



MADHA DENTAL COLLEGE & HOSPITAL

(A Christian Minority Institution)

(Recognised by the Dental Council of India, New Delhi (F.No.v.12017/75/2006-DE dt.01.11.2011)
and affiliated to the Tamil Nadu Dr. M.G.R. Medical University, Chennai)

Madha Nagar, Kundrathur, Chennai - 600 069. Ph.: 72739 01234, 72749 01234, Fax : 2478 0798
E-Mail : info@madhadentalcollege.com Website : www.madhadentalcollege.com

Admin. Office : 1A, Chari Street, North Usman Road, T.Nagar, Chennai - 17. Ph : 2814 0212, Tele fax : 044-2814 0213

BEST PRACTICE 1

Modern Dentistry Practice school for Undergraduate students

Objectives

- To expose undergraduate dental students to contemporary state-of-the-art equipment and advanced techniques to uplift and strengthen their career opportunities
- To upgrade students' knowledge and understanding of advanced clinical practice and enhance their clinical skills through comprehensive training

Context

Madha Dental College and Hospital strives hard to make its students distinct in their clinical skills by equipping the Institution with modern equipment and adequate infrastructure, ensuring that students gain extensive exposure and training with state-of-the-art equipment.

The Practice

The program on "Modern Dentistry Practice school for Undergraduate students" was initiated for CRR/ CRI (Intern) students from November 2021 to uplift their Clinical skills and Knowledge in advanced dentistry. Students being posted in concerned Department gets trained in modern Dentistry during their posting period where lectures followed by hands-on demonstration are given by faculties in dummy and patients. The following state-of-the-techniques are taught to students by concerned speciality departments.

Department of Periodontics:

- LASER techniques** - Train in soft tissue Laser therapy (gingivectomy, flap surgery etc.), Laser-Assisted Periodontal Therapy (eg., Photo biomodulation therapy) and Minimally Invasive Procedures.
- Microsurgery** - Train to perform periodontal microsurgical procedures, where students are exposed to-and trained in magnification devices and advanced equipment's like Dental loupes, microsurgical blades, needles, and sutures (size: 6-0 to 9-0) for precise manipulation of tissues.


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Department of Oral & maxillofacial surgery:

c. **Piezo-surgery** – Training in piezo-electric surgical techniques which enables students to perform sinus lift procedure, wisdom tooth removal, implant site preparation, alveolar ridge splitting, bone graft harvesting and orthognathic surgery with confidence using piezoelectric unit.

Department of Conservative Dentistry and Endodontics:

d. **Micro Restorations & Endodontics** – Train to perform micro-restorations and endodontic procedures using Dental Operating Microscope under 25x magnification.

Department of Prosthodontics:

e. **Digital workflow in Prosthodontics** – Training in methods of using Intra-oral scanner (IOS), technique behind digital impression and digital workflow which equips them to pre-visualize the area of interest in 3D (oral cavity) and to deliver high quality prosthesis to patients at high accuracy digital cast with less distortion in reduced working time.

Evidence of success

Student's knowledge on advanced clinical skills improved from 38% (pre-training) to 87% (post-training), which implies that hands-on training improves student's level of understanding on state-of-the-art equipment's and techniques. Skills of the students in performing advanced clinical skills were evaluated at the end of training using pre-formed evaluation sheet. Nearly 82% of student's skills were above average in performing the procedures. Around 96.2% students found the training program to be very useful in uplifting their career opportunities and clinical skills.

Challenges faced

Financial constraint

Advanced equipment requires huge financial investment which impedes the procurement of multiple units. Consequently, students are required to wait for their turn to practice with the equipment which makes the training process more time consuming.


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Training and Expertise

Initially some students took time to adapt the modern equipment and techniques but through continuous guidance, they gradually improved their proficiency and successfully met their goals and targets.

Resources required

- Equipment maintenance
- Resource persons (manpower)
- Additional Time


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MODERN DENTISTRY PRACTICE SCHOOL

DIGITAL WORKFLOW IN PROSTHODONTICS




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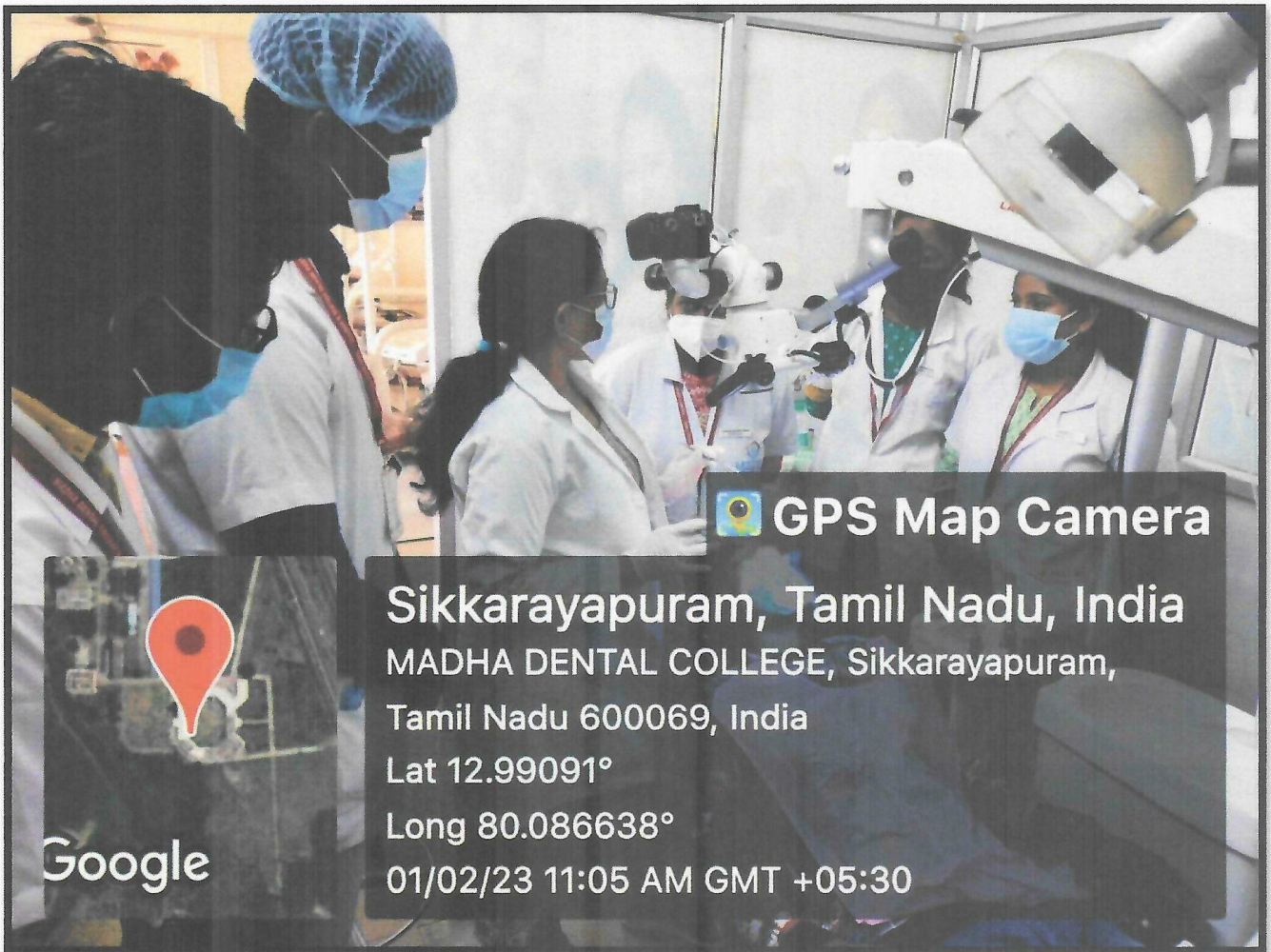
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MODERN DENTISTRY PRACTICE SCHOOL

MICROENDODONTICS



 **GPS Map Camera**

Sikkarayapuram, Tamil Nadu, India

MADHA DENTAL COLLEGE, Sikkarayapuram,

Tamil Nadu 600069, India

Lat 12.99091°

Long 80.086638°

01/02/23 11:05 AM GMT +05:30

Google

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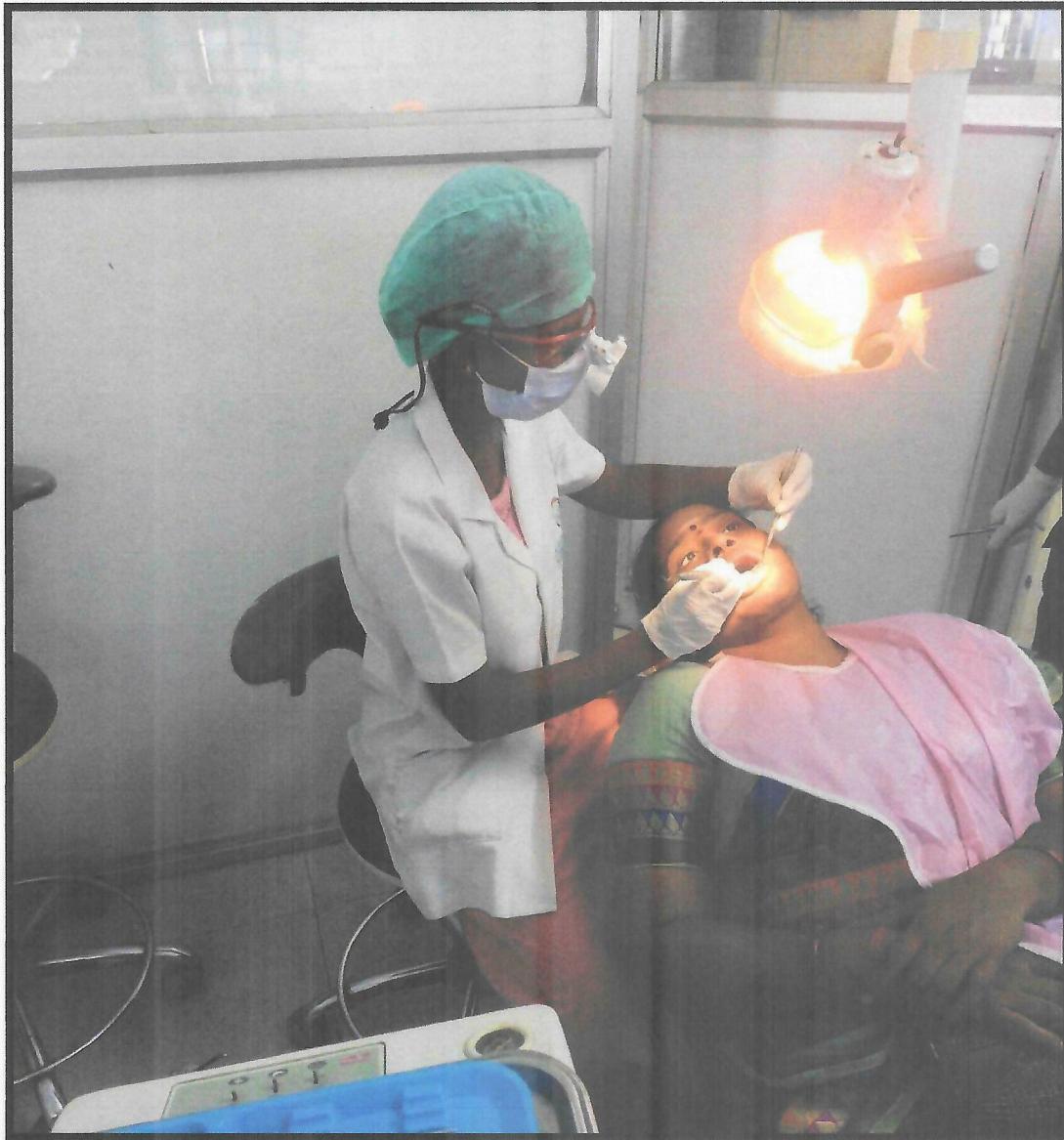
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MODERN DENTISTRY PRACTICE SCHOOL

MICRO SURGERY



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MODERN DENTISTRY PRACTICE SCHOOL

PIEZO SURGERY



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MODERN DENTISTRY PRACTICE SCHOOL

LASER



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BEST PRACTICE 2

Serving the Underserved: Oral Health Care for Special Populations

Objectives of the practice:

- To instill a sense of social responsibility in students to actively engage in community activities that address societal needs.
- To provide comprehensive training to develop specialized skills and sensitivity required to deliver high quality care and support to individuals with special needs, fostering an inclusive and compassionate approach to healthcare.
- To provide equitable access to oral healthcare services by removing barriers and improve the well-being of underserved populations like Irular community, trans genders, differently abled children / adults, inmates of de-addiction centers and old age home dwellers (incapacitated) in accessing dental care.

The Context:

1. Inclusive Approach: The program adopts an inclusive approach by specifically targeting the special needs populations who face barriers in accessing dental care.
2. On-Site Services: Recognizing the challenges of visiting dental hospitals, the program brings dental services directly to the institutions, ensuring convenience and accessibility for the targeted populations.
3. Specialized Training: Dental professionals receive specialized training to understand and address the unique needs and sensitivities of the target groups, providing appropriate and compassionate oral healthcare.
4. Collaborative Network: The program collaborates with relevant stakeholders to establish a supportive network, leveraging expertise and resources to deliver comprehensive dental care.


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5. **Holistic Approach:** In addition to treatment, the program emphasizes oral health education, preventive measures, and regular check-ups, aiming to empower the special populations with knowledge and tools for maintaining good oral health.

The Practice:

Before conducting the camp for the special population, a needs assessment is carried out, followed by stakeholder engagement, planning the outreach, pre-camp preparation, patient registration, on-site dental care, oral health education, follow-up care, monitoring and evaluation. On-site dental care in a comfortable environment is provided by trained professionals. Oral health education includes workshops and accessible materials. Follow-up care and referrals ensure ongoing treatment, and evaluation and feedback help improve future camps and services.

Evidence of success:

Between June 2018 to June 2023, the department of Public Health Dentistry in collaboration with the other specialties has conducted **85 camps** under the program “**Serving the Underserved: Oral Health Care for Special Populations**” in the old age homes, de-addiction centers, rehabilitation centers and other homes or centers being run by trusts or NGOs for the special and needy populations. **A total of 4116 patients** were screened for oral diseases and a tailored oral health education according to their level of cognition and comprehension was provided to all patients. The various dental procedures carried out were oral prophylaxis, restorations, preventive modalities and dental prosthesis. **92 dental professionals and 425 students** were specifically trained for the program and participated in these camps.

Challenges faced in the designing / implementation:

1. **Limited Resources:** The sustained resources and expertise required to provide specialized dental care to population with special needs is a challenge.
2. **Communication and Cooperation:** Addressing the unique needs and sensitivities of the special populations requiring clear communication, coordination, and collaboration


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among different stakeholders, including dental professionals, caregivers, institution staff, and the targeted populations, can be challenging.


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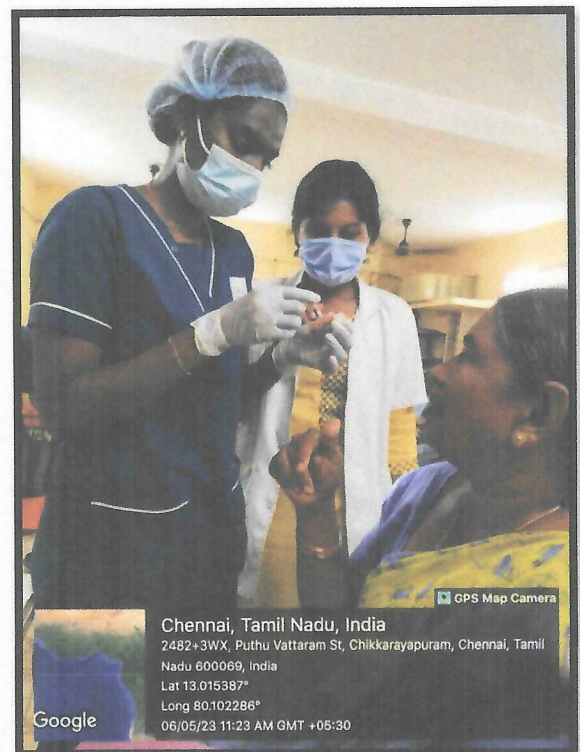
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SERVING THE UNSERVED

CAMPS CONDUCTED AMONG OLD AGE HOME DWELLERS




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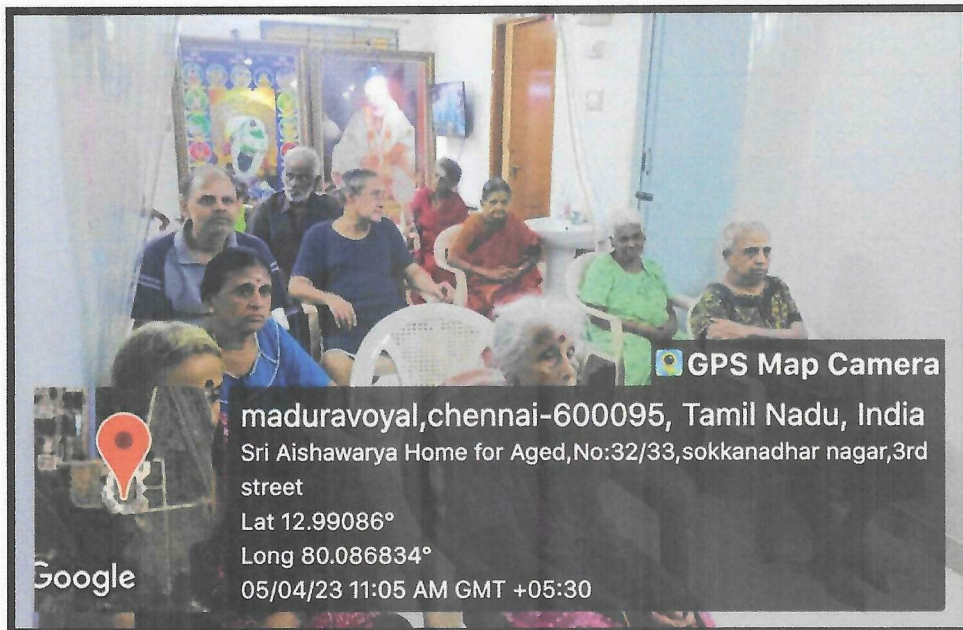
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CAMPS CONDUCTED AMONG SPECIALLY ABLED CHILDREN / ADULTS




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CAMP FOR THE TRIBAL (IRULAR) POPULATION



Chennai, Tamil Nadu, India

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Nagar, Mangadu, Chennai, Tamil Nadu 600056, India

Lat 13.033263°

Long 80.116224°

22/07/23 11:07 AM GMT +05:30


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CAMPS CONDUCTED AMONG INMATES OF DE- ADDICTION / REHABILITATION CENTERS




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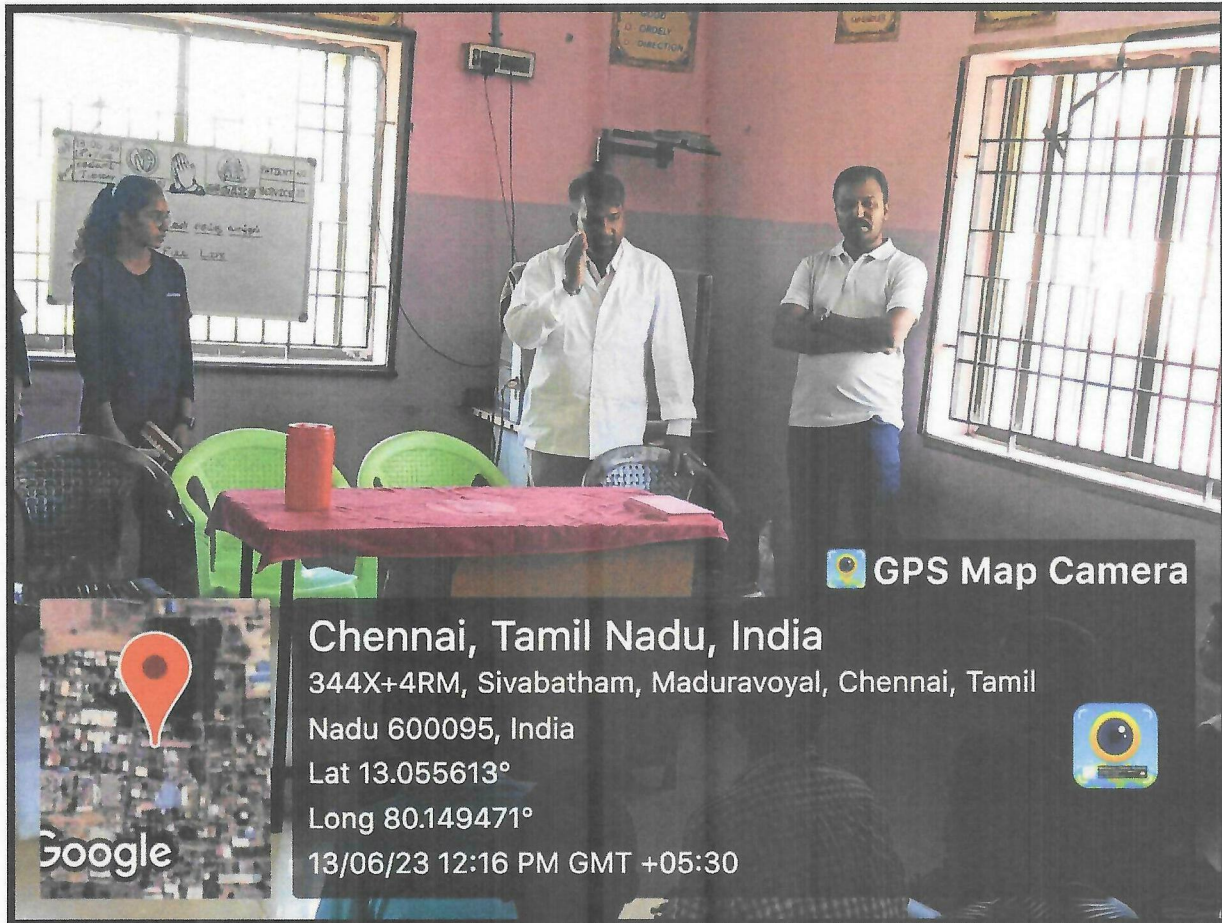
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