

# COMPLICATIONS OF CAPSULE ENDOSCOPY

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# CONTRAINDICATIONS

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- Swallowing disorders
- Small-bowel obstruction
- Small-bowel stenosis

# COMPLICATIONS

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- Capsule retention
- Capsule aspiration
- Technical problems

# CAPSULE RETENTION

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- Delayed in digestive tract minimum 2 weeks(7 years)
- 2% (Medic 1%)
- Abd plain X-ray or CT scan
- Asymptomatic, sometimes signs of obstruction or perforation

# RETENTION: TREATMENT

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- Medical treatment for IBD
- Endoscopic retrieval
- Surgery

# RETENTION: PREVENTION

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- Check
- Contraindications
- Consent
- Capsule patency

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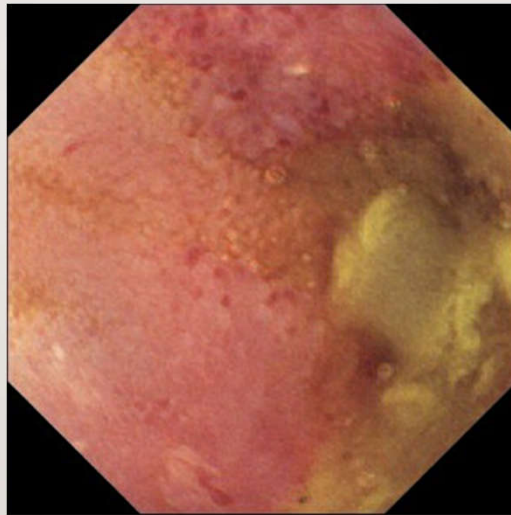


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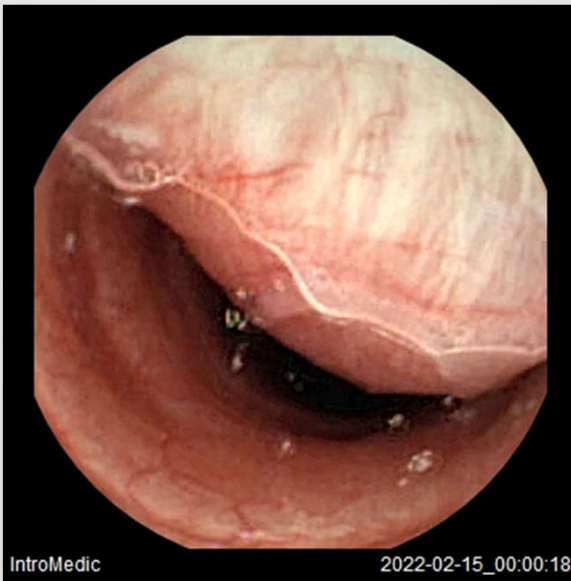
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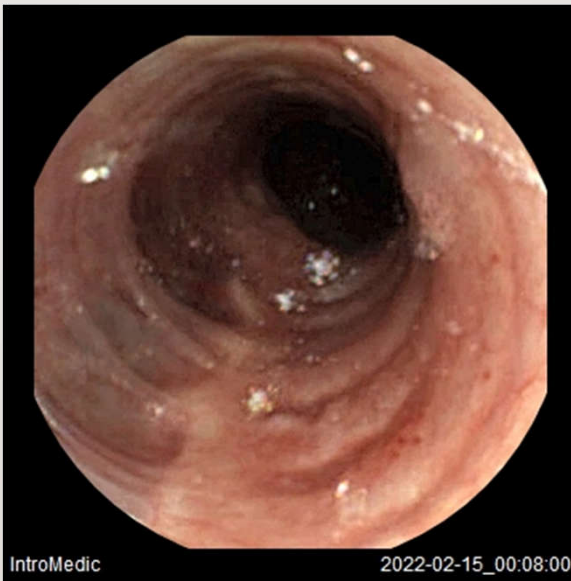


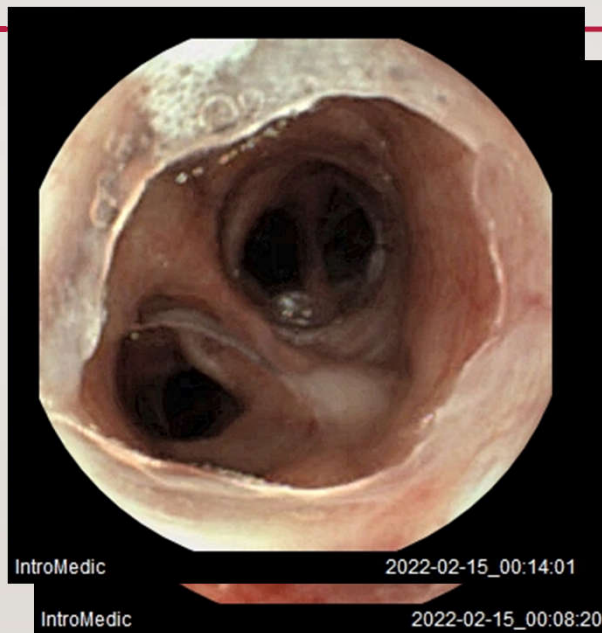
# CAPSULE BRONCHIAL ASPIRATION

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- Rare 1/1000
- Older males without history of swallowing disorders
- Asymptomatic or respiratory failure
- Spontaneous return into digestive tract
- Rigid bronchoscope









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## JOURNAL MENU ▾

First author [ref.], year	Age, years/gender	History of swallowing disorders	Acute presentation	Favorable outcome	Mode of extraction	Subsequent GI video-exploration	Mode of subsequent insertion of the capsule in the GI tract
Schneider [see ref. 1], 2003	64/?	no	yes	yes	spontaneous	yes	none
Sinn [see ref. 1], 2004	69/f	no	yes	yes	spontaneous	yes	none
Tabib [see ref. 1], 2004	87/m	no	yes	yes	rigid bronchoscopy	?	?
Buchkremer [see ref. 1], 2004	74/m	no	no	yes	flexible bronchoscopy	?	?
Rondonotti [see ref. 1], 2005	7/?	no	no	yes	spontaneous	?	?
Shiff [see ref. 1], 2007	67/m	yes	yes	yes	rigid bronchoscopy	?	?
Nathan [see ref. 1], 2007	93/m	no	no	yes	spontaneous	yes	none
Sepehr [see ref. 1], 2007	67/m	yes	yes	yes	rigid bronchoscopy	?	?
Guy [see ref. 1], 2009	90/m	no	no	yes	rigid bronchoscopy	no	none
Leeds [see ref. 1], 2009	85/m	no	no	yes	spontaneous	?	?
Bredenoord [see ref. 1], 2009	65/m	?	yes	yes	spontaneous	yes	none
Choi [see ref. 1], 2010	75/m	no	no	yes	rigid bronchoscopy	?	?
Depriest [see ref. 1], 2010	90/m	no	no	yes	rigid bronchoscopy	yes	?
Kurtz [see ref. 1], 2010	73/m	no	yes	yes	rigid bronchoscopy	?	?
Lucendo [1], 2011	80/m	no	yes	yes	spontaneous	yes	none
Koulaouzidis [2], 2011	76/m	?	no	yes	spontaneous	yes	none
Pezzoli [3], 2011	82/m	no	no	yes	spontaneous	yes	none

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## JOURNAL MENU ▾

Lucendo [1], 2011	80/m	no	yes	yes	spontaneous	yes	none
Koulaouzidis [2], 2011	76/m	?	no	yes	spontaneous	yes	none
Pezzoli [3], 2011	82/m	no	no	yes	spontaneous	yes	none
Degani [4], 2011	74/m	no	no	yes	rigid bronchoscopy	?	?
Borman [5], 2011	84/m	no	yes	yes	rigid bronchoscopy	?	?
Girdhar [6], 2012	83/m	no	no	yes	rigid bronchoscopy	?	?
Despott [13], 2012	65/m	no	no	yes	rigid bronchoscopy	yes	same endoscopy
	73/m	no	no	yes	flexible bronchoscopy	yes	subsequent endoscopy
	81/m	no	no	yes	rigid bronchoscopy	?	?
Parker [7], 2012	77/f	no	yes	no	spontaneous	yes	subsequent endoscopy
Singh [8], 2013	56/m	no	no	yes	rigid bronchoscopy	?	?
Pereira [9], 2013	78/m	no	yes	yes	spontaneous	yes	none
Ding [10], 2013	80/m	no	yes	yes	spontaneous	?	?
	88/m	no	yes	yes	spontaneous	yes	none
Mannami [11], 2015	85/m	no	no	yes	spontaneous	yes	none
Juanmartíñena Fernández [12], 2016	82/m	no	no	yes	spontaneous	yes	none

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?, not reported in the publication; GI, gastrointestinal.

# CAUTION

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- Prior abd surgery
- Diabetes
- Cardiac pacemakers and implantable cardiac defibrillators



# TECHNICAL PROBLEMS & LIMITATIONS

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- Gaps in recording
- Short battery life
- Inability to swallow capsule
- Delayed gastric emptying