

## Video Colour CCD ENT Scope



### References

#### Papers

- Trans-nasal flexible laryngo-oesophagoscopy (TNFLO): An evaluation of the patient's experience. Sharma A, Price T, Montgomery PQ, Mierzwa K, Quayyum A, Bradnam T. Journal of Otolaryngology. January 2006 ;120(1):24-31.
- How we do it: The role of trans-nasal flexible laryngo-oesophagoscopy (TNFLO) in ENT: one year's experience in a head and neck orientated practice in the UK. Price T, Sharma A, Snelling J, Bennett AM, Quayyum A, Bradnam T, Montgomery P. Clin Otolaryngol. 2005 Dec;30(6):551-6.
- Direct Phonoplasty under Local Anaesthesia Montgomery PQ, Sharma A, Quayyum A, Mierzwa K, J Laryngol Otol. 2005, Feb;119:134

#### Abstracts & Non-Peer Reviewed Publications

- Trans-nasal Flexible Laryngo-oesophagoscopy (TNFLO). The future of Head and Neck Investigation: 1year's experience. Price T, Sharma A, Montgomery P, Bradnam T, Qayum A, Bennett A. IFOS, EDITORS, PUBLISHERS, PAGES, 2005.
- Pain score and Complication Rate Of Trans-nasal Flexible Laryngo-oesophagoscopy (TNFLO)" Sharma A, Montgomery P, K Mierzwa, Qayum A, Price T, Bradnam T. IFOS, EDITORS, PUBLISHERS, PAGES, 2005.
- The Management Of Foreign Bodies In The Pharynx and Oesophagus Using Trans-nasal Flexible Laryngo-oesophagoscopy (TNFLO) Bennett AMD, Sharma A, Price T, Montgomery P. IFOS, EDITORS, PUBLISHERS, PAGES, 2005.



## Digital High Resolution Endoscopy Video Colour CCD ENT Scopes



## Trans Nasal Flexible Laryngo Oesophagoscopy

The new EE-1580K Multipurpose Video ENT scope - performance and precision as you would expect from PENTAX.

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## Extraordinary clarity of image and ability to perform biopsies under local anesthetic.

New diagnostic and therapeutic technique using the PENTAX EE-1580K Digital High Resolution Video Oesophagoscope for the immediate examination and treatment of the upper aero digestive tract, including the larynx and pharynx under LA. It is safe and well tolerated by patients, causing little discomfort and compares favourably with other endoscopic techniques and significantly improves diagnostic and biopsy precision in Post Nasal space, Larynx, Pharynx, Upper Trachea and Oesophagus.

### Trans Nasal Flexible Laryngo Oesophagoscopy (TNFLO)

#### Diagnostic indications and therapeutic procedures including

- Hoarse voice, persistent sore throat, dysphagia, globus, examination of nasal cavity/post nasal space and head and neck cancer surveillance.
- Insertion of speaking valves, vocal cord medialisation procedures, removal of food bolus obstruction and endo-laryngeal laser surgery.

#### Clinician Benefits

- Comprehensive ENT examination from nasal cavity to Gastro/Oesophageal junction.
- Fast and accurate diagnosis and therapy
- Digital High Resolution imaging increasing diagnostic yield and biopsy precision in Out Patient setting.
- Avoids GA endoscopy in patients with high comorbidity.

#### Patient benefits

- Reduction in patient risk from GA – performed under local anaesthetic.
- Reduction in time to diagnosis and treatment.
- Better for patients – Comprehensive ENT Out Patients examination in less time with reduction in patient anxiety.

#### Trust benefit

- A critical element in achieving the 31/62 cancer targets by permitting immediate biopsy of the larynx and pharynx, under local anaesthesia, in an Out Patient setting.
- Reduction in waiting times.
- Reduction in costs – 80–90% reduction in need for Barium Swallows and GA endoscopies.
- Reduction in follow up appointments.

### Outstanding performance characteristics PENTAX EE-1580K

#### Superb Digital Imaging & Image Processing

- PENTAX FVT (Full Vision Technology) delivers large format images with superior colour reproduction for effective mucosa evaluations.
- Fully digital system: combination of PENTAX DSP Technology (Digital Signal Processing), high resolution Colour CCD Chips and the latest digital video processors.

#### PENTAX Quality & Service Programme

- The PENTAX brand continues to be recognised for delivering cost effective products of exceptional quality and durability.
- Industry leading service plans, consultancy, financing, technical service and training.

#### Diagnostic/therapeutic Video ENT Scope

Type	EE-1580K
Angle of view (°)	140
Insertion tube diameter (mm)	5.1
Instrument channel diameter (mm)	2
Tip deflection (°) up/down	210/120
Working length (mm)	600



Biopsy of a Base of the Tongue Cancer



Biopsy of a laryngeal cancer under LA



Injection of vocal cord with collagen under LA



Bilateral internal laryngocoeles



Removal of Fish bone from the Piriform Fossa



Posterior post-cricoid web



Normal Post-cricoid region on swallowing



Oesophageal candida



Pharyngeal pouch.



Piriform Fossa Carcinoma



Plumb stone in Oesophagus



Posterior Pharyngeal Wall Cancer



Speech Prosthesis in-situ in oesophagus



Speech Prosthesis with fungal colonisation



Suglottic invasion by thyroid carcinoma.



Supraglottic cicatrising pemphigoid of larynx



Transglottic carcinoma



Biopsy of vocal cord under LA