
Debridement of root canal by 2 shape, One Curve and Endoultra.



Debridement of the root canal by rotary files and a proper irrigation is considered the most important single factor for ensuring long term success.

In clinical practice, shaping is usually the most time consuming and technically demanding element of the entire treatment. Thanks of the introduction of new heat treated alloys root canal instrumentation has been optimized and time required for shaping mechanically has been drastically reduced. 2Shape and One curve represent nowadays the gold standard in Endodontics for simplifying clinical procedure reducing number of files needed. Two or One, no more, this must be the clinician choice for managing all anatomies in a safe way!

2Shape are a sequence of two heat treated files with same tip diameter and different taper, in order to print gradually, following the step down technique, the right shape, from coronal part to the apex.

One Curve, the last release, is a single file technique. Two different cross section, a special flute design and a never seen before heat treatment make

this file unique and with no competitors in its class. Safety, original anatomy preservation, pre-bendability and usability are the key words for identifying One Curve.

But still one point is missing for completing debridement: the cleaning protocol. Endoultra has been recently introduced and it is the first ultrasonic device with a cordless design able to generate cavitation and acoustic streaming inside root canal system. It means that Endoultra is able to remove efficiently smear layer, Biofilm and bacteria from the endodontic space.

In Endodontics, the cleaning of root canal system, is regarded by many clinicians as being the most important part of it, in order to expect a predictable successful outcome. The true goal of cleaning in endodontics is to remove all the content of root canal and Endoultra is able to solve this matter.

Another aspect is that, in the modern Endodontics a properly irrigation protocol takes the main part of root canal treatment because irrigants need time to maximize their effectiveness during disinfection process.

So there is a great difference between time dedicated to shape roots canals, very short and time dedicated to clean them a effective way, very long.

Sometimes it's possible to shape a canal in few minutes but it's mandatory to take 30 minutes at least in order to obtain an effective cleaning before to pack all the doors separating endodontium from periodontal region.

Many protocols have been suggested in the modern endodontic literature but which protocol is the best to achieve complete disinfection?

So, does exist a right sequence of using different irrigants, considering their concentration, activation and chemical composition to obtain maximum effect in the shortest time?

But, first of all, can we really assert that a clinical disinfection protocol exists?