

# Endoscopy Division

## Introduction

The Endoscopy Division covers three fields of interest: the gastrointestinal (GI) tract, the respiratory system, and the head and neck. A total of 14,260 examinations were performed in 2006, of which 12,891 comprised GI endoscopy, 562 bronchoscopy, and 807 head and neck endoscopy. A marked rise is being noted in the number of endoscopic treatments such as endoscopic mucosal resection (EMR), endoscopic submucosal dissection (ESD), percutaneous endoscopic gastrostomy (PEG) and photodynamic therapy (PDT). A digital filing system for endoscopic images has been in place since 1997. Digital images have the advantages of high quality resolution and the potential for long-term preservation using the Olympus EVIS 260 system. In addition, the new High-Vision digital imaging endoscopy system (resolution of over 100 million pixels) of the Olympus Lucera system has been in use for routine examinations since 2003.

including endoscopic ultrasound (EUS), a narrow band imaging system (NBI) is now used for head and neck, esophageal, and colorectal cancers; and this system has become extremely useful for detecting very early cancers in these areas. Due to recent progress in instruments and techniques, the number of endoscopic treatments has been increasing year by year. EMR is now routinely indicated for early GI tract cancers and the ESD technique is basically used for gastric cancer to achieve en-block resection, even in extensive lesions. EMR and PDT are sometimes indicated as salvage treatments for residual or locally recurrent tumors following chemoradiotherapy for esophageal cancer. PEG and endoscopic balloon dilatation are valuable supporting techniques in the treatment of the head and neck and esophagus. In the field of colonoscopy, magnifying endoscopy is routinely used and endoscopic day surgery, such as polypectomy and EMR, is now performed in one-tenth of all examinations.

## Routine Activities

In addition to routine diagnostic examinations

● A. Ohtsu ●

Number of patients examined in 2004-2006

	2004	2005	2006
Upper gastrointestinal endoscopy	6,029	6,509	6,834
Endoscopic ultrasonography	250	260	231
Endoscopic mucosal resection (esophagus)	152	162	161
Endoscopic mucosal resection (stomach)	138	148	195
Endoscopic balloon dilation	949	1,009	1,233
Percutaneous endoscopic gastrostomy	98	95	128
Photodynamic therapy (esophagus)	30	32	94
Colonoscopy	2,122	2,222	1,969
Polypectomy/EMR	624	824	533
ERCP	30	30	13
Bronchoscopy	589	595	560
Photodynamic therapy (lung, bronchus)	6	6	2
Laryngoscopy	427	427	490
Narrow band imaging (head and neck)	280	295	284
Endoscopic mucosal resection (head and neck)	12	12	33

ERCP: Endoscopic retrograde cholangio-pancreatography