

SHAMSUL ALAM



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Professor (Dr.) Md. Shamsul Alam was born in 1956 at Tangail and had his BDS degree in 1979 from Dhaka Dental College and Post-Graduate Diploma in Operative Dentistry from Kuban State Medical Institute, Krasnodar, USSR in 1985. Professor Shamsul Alam started his career in 1980 at Dhaka Dental College with a long track record; Professor Alam worked as Dean, Faculty of Dentistry and fist hall provost of BSMMU as well as Course Director, Faculty of Dentistry and Currently working as Senior Professor, Department of Conservative Dentistry & Endodontics, BSMMU, and also as Honorary Chairman, Institute of Advance Dentistry, Bangladesh (IADB). Dr. Alam had attained several foreign training in Advance Endodontics and Laser Dentistry from Japan, USA and Switzerland. Professor Alam is the pioneer of Laser Dentistry in Bangladesh. He had number of presentation in the national & international level both in home and abroad especially in APEC, FDI and APDC. He has over 70 Publications in Indexed-Medicus and BMDC recognized journal as well. Professor Alam received Bangladesh Health Awarded 2010 and Sher-E- Bangla A K Fazlul Haque Memorial Podak 2011 for his remarkable activities in Dental and Medical sciences. He is also Fellow of the World Academy of Dentistry International USA, Royal Society of Health Promotion UK and International College of Dentist USA. In 2016 he awarded most prestigious degree in medical and dental science FCPS from Bangladesh College of Physician and Surgeon.

Past president (2015-16) Rtn. Professor (Dr.) Md. Shamsul Alam joined in Rotary Club of Dhaka Central in July 1995 and now serving as an active member of the club and received Paul Harries Fellow in 1999 from USA for various social activities. Rtn. Professor (Dr.) Md. Shamsul Alam MD (Major Donor) is engage with number of Association & Organization as its Life Member & Fellow. Dr. Alam is the founder Director of Green Life Medical College & Hospital and Panpacific Hospital, Training & research institute Dhaka, Bangladesh. He is also involved

in various social works. Dr. Alam is the Founder President of Hanufa Lasker Orphanage & Govt. Primary School, Andipara, Mirzapur, Tangail, Bangladesh.

Dr. Md. Shamsul Alam

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A NEW INNOVATION IN ENDODONTICS

Root canal shaping is a crucial procedure in endodontic treatment that influences the subsequent steps of root canal disinfection and obturation. The principles of root canal shaping are to form a continuously tapering funnel from the coronal access cavity to the root apex, preserving the original canal shape, and sustaining the integrity and location of the apical canal anatomy. However, procedural errors during instrumentation such as ledging, zipping, perforations, root canal transportation, and instrument separation can happen, especially when preparing curved canals.

In recent years, there have been considerable improvements in the design and the raw materials of nickel-titanium (NiTi) rotary instruments to improve their clinical performance. The super-elasticity of NiTi alloy provides enhanced flexibility and facilitates the NiTi rotary instruments to efficiently follow the original path of the root canal. Accordingly, NiTi rotary instruments have become an imperative adjunct for root canal shaping. On the other hand, it has been reported that the method of manufacturing and the design features could considerably affect the clinical performance of NiTi rotary instruments. Consequently, the development of new materials and methods of manufacturing NiTi rotary instruments are needed to obtain better performance while shaping the root canal.

Recently, ProTaper Gold (PTG) (Tulsa Dental Specialties, Tulsa, OK, USA) NiTi rotary system was introduced. PTG was developed with proprietary advanced metallurgy. It features a progressively tapered design that claimed to improve the cutting efficiency and safety. PTG rotary files are the same exact geometries as ProTaper Universal (PTU) (Dentsply Maillefer, Ballaigues, Switzerland), but it may appear slightly curved when removed from the package

due to their metallurgy. This is not a defect, but rather, an advantage as supposed by the manufacturer. PTG system has been metallurgically enhanced through heat treatment technology. PTG files exhibit a convex triangular cross-section and progressive taper. PTG files are available in eight sizes: SX (tip size 19 with a taper of 0.04), S1 (tip size 18 with a taper of 0.02), S2 (tip size 20 with a taper of 0.04), F1 (tip size 20 with a taper of 0.07), F2 (tip size 25 with a taper of 0.08), F3 (tip size 30 with a taper of 0.09), F4 (tip size 40 with a taper of 0.06), and F5 (tip size 50 with a taper of 0.05).

ProTaper Gold (PTG) are relatively new canal preparation files resulting from advancement in NiTi systems, It's convex triangular cross-section and progressive taper navigates challenging curves in the apical region of the canal. The file also has a feature of shorter 11ml handle for improved accessibility to the teeth.