

MiroCam® Overview



IntroMedic Overview

IntroMedic is a global company specializing in development and manufacturing of high performance wireless capsule endoscopes, based on innovative & patented data communication technology.

IntroMedic Overview:

- HQ in Seoul, Korea
- Main product: MiroCam capsule endoscope
- Established 2004
- Employees: 50

IntroMedic Key Milestones

Year	Milestone
1999	<ul style="list-style-type: none">• Intelligent Microsystem Center (IMC) established by the Korea Ministry of Science & Technology
2000	<ul style="list-style-type: none">• Contract with IMC for development of capsule endoscope technology
2001	<ul style="list-style-type: none">• Korean patent application filed for telemetry using human body as a medium
2002	<ul style="list-style-type: none">• US patent application filed for telemetry using human body as a medium• Prototype capsule completed and press release announced• Korean and PCT patent applications filed for “Methodology and apparatus for receiving data in a human body communication system” and “Methodology and system for data communication in the human body and sensors”
2004	<ul style="list-style-type: none">• Metis Medical Systems Co., Ltd. established (Sept. 3, 2004)• Nominated as one of the Top 10 Major R&D Achievements by the Ministry of Science & Technology

IntroMedic Key Milestones

Year	Milestone
2005	<ul style="list-style-type: none">• Capsule endoscope exhibited at DDW Chicago• Two Korean patents issued
2006	<ul style="list-style-type: none">• Company renamed “IntroMedic Co. Ltd”• KFDA clinical trials completed and ISO 13485 obtained
2007	<ul style="list-style-type: none">• Received Korean GMP approval• Received Korean FDA Approval for MiroCam system• Received CE MDD approval in August• KFDA Approval / CE Mark / TGA (Australia)
2008	<ul style="list-style-type: none">• Applied for 510K for FDA (USA)• Received SFDA (China) – April• Applied ANVISA (Brazil)• Received for CMDCAS (Canada)

IntroMedic Key Milestones

Year	Milestone
2009	<ul style="list-style-type: none">• Received ANVISA (Brazil)• Exporting to over 45 Countries now

MiroCam System Overview

Capsule Endoscopy System

- MiroCam system includes the following components:
 - MiroCam capsule
 - MiroCam receiver (plus accessories)
 - MiroView Workstation
 - o MiroView / MiroView Express

Endoscope Capsule



Receiver



Work Station



Competitive Advantages

Image Resolution & Quality

- Highest image resolution of 102,400 (320x320)
 - Competitor resolution 256x256

Image Capture Rate

- Highest rate @ 3 frames per second
 - Competitors @ 2 frames per second

Esophagus



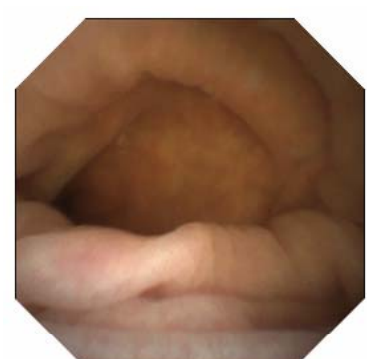
Stomach



Small Bowel



Colon



Competitive Advantages

Capsule Operation Time

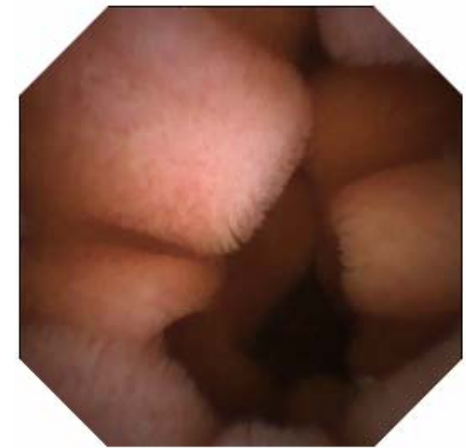
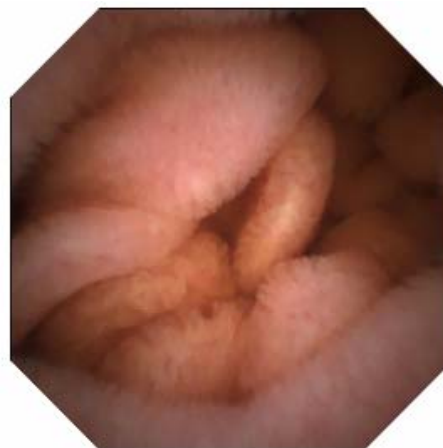
- MiroCam has longest operation time of > 11 hours
 - Competitor's ~ 8 hours
- 11 hours ensures images of entire small bowel
 - MiroCam also able to capture colon images
- Why is this important?
 - 20 to 25% of cases do not reach ileo-cecal valve in 8 hours



Competitive Advantages

Capsule Size

- MiroCam is the smallest capsule endoscope @ 11x24mm
 - Competitor's ~ 11x26mm
- Smaller size is easier for patient's to swallow
- Capsule includes 10% free space for future development



Competitive Advantages

Capsule Field of View

- Field of View of 150°
 - Competitor's Field of View $\sim 140^\circ / 156^\circ$
- High precision lens system
 - Enables more thorough diagnosis



MiroView Overview

MiroView Real Time Viewer

- Typically used for patient management
- Attach to receiver via USB, click start



MiroView 2.0 Overview

Three Programs

MiroView Server

- Database Management
- Server starts automatically

MiroView Operator

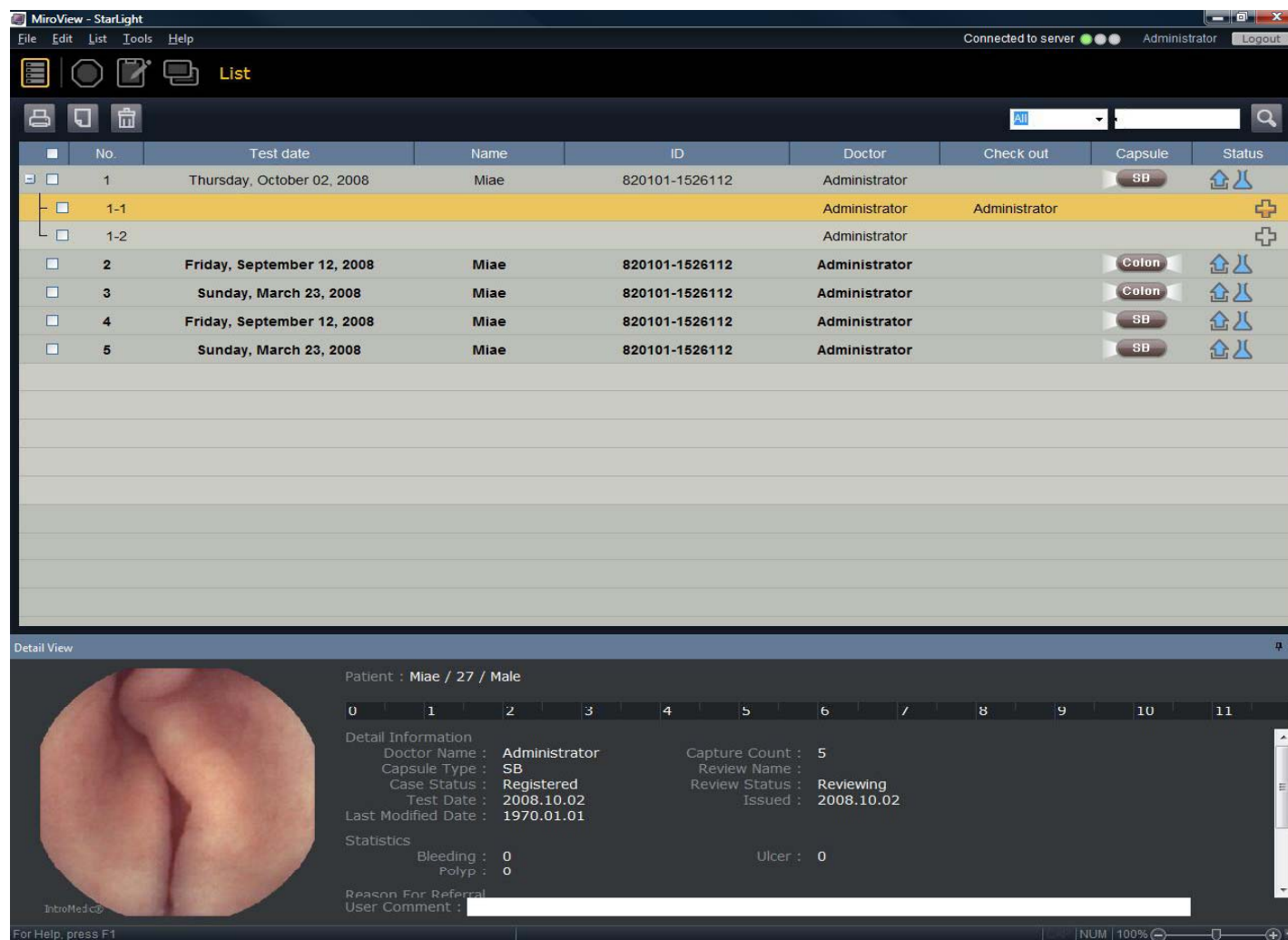
- Input Patient Info
- Receiver Initialization
- Upload Data from Receiver
- Data Backup
- Account Management

MiroView Client

- List Mode
- Review Mode
- Report Mode
- Export Mode
- Image Atlas
- Express View
- SGIB Mode
- Positioning Window
- PACS connect ability

MiroView 2.0 Main Features

- User Administration Function

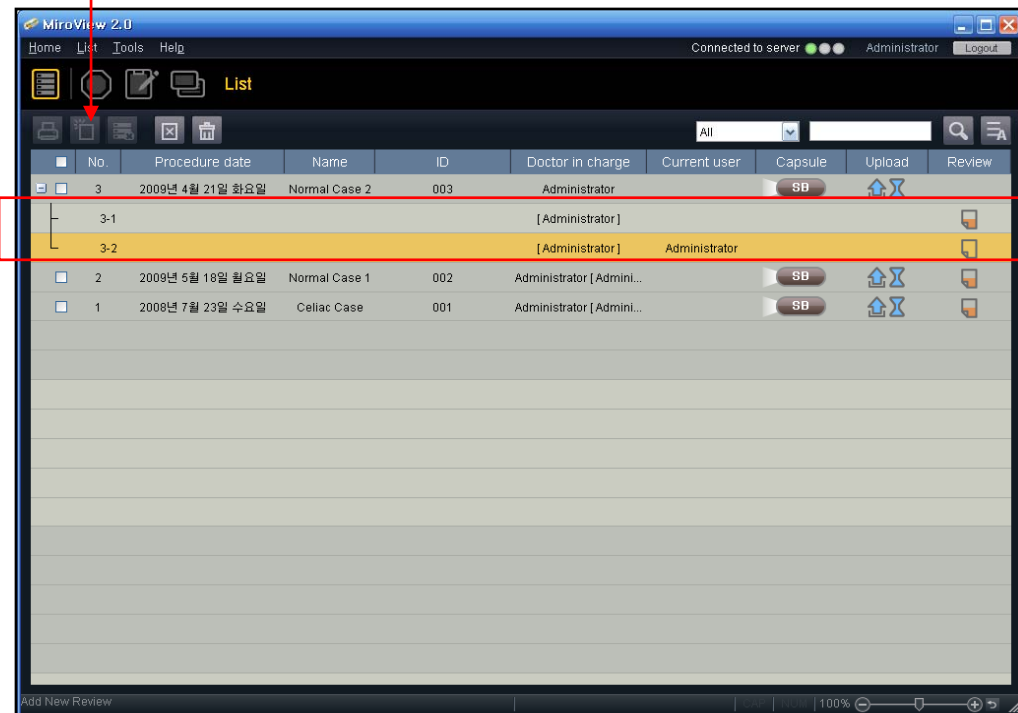


MiroView 2.0

Multiple Review

Physicians from different locations of the hospital can review the same patient files at the same time and save each study separately. This can be done by clicking "Add New Review"

Add New Review



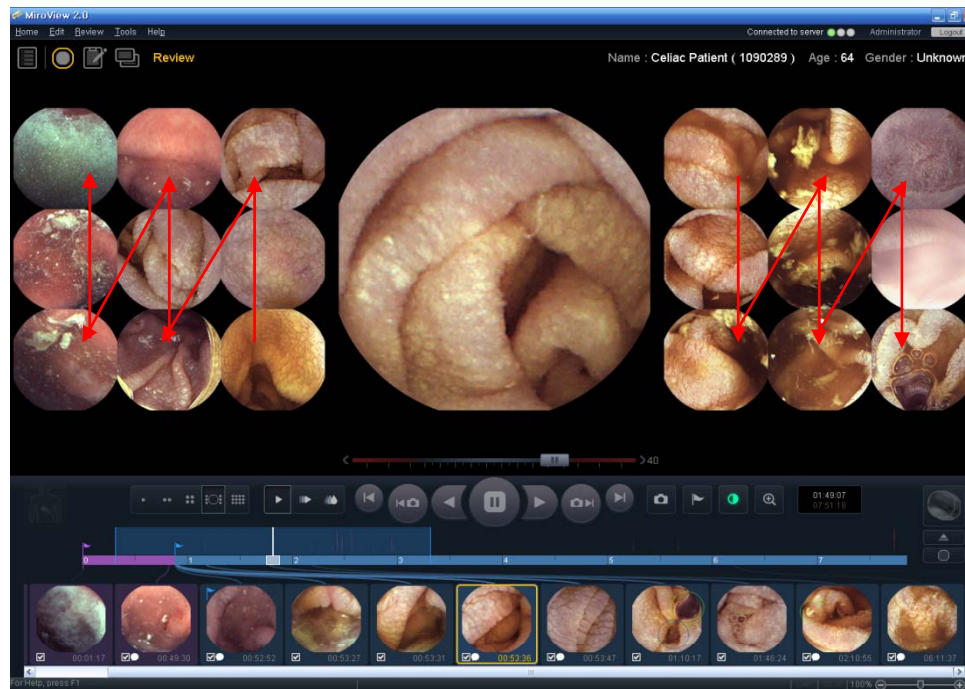
MiroView 2.0

Review Mode



MiroView 2.0

Review Mode – Range View

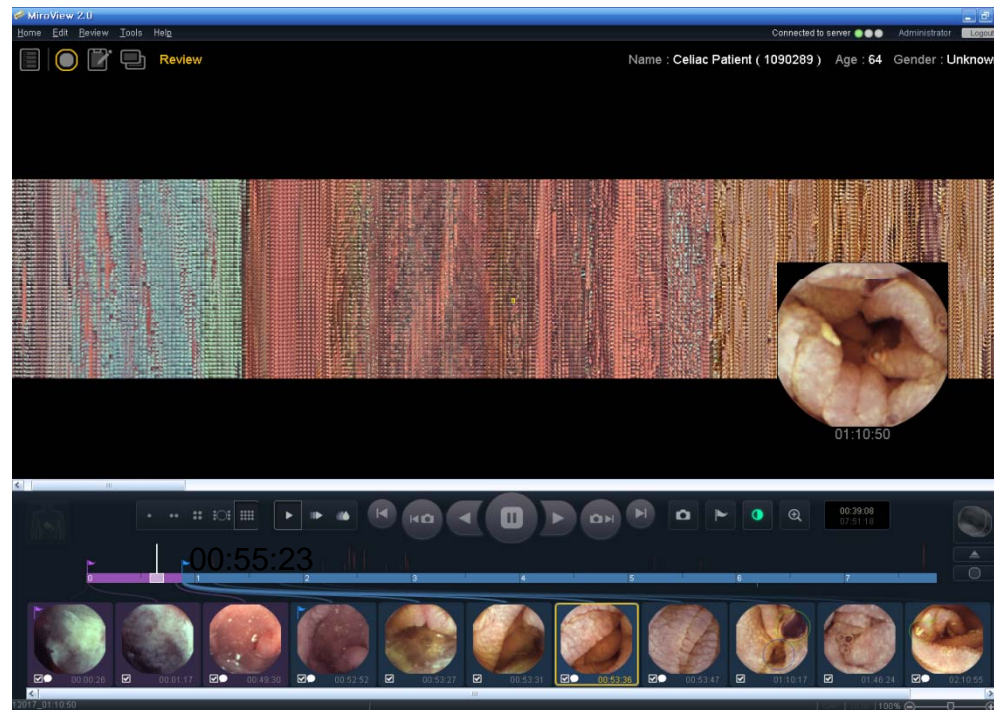


-Displays a range of images to readily identify landmarks in the GI tract

-Side bar images will move 1 image per/sec while the center images will display images per user selection. ie,15 images per sec

MiroView 2.0

Review Mode – Map View



-Displays a range of thumbnail images to readily identify landmarks in the GI tract

-Similar to Given's color bar but different technology and patent

MiroView 2.0

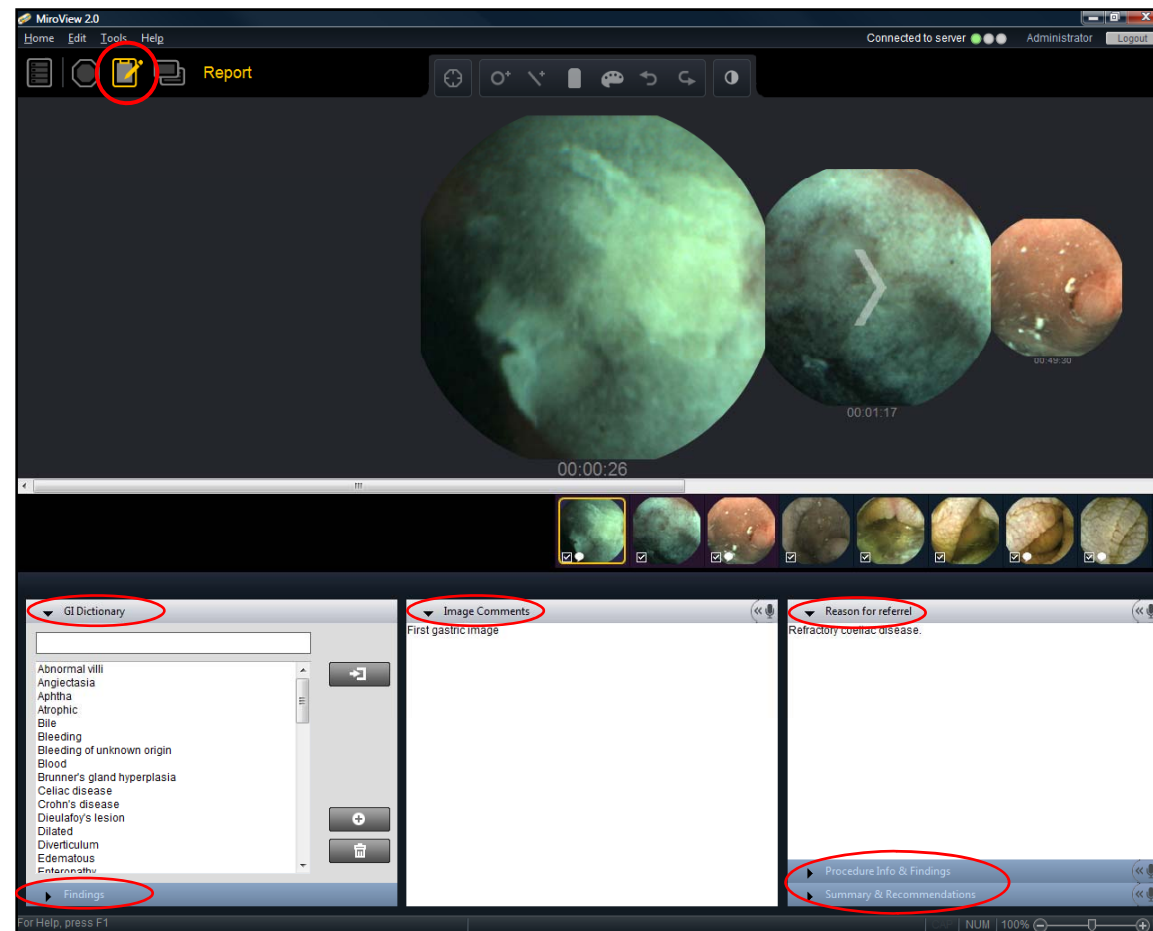
Express View



Upgraded version of the "Quick Mode" - Reduces image count; enabling the physician to more efficiently review and generate patient reports.

MiroView 2.0

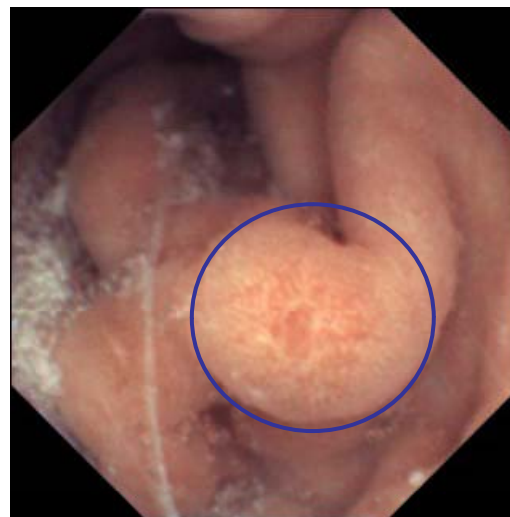
Report Mode



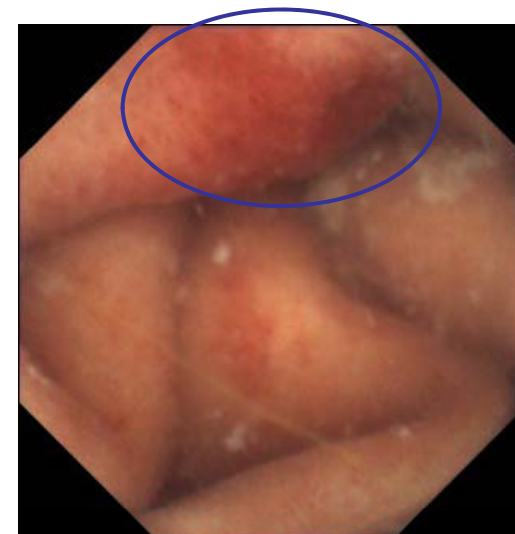
Disease Images



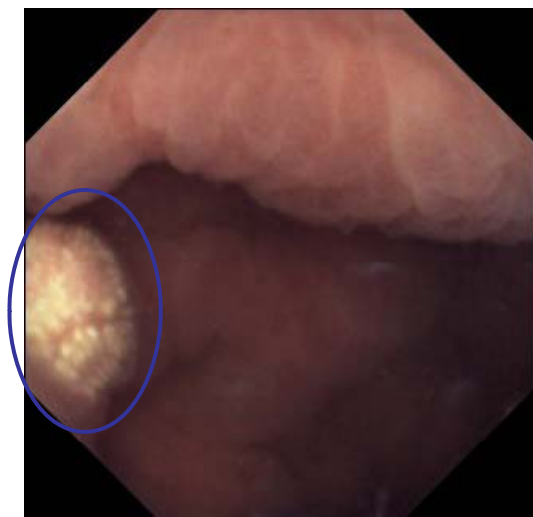
IntroMedic® 09 Nov 2007 00:00:09
Esophageal Varix



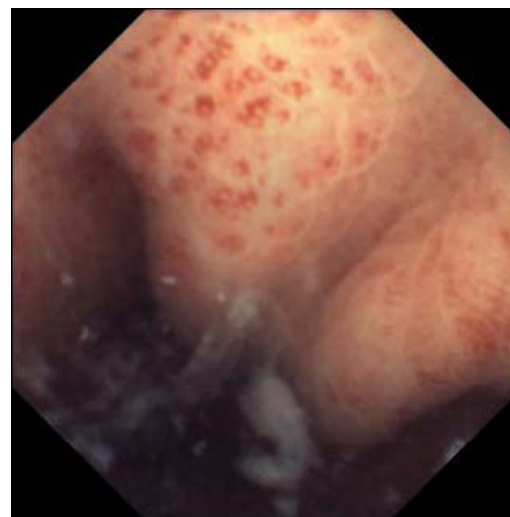
IntroMedic® 16 Dec 2007 01:03:26
Gastric erosion



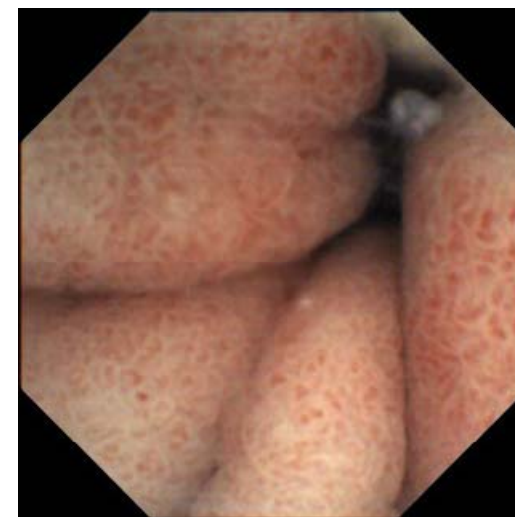
IntroMedic® 13 Nov 2007 01:45:19



IntroMedic® 13 Nov 2007 00:20:06

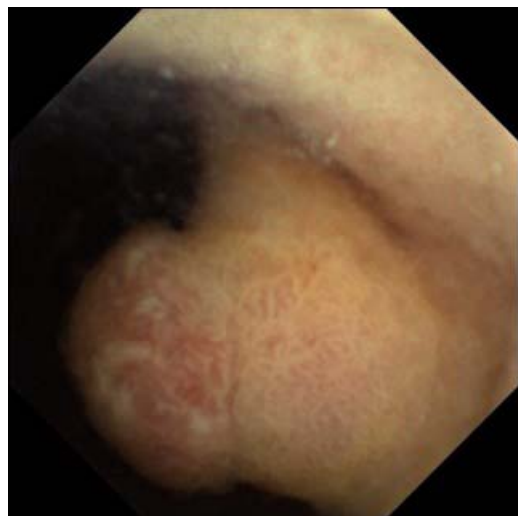


IntroMedic® 13 Nov 2007 01:02:34



IntroMedic® 29 Jun 2007 00:46:37

Disease Images



IntroMedic®

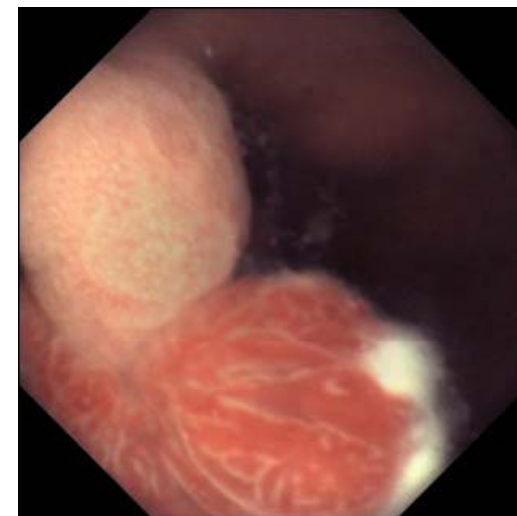
08 Aug 2007 00:09:53



IntroMedic®

19 Nov 2007 00:04:52

Gastric polyp



IntroMedic®

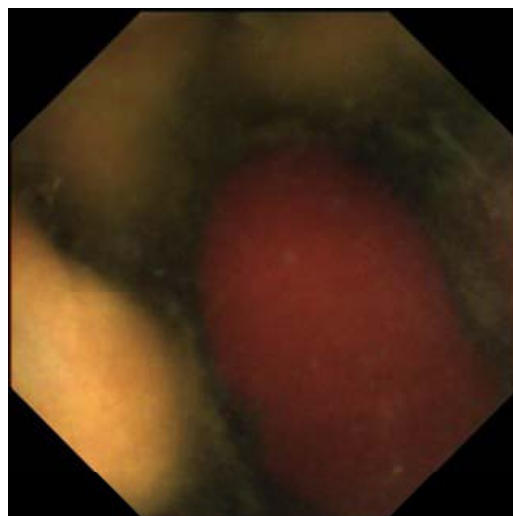
19 Nov 2007 00:05:07



IntroMedic®

17 Sep 2007 04:35:11

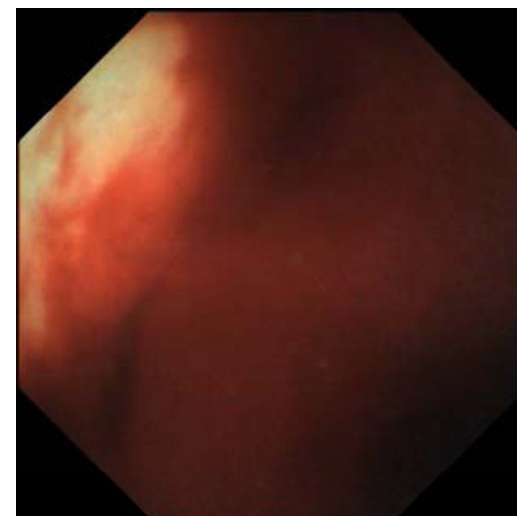
Stomach cancer



IntroMedic®

26 Jun 2007 00:33:13

Gastric bleeding



IntroMedic®

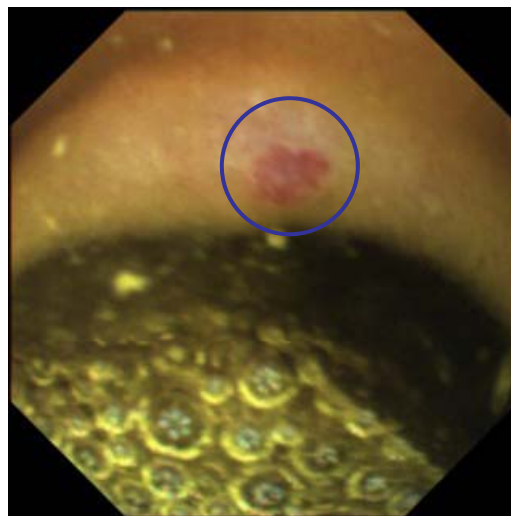
26 Jun 2007 00:42:01

Disease Images



IntroMedic®

06 Aug 2007 01:44:26



IntroMedic®

27 Jun 2007 02:13:52

Angiodysplasia



IntroMedic®

17 Dec 2007 08:34:17



IntroMedic®

26 Nov 2007 00:25:04



IntroMedic®

26 Nov 2007 05:08:58

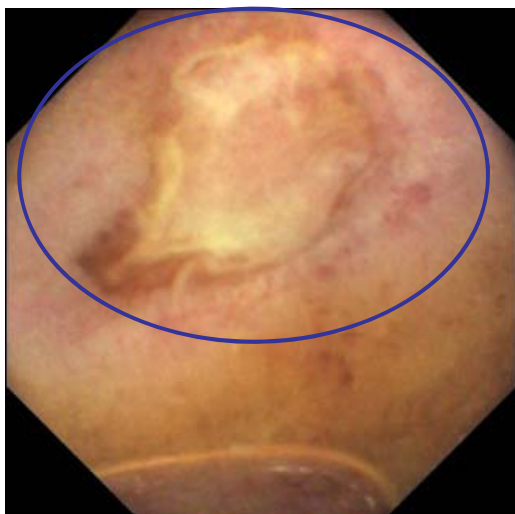
Aphthous ulcer



IntroMedic®

26 Nov 2007 02:38:39

Disease Images



IntroMedic®

21 Sep 2007 03:03:03



IntroMedic®

21 Sep 2007 01:59:30

Bechet's



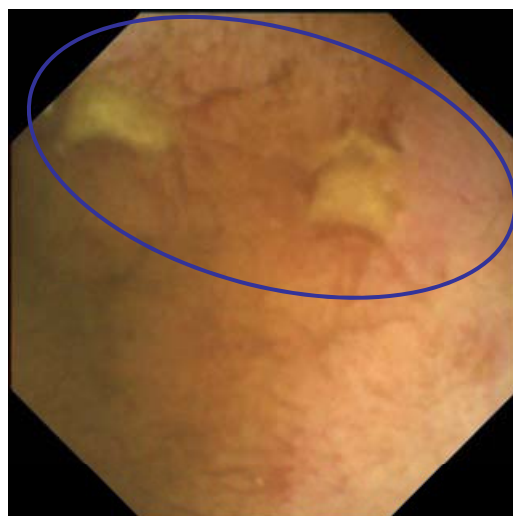
IntroMedic®

21 Sep 2007 06:41:53



IntroMedic®

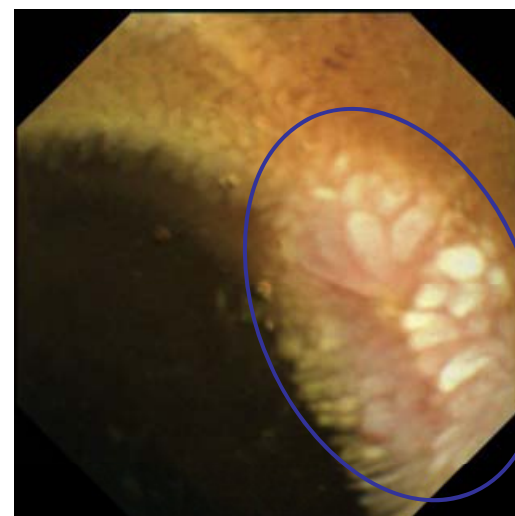
27 Jun 2007 05:17:43



IntroMedic®

27 Jun 2007 07:36:39

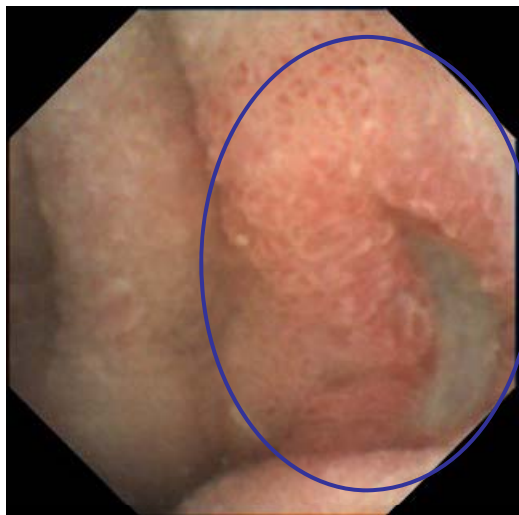
Crohn's



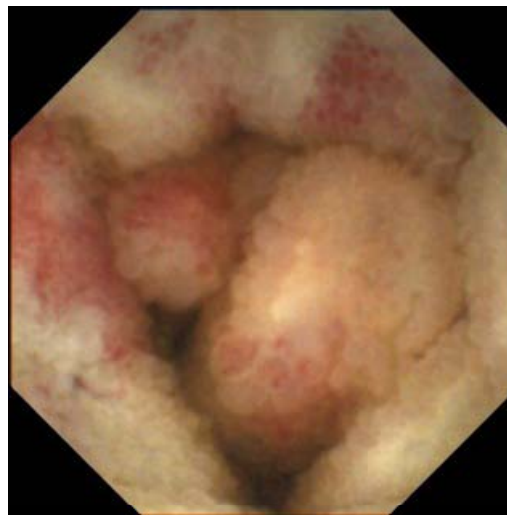
IntroMedic®

27 Jun 2007 02:31:19

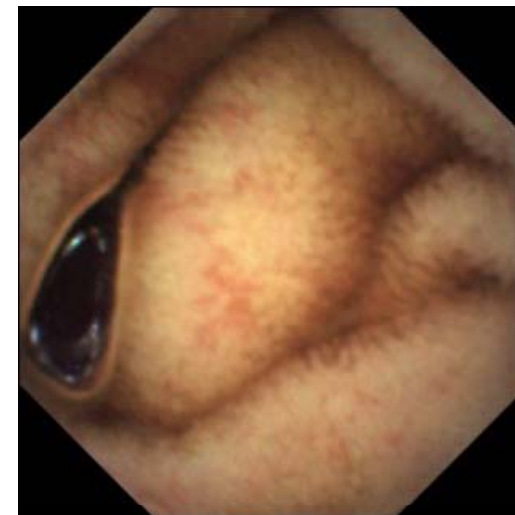
Disease Images



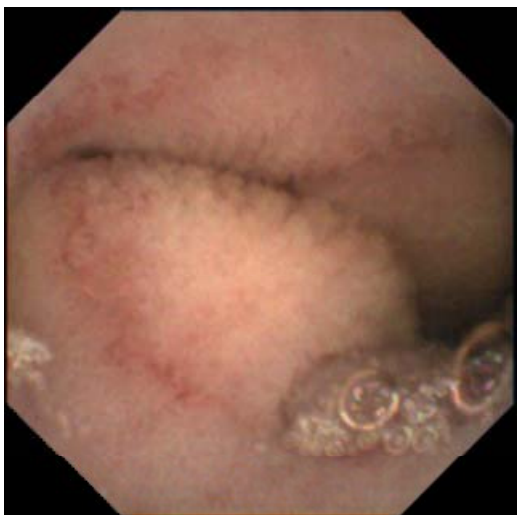
IntroMedic® 09 Jul 2007 00:10:03
Duodenal ulcer



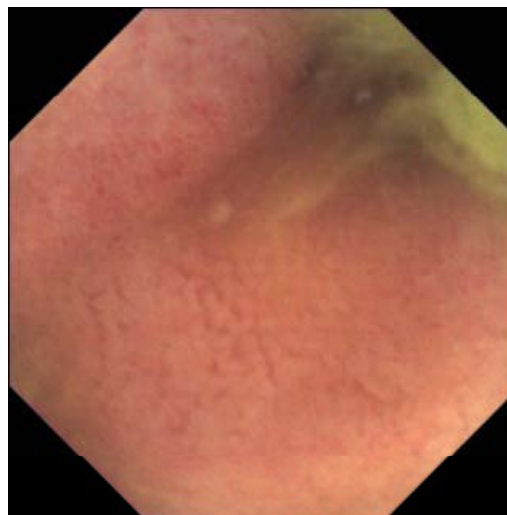
IntroMedic® 05 Jul 2007 03:58:25
Enteritis



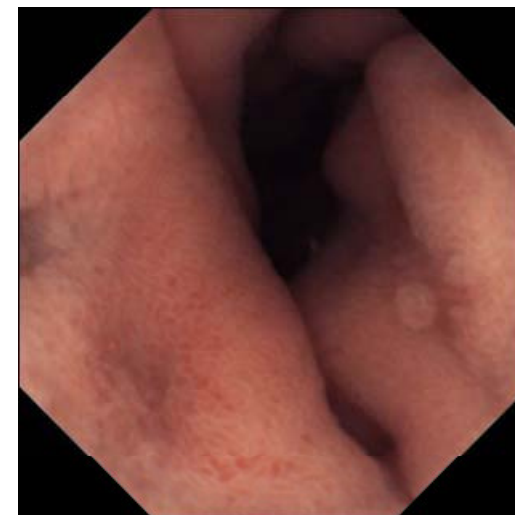
IntroMedic® 29 Nov 2007 00:13:55



IntroMedic® 19 Jun 2007 00:37:22



IntroMedic® 22 Nov 2001 02:52:45
Duodenitis



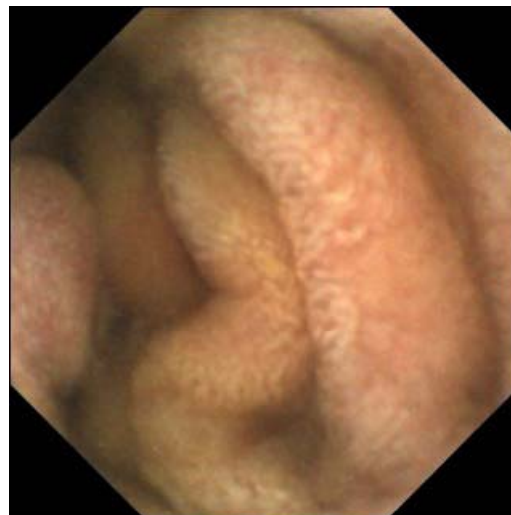
IntroMedic® 29 Nov 2007 00:28:56

Disease Images



IntroMedic®

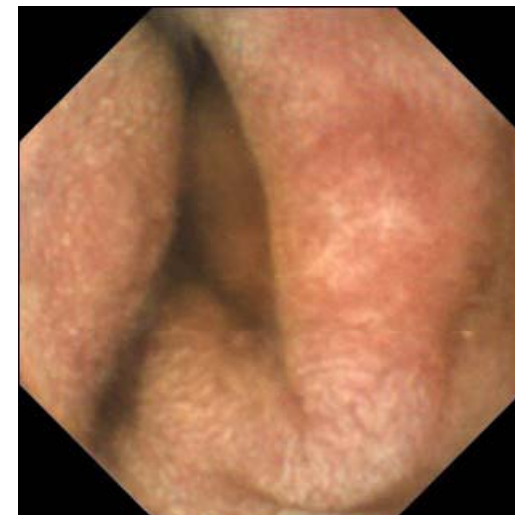
03 Aug 2007 01:26:47



IntroMedic®

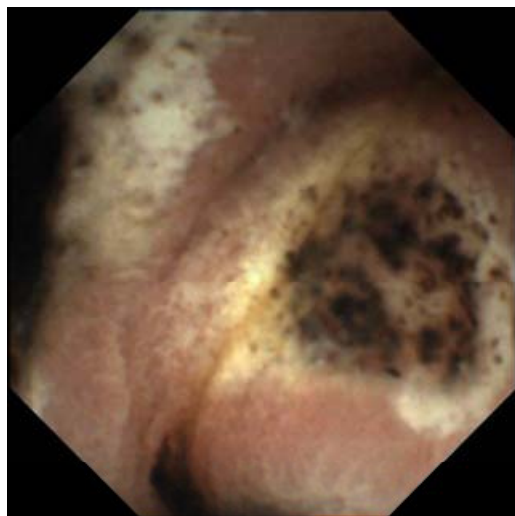
03 Aug 2007 01:27:10

Lupus Enteritis



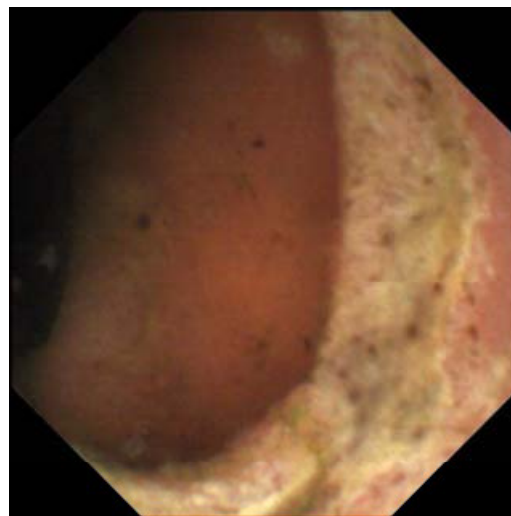
IntroMedic®

03 Aug 2007 01:27:07



IntroMedic®

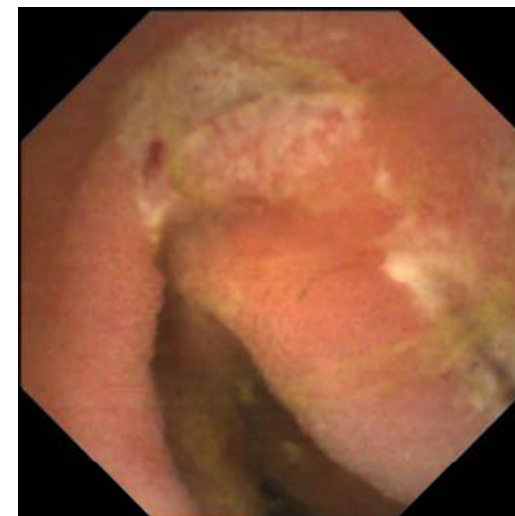
12 Jul 2007 03:14:40



IntroMedic®

12 Jul 2007 03:45:38

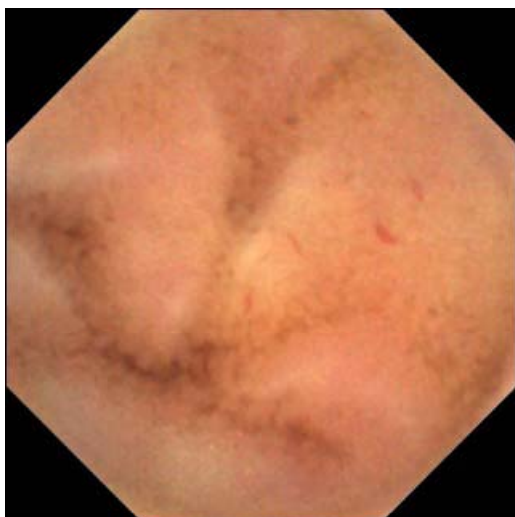
NSAID enteritis



IntroMedic®

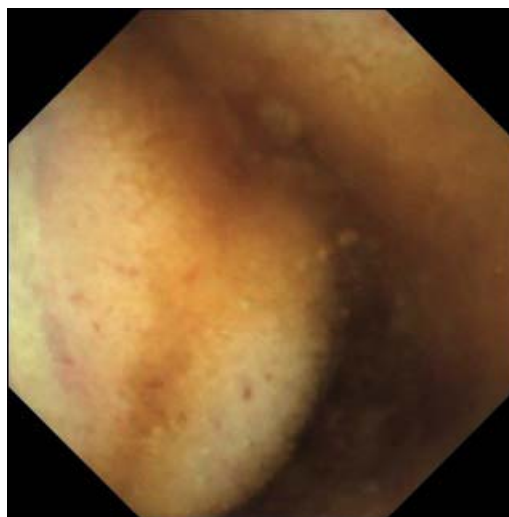
12 Jul 2007 03:36:03

Disease Images



IntroMedic®

06 Aug 2007 01:41:10



IntroMedic®

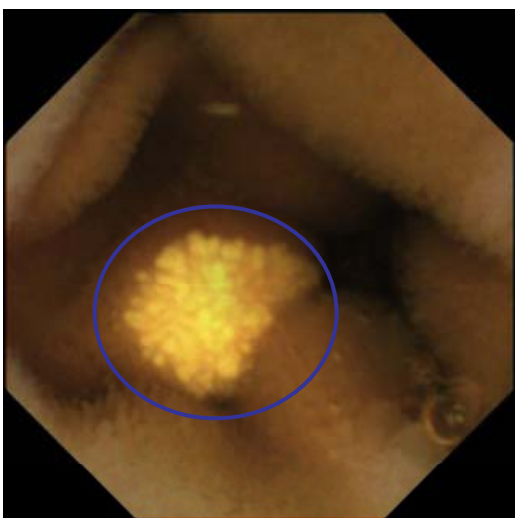
Hematin

26 Nov 2007 01:37:08



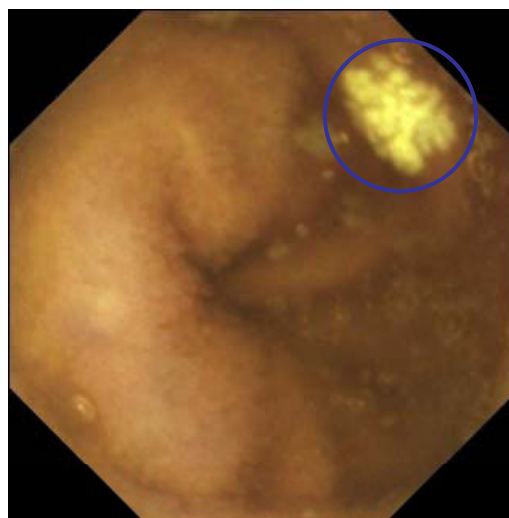
IntroMedic®

26 Nov 2007 01:58:06



IntroMedic®

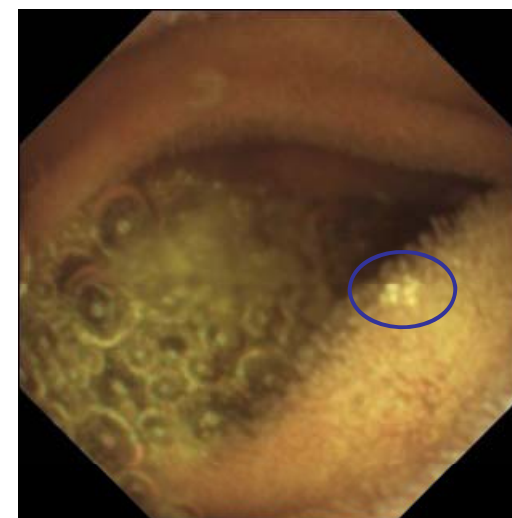
05 Jul 2007 01:36:23



IntroMedic®

Lymphangiectasia

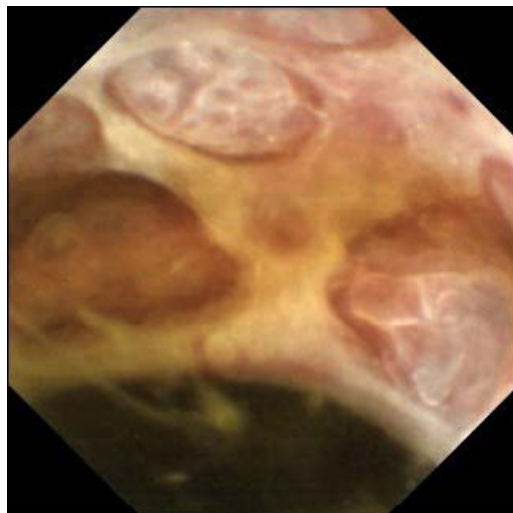
11 Nov 2007 03:18:39



IntroMedic®

27 Nov 2007 01:26:54

Disease Images



IntroMedic®

25 Jul 2007 00:59:54



IntroMedic®

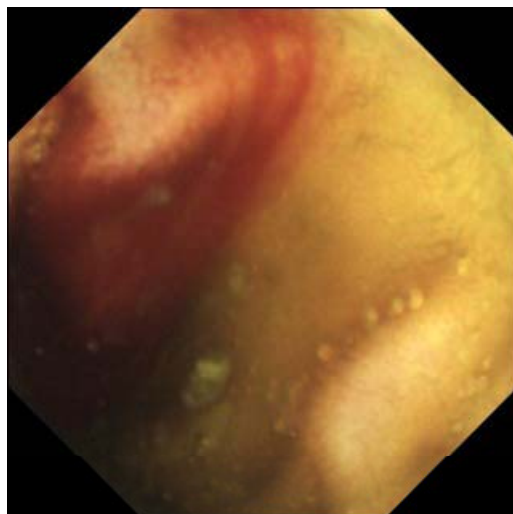
11 Nov 2007 04:47:12

Small Bowel ulcer



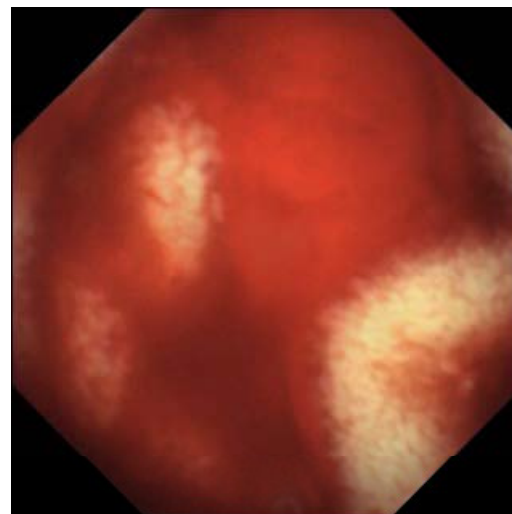
IntroMedic®

05 Jul 2007 02:15:22



IntroMedic®

01 Aug 2007 04:25:26



IntroMedic®

28 Aug 2007 06:09:09

Small Bowel bleeding



IntroMedic®

06 Aug 2007 01:26:12

IntroMedic
Capsule Endoscope

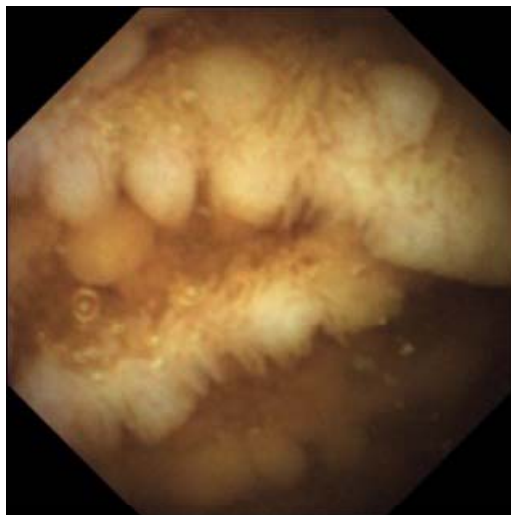
Disease Images



IntroMedic®

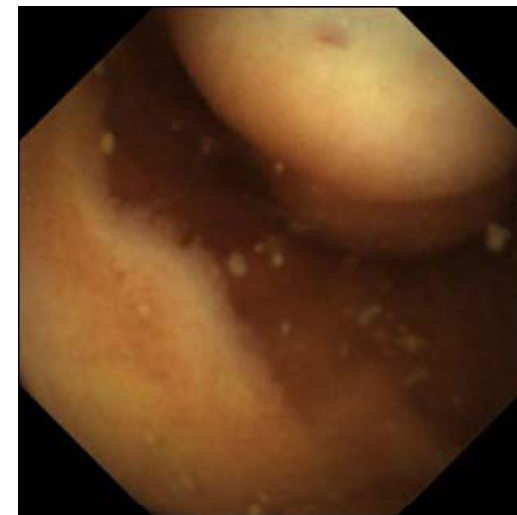
09 Jul 2007 00:06:20

Small Bowel polyp



IntroMedic®

06 Dec 2007 03:23:15



IntroMedic®

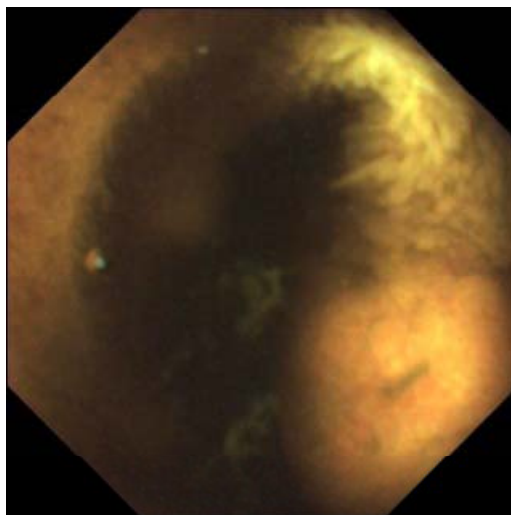
09 Oct 2007 02:07:50

Small Bowel tumor



IntroMedic®

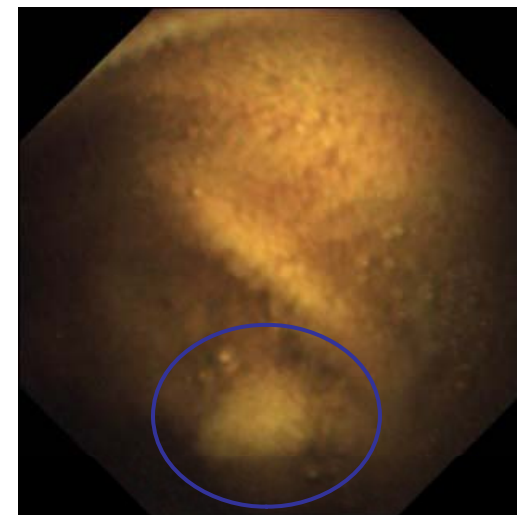
04 Dec 2007 00:24:56



IntroMedic®

04 Dec 2007 07:22:25

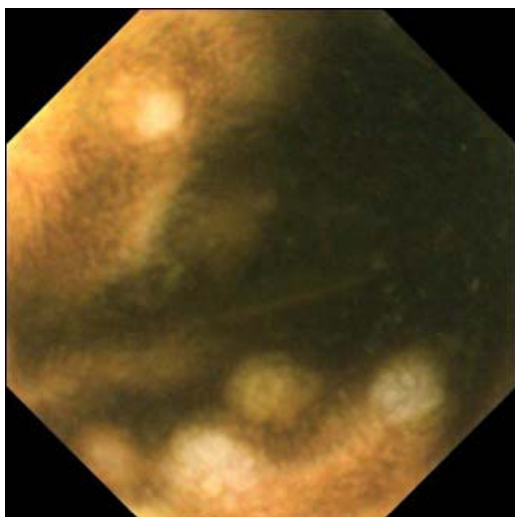
Peutz-Jeghers



IntroMedic®

04 Dec 2007 07:10:37

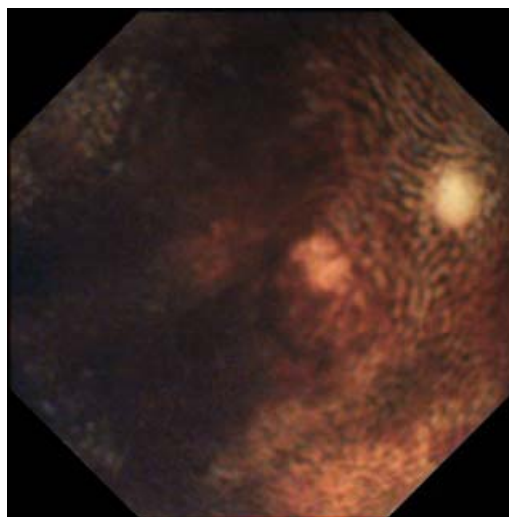
Disease Images



IntroMedic®

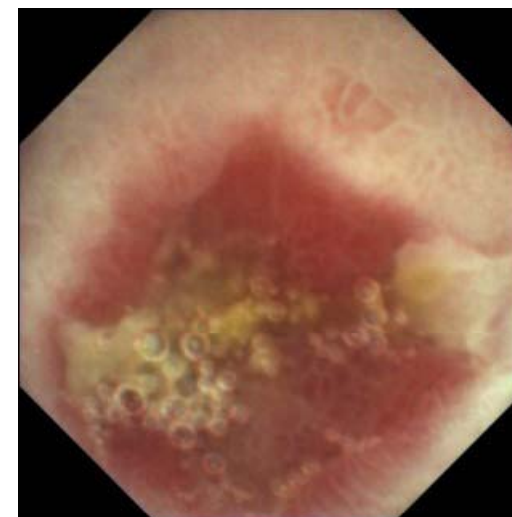
24 Jul 2007 06:57:07

Lymphoid Hyperplasia



IntroMedic®

27 Jun 2007 07:25:02



IntroMedic®

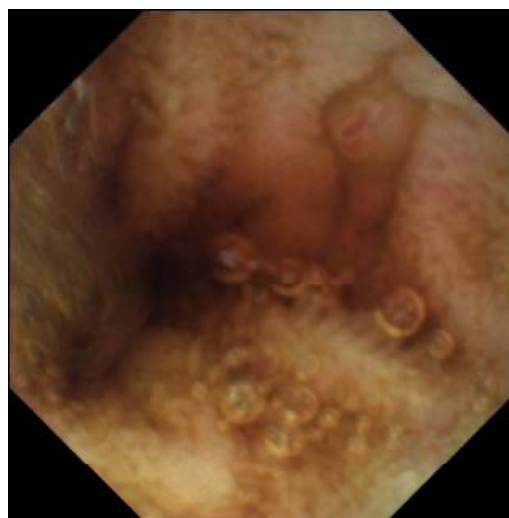
17 Dec 2007 05:33:37

Stricture



IntroMedic®

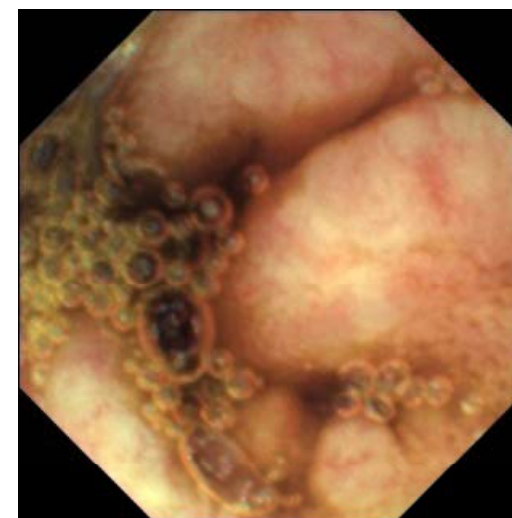
05 Dec 2007 01:04:54



IntroMedic®

05 Dec 2007 02:37:38

Hypobetalipoproteinemia



IntroMedic®

05 Dec 2007 03:27:30

Thank you