), FMT, AIIMS Bhopal
- Dr. Vaibhav Saran (Asst.Prof.) School of Forensic Science, Sam Higginbottom Institute of Agriculture Technology & Sciences, Allahabad

- Indian journal of Forensic Medicine & Toxicology

  Bengaluru
- Prof. Shalini Gupta Oral Pathology and Microbiology, Faculty of Dental Sciences, King George Medical University, Lucknow
- Prof. Virender Kumar Chhoker Forensic Medicine, Santosh Medical College, Ghaziabad, UP
- Prof. Dayanand G Gannur , Forensic Medicine , Shri BM Patil Medical College, Hospital & Research centre, Bijapur, Karnataka
- Prof Praveen Arora, Forensic Medicine, SAIMS, Indore, MP
- Prof Barkha Gupta , Saraswathi Institute of Medical Sciences Hapur, Uttar Pradesh India
- Prof M Prashant Apollo Medical College Hyderabad
- Prof Emilo Nuzzalese, University of Turin , Italy

#### **OUR CONTACT INFO:**

#### Dr R K Sharma

#### Editor, INDIAN JOURNAL OF FORENSIC MEDICINE & TOXICOLOGY

#### **Institute of Medico-Legal Publications**

Logix Office Tower, Unit No. 1704, Logix City Centre Mall

Sector- 32, Noida - 201 301 (Uttar Pradesh)

Email: <a href="mailto:editor.ijfmt@gmail.com">editor.ijfmt@gmail.com</a>
Website: <a href="mailto:www.ijfmt.com">www.ijfmt.com</a>

Visit our Website: www.imlp.in

Home | Editorial Teams | Article Submissions | Subscriptions Informations | Advertisements | Contact Us copyright2011@IJFMT

www.ijfmt.com/editorial.html 2/2



Home

Editorial Team

Article Submission

Subscriptions Informations

Issues

Publication Ethics

Contact Us



Deals with Forensic Medicine,
Forensic Science, Toxicology,
DNA Fingerprinting, Sexual Medicine, and
Environmental Medicine

#### **ISSUES**



Volume 14 (2020)

**Indian Journal of Forensic Medicine & Toxicology** 

Year 2020, Volume-14, Issue-1 (Jan-Mar)

Print ISSN: 0973-9122
Online ISSN: 0973-9130

Year 2020, Volume-14, Issue-1 (Jan-Mar)

**Indian Journal of Forensic Medicine & Toxicology** 

Year 2020, Volume-14, Issue-2 (April-June) (pre release)

Print ISSN: 0973-9122 Online ISSN: 0973-9130

Year 2020, Volume-14, Issue-2 (April-June)

Indian Journal of Forensic Medicine & Toxicology Year 2020, Volume-14, Issue-3 (July-September)

Print ISSN: 0973-9122
Online ISSN: 0973-9130

Year 2020, Volume-14, Issue-3 (July-September)

Volune 13 (2019)

**Indian Journal of Forensic Medicine & Toxicology** 

Year 2019, Volume-13, Issue-1 (Jan-March)

Print ISSN: 0973-9122 Online ISSN: 0973-9130

Year 2019, Volume-13, Issue-1 (Jan-March)

**Indian Journal of Forensic Medicine & Toxicology** 

Year 2019, Volume-13, Issue-2 (April-June)

Print ISSN: 0973-9122

www.ijfmt.com/issues.html