

The Smartest Way forward



980nm / 15watt
Diode laser for
Proctology



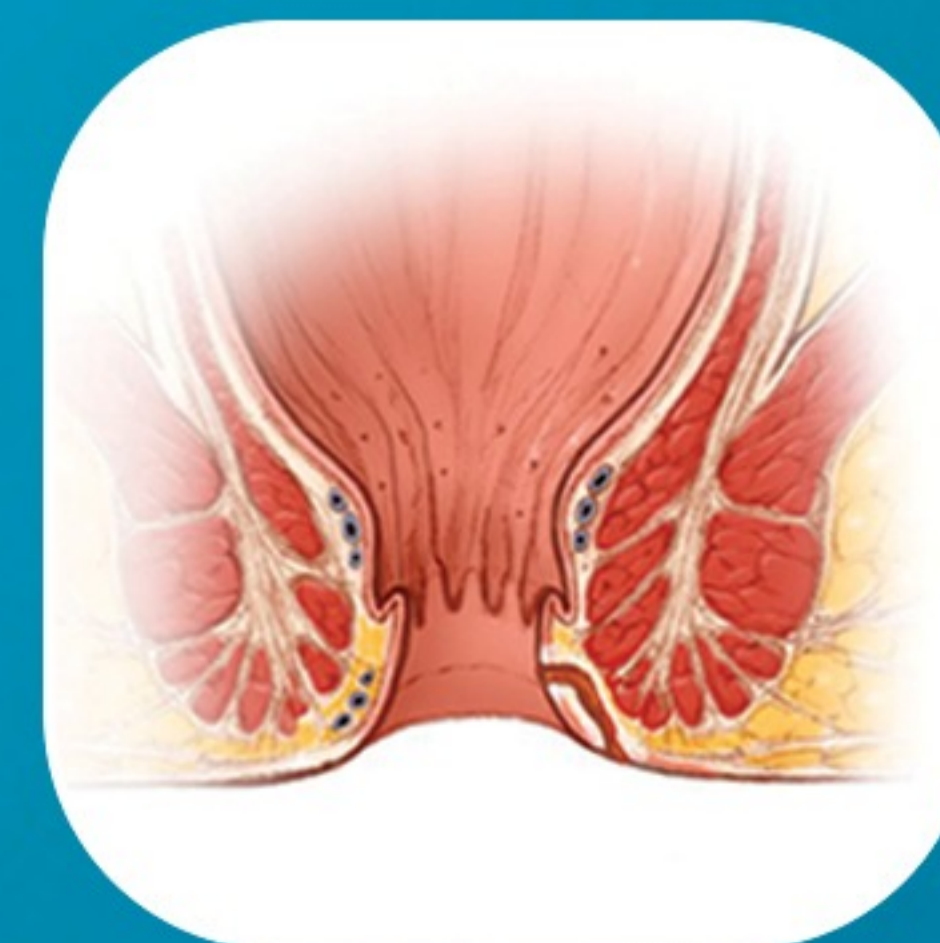
Hemorrhoids



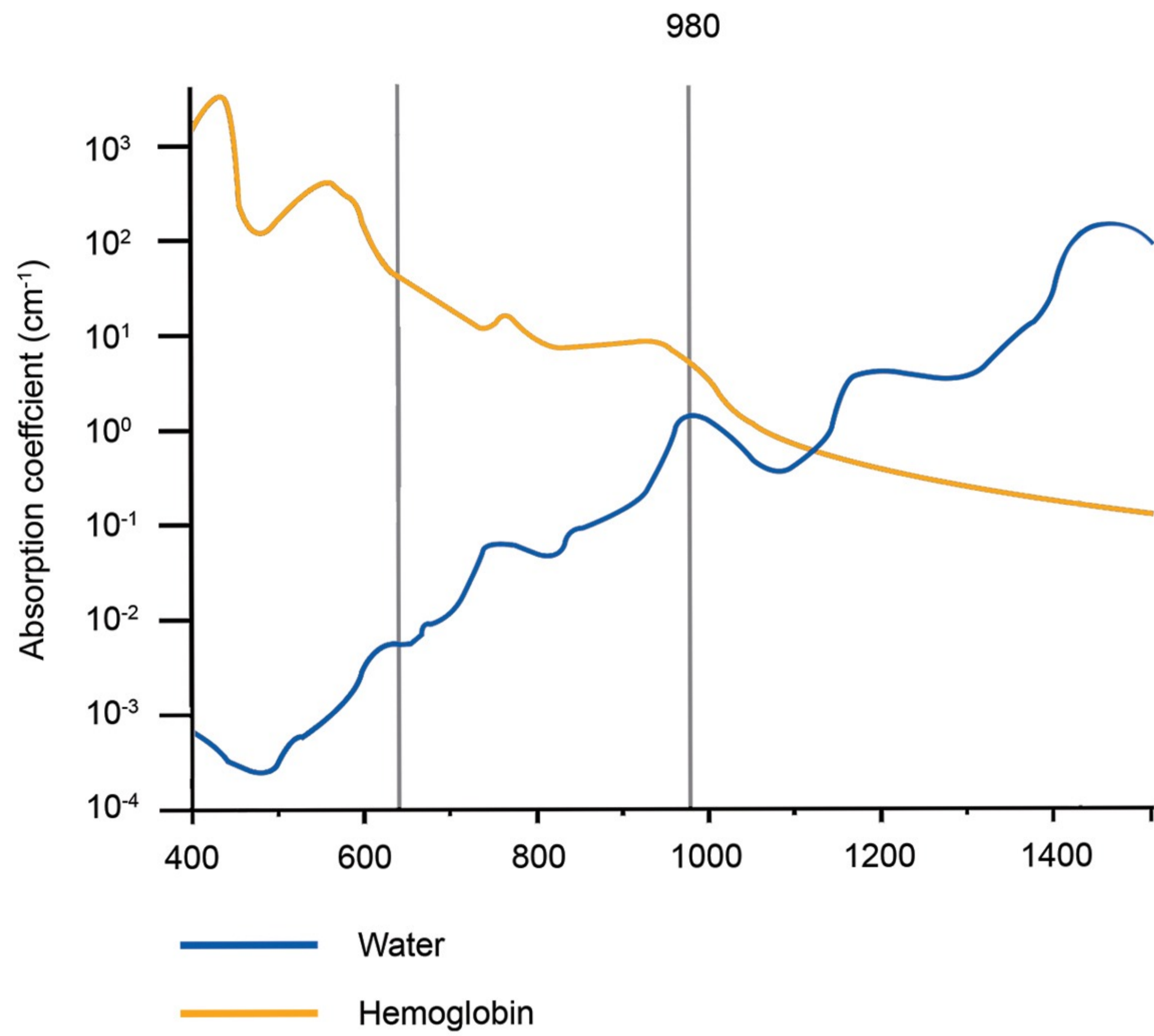
Fistula



Fissure



Pilonidal Sinus



We Offer Diode Lasers with 15w/980nm wavelength for Proctology,



Dial Switch



Touch Screen Interface

Accessories



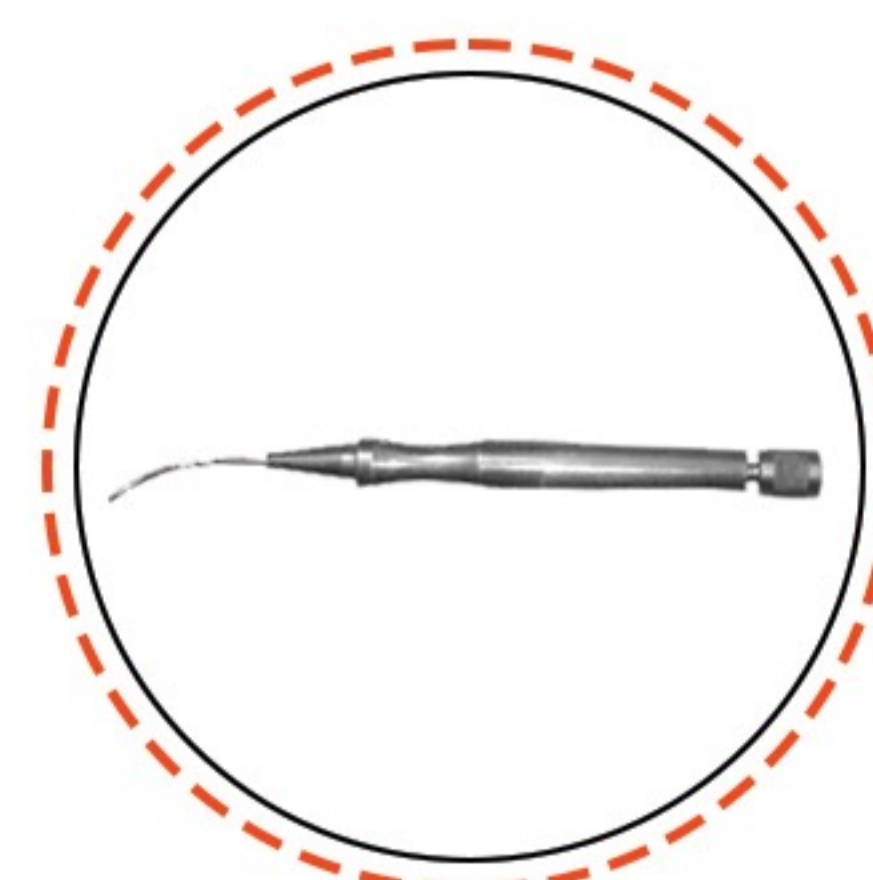
Safety Goggle



Foot Switch



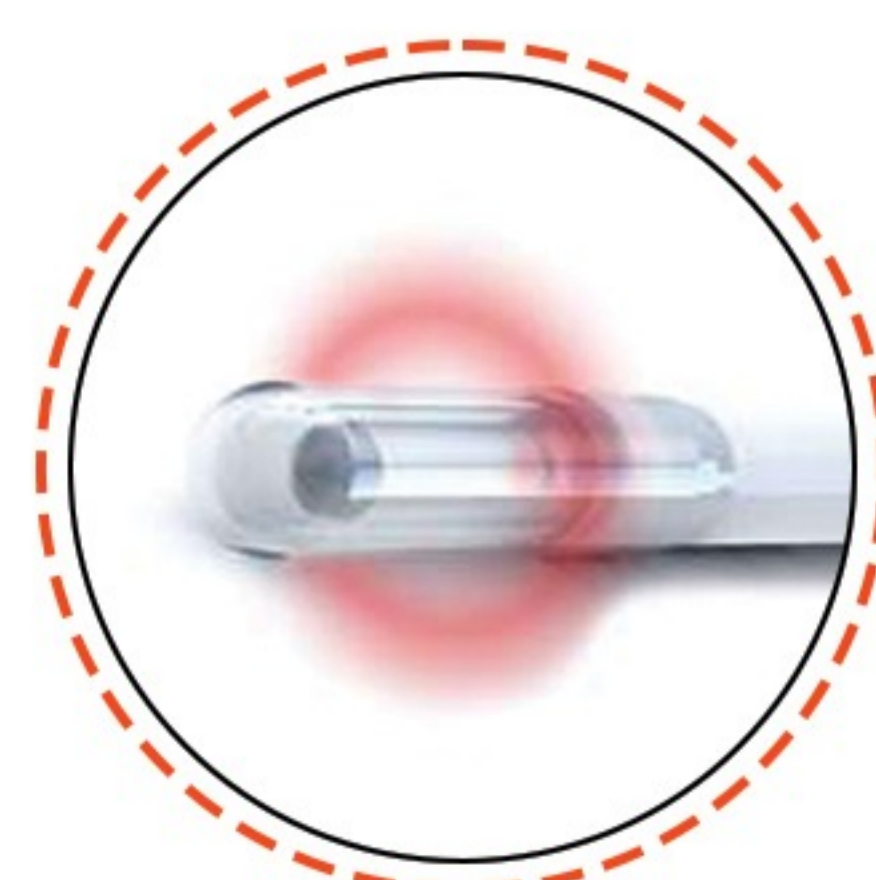
Carrying Case



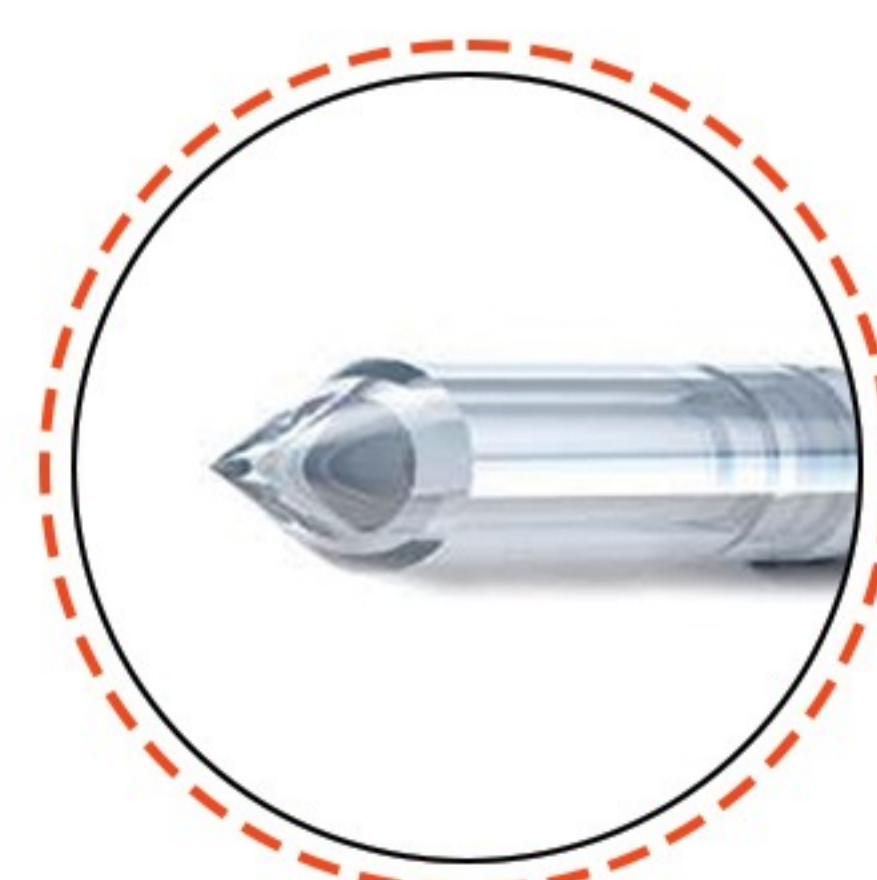
Proctology Handpiece



Bare Fiber



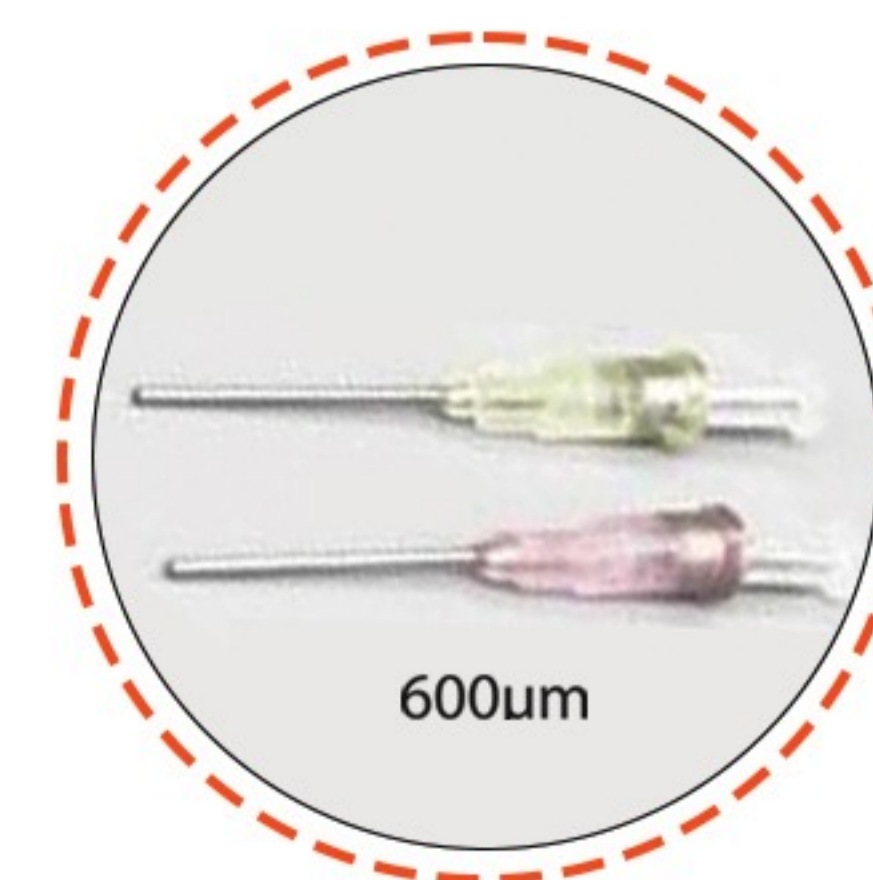
Radial Fiber



Conical Fiber
(Optional)



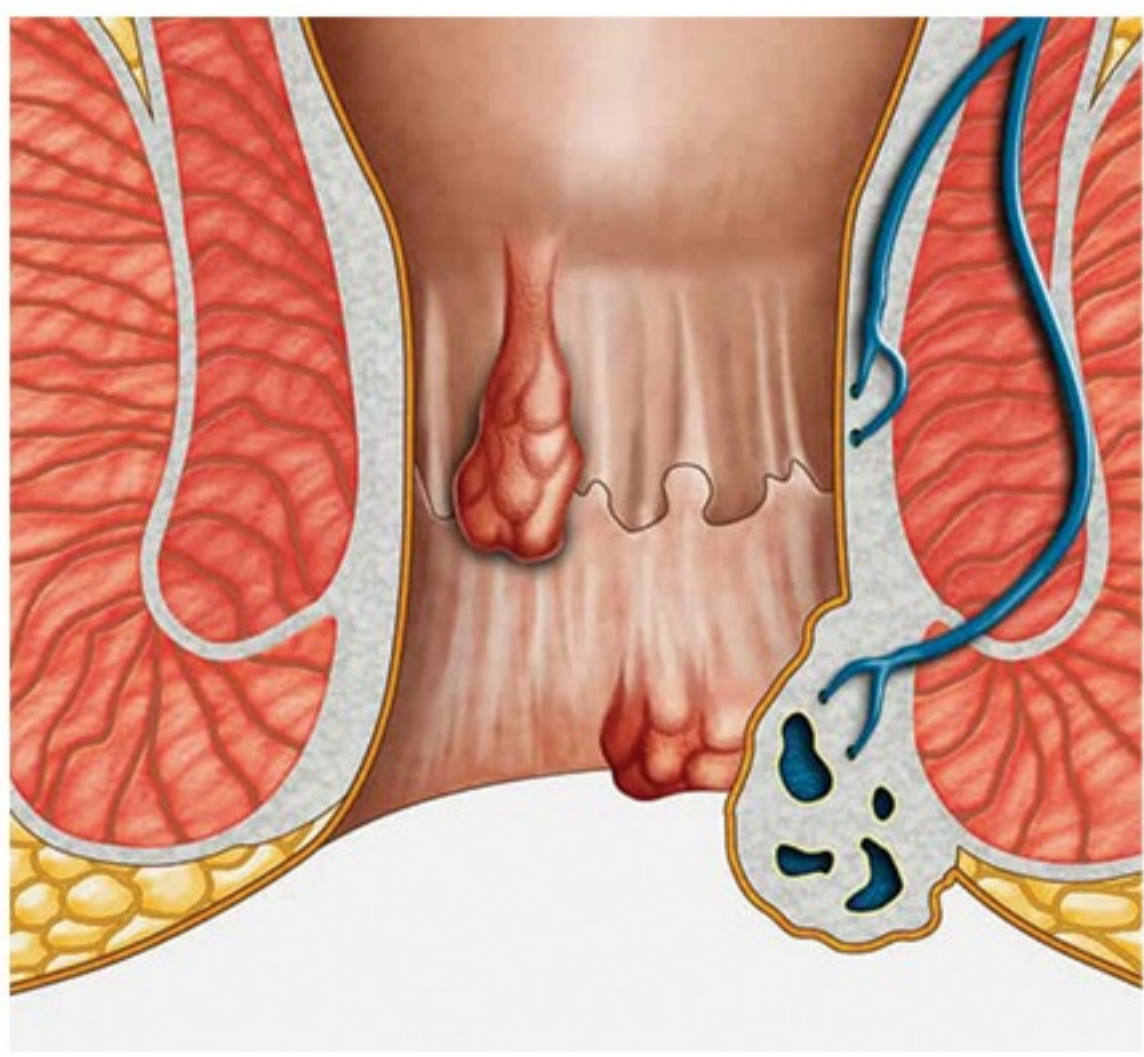
Permanent Fiber
(Optional)



Disposable Tips
(Optional)

Laser Treatment For Proctology

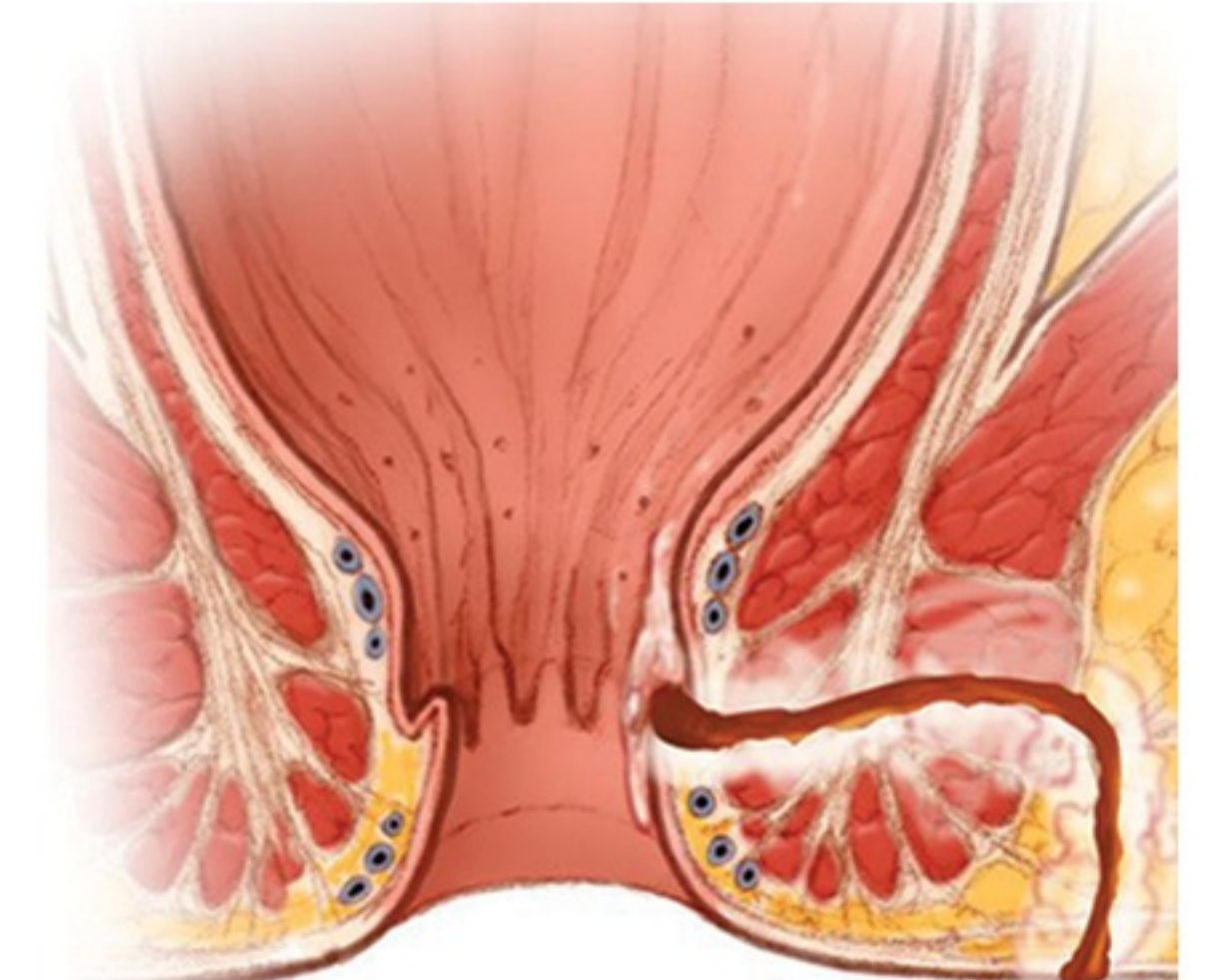
Hemorrhoids



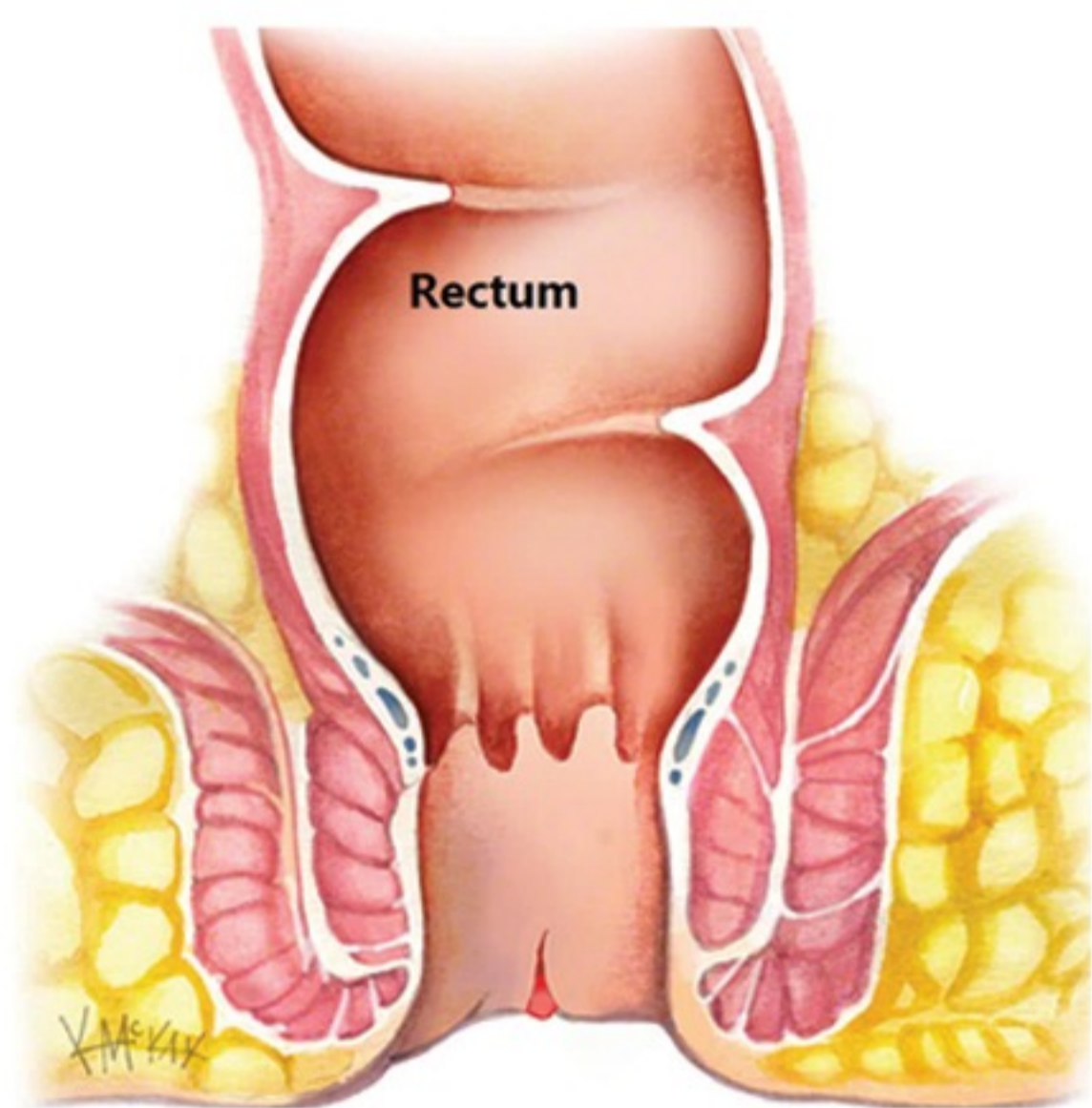
Under LA/GA, laser energy is delivered by radial fiber directly to hemorrhoidal nodes and they will obliterate from inside and this will help to preserve mucosa and sphincter structure to an extremely high precision. Laser energy is used to close off the blood supply nourishing the abnormal growth. The laser energy induces destruction of the venous epithelium and simultaneous obliteration of the hemorrhoidal pile by a shrinkage effect. Advantage of using laser compared to conventional surgery, fibrotic reconstruction generates new connective tissue, which ensures that the mucosa adheres to the underlying tissue. This also prevents the occurrence or recurrence of a prolapsed. Surgical procedure can be executed in only a few minutes.

Fistula

Laser energy is delivered by optical fiber into the anal fistula tract and is used to thermally ablate and close of the abnormal pathway. The laser energy induces destruction of the fistula epithelium and simultaneous obliteration of the remaining fistula tract by shrinkage effect. The epithelialized tissue is being destroyed in a controlled way and the fistula tract collapses to a very high degree. This also supports and accelerates the healing process. Advantage of using diode laser using radial fiber compared to conventional surgery is, it gives good control to operator, also allows use in convoluted tract. Surgical procedure can be executed in few minutes.



Fissure



The procedure is done under LA-local anaesthesia, it does not require hospitalization of a patient. By the use of laser the pathological tissue of anal fissure is vaporized. The laser removal of a fissure has great efficiency rates. It is the most modern technique used to treat a fissure. The laser surgery is the perfect alternate for other methods.

Pilonidal Sinus

Contrary to conventional methods, laser treats pilonidal sinuses in depth. It is literally non-invasive, completely painless and very therapeutic effect to laser that contributes noticeably to the spectacular healing of pilonidal cyst disease. Laser removes inflammable structures and sinuses. The removal of pilonidal sinus with this laser surgical techniques takes approximately 30 minutes in most cases. When we laser sinuses, collateral damage is minimal. The healing process is thus quicker, easier and mostly without any pain. In the treatment of complete healing and restoration of pilonidal cyst there is no serious risk of recurrence. Recurrences are rare. Laser surgery is clearly better compared to other surgical procedures.



Benifits of using diode laser

- Minimal Invasive
- Day care Procedure
- Less bleeding, Less trauma
- Faster Healing
- Scarless Treatment

Specification

Laser type	Diode, Semiconductor
Wavelength	980nm
Max Power	15 watts
Aiming beam	635nm, < 5mw
Operation Mode	Continuous or pulsed
Pulsed Time	0.05ms~1000ms
Beam Delivery	SMA905 connector
Optic Fiber Compatible	Optic fibers having a core from 200um to 1000um, NA=0.22~0.48
Beam Emission Initiation	Footswitch
Controller	Microprocessor
Display	5.5" LCD with touch panel Medical approved
Cooling	Silent cooling fan, Multi- channel copper tube electronic cooling
Power supply of the laser	DC 24V/8.33A from the separate AC
Power supply of AC adapter	Single phase 100~240VA; 50-60HZ, Max 90w
AC Adapter	DC 24V/8.33A Medical approved
Laser Dimensions	20cm* 20cm*10cm length*width*height
Laser weight	1.7 kg
Laser case dimensions	19cm × 13.4cm × 9cm
Weight of laser with cases	9kg
Environmental conditions during work	From +10 to 24°C degree, relative humidity from 30% up to 60%
Cass of Medical Device	IIB
Laser safety Class	4
Electric Safety Class	I type B
Housing Protection Degree	Ip20b
Footswitch Protection Degree	IPX6
Battery Capacity	3350 mAh

Meets the following standard

Hardware: IEC 60601-1:2005+A1:2012

IEC 60601-1-2:2014

IEC 60601-2-22:2012

IEC 60825-1:2014

Software: IEC 62304:2015

Biological evaluation: ISO 10993-1:2018

Battery test: IEC 62133-2:2017

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