

Suppl Table 3

Study (design)	Tech.	No. of Patients	No of inserted FM	Median FEV ₁ (%)	Previous major lung surgery (%)	Nodule Size, Mean long axis (mm)	Nodule size, median long axis (mm)	Nodule to pleural median distance (mm)	Type of Anesthesia	Fluoroscopy	Median time delay between procedure and planning CT-scan (days)	Migration(%)/FM type	FM commercial name	Tracking rate (%)	Mediastinal infection rate (%)	Pneumothorax No (% of procedures)	TBx rate (% of patients)
Anantham et al, 2007 ²⁹ (prospective)	ENB	8	39	35% (30-53)	13%	33 (20-57)	38 (20-57)	NP	LA	No	NP (7-10)	10%/linear	Gold seeds Alpha	100%	NA	No (systematic chest X-ray)	NR
Lachkar et al, 2018 ³⁰ (retrospective)	R-EBUS + virtual bronchoscopy	34	34	42 (19-65)	32	NP	15 (9-20)	28 (0-68)	LA 77%, GA 24%	No	59 (6-150)	17.6%/linear	Marker Kit, Best Medical	83%	NA	No (systematic chest X-ray)	85%
Hagmeyer et al, 2014 ³¹ (retrospective)	ENB	6	30	34%	NP	NP	NP	NP	GA	Yes	10-14	10%/linear	Gold seed Civco	100%	NA	No (systematic chest X-ray)	NP
Harley et al, 2010 ³² (design not clear)	EBUS ± ENB	43	161	NP	NP	28 (9-65)	NP (9-65)	NP	GA	Yes	10-14	13%/linear	351-2, 351-1 Best	100%	NA	1 (2)	NP (systematic Chest X-ray)
Dobelbower et al, 2020 ³³ (prospective)	R-EBUS	69	207	NP	NP	NP	NP	NP	NP	NP	NP	0%/coil-tailed	Home-made	99%	NA	2 (3)	0%
Lachkar et al, 2020 ³⁴ (retrospective)	R-EBUS	30	30	NP	47	NP	15 (8-25)	14 (0-53)	LA 60%, GA 40%	No	29 (14-126)	0%/coil-tailed	SuperLock	100%	NA	No (systematic chest X-ray)	100
Rong et al, 2015 ⁴³ (retrospective)	ENB	15	55	NP	NP	20 (8-36)	16 (8-36)	NP	NP	Yes	NP	0%/coil-tailed	SuperLock	100%	NA	NP	0%
Belanger et al, 2019 ³⁵ (retrospective)	ENB	65	131	NP	NP	NP	NP (15-28)	NP (7-36)	GA	No	7	<1%/linear + coil-tailed	SuperLock (coil-tailed), Visicoil IBA (linear)	100%	NA	No	NP (overall population; 86% (systematic chest X-ray)
Jackson et al, 2016 ⁴² (prospective)	R-EBUS	10	11	NP	NP	NP	NP	NP	LA	Yes	NP	18%/linear and two-band (migration concerned linear FM)	Visicoil IBA (linear), superDimension (two-band)	NP	NP	NP	NP

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Steinfors et al, 2015 ³⁶ (prospective)	R-EBUS ± ENB	15	18	NP	19%	24 (5-59)	19 (5-59)	NP	GA	Yes	NP	16%/linear + two-band (migration concerned linear FM)	Visicoil, Robertson (linear), superDimension (two-band)	88%	NA	No	50% (systematic chest X-ray)
Bowling et al, 2019 ³⁷ (prospective)	ENB ± R-RBUS	246/ 258	563	NP	NP	NP	NP	NP	LA 32%, GA 68%	?	0 (0-341)	6%/two-three band, + coil-spring + coil-tailed	superDimension (two and three-band), Vort-X (coil-spring), SuperLock (coil-tailed)	NP	NA	14 (5)	83%
Minnich et al, 2015 ⁴¹ (retrospective)	ENB	48	127	NP	NP	NP	NP	NP	GA	NP	NP	3%/coil-spring 27%/two-band 30%/linear	VortX (coil-spring), gold seed, SuperDimension?(two-band)	NP	NA	NP	NP
Nabavizadeh et al, 2014 ³⁸ (retrospective)	ENB+ R-EBUS	31	105	NP	NP	23 (8-44)	NP (8-44)	NP	GA	Yes	24 (5-110)	2%/coil-spring	Vort-X	100%	NA	2 (6%) (systematic chest X-ray)	91%
Schroeder et al, 2010 ³⁹ (prospective)	ENB	52	234	NA	NA	24 (8-53)	NA	NP	LA	No	NP(7-14)	53%/linear 1%/coil-spring	Gold seed Civco (linear), Vort-X (coil-spring)	97%	NA	3 (6)	35%
Casutt et al, 2021 ⁴⁰ (retrospective)	±R-EBUS (47%)	52	207	54 (19-118)	37	11-15# (4.0-25.0)	10-13# (4.0-25.0)	14-18# (0-66)	LA 78%, GA 22%	Yes	7 (1-107)	8%/coil-spring	Tornado	93%	NA	No	13%

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Legend:

ENB; electromagnetic navigation bronchoscopy

FEV1; forced expiratory volume in the 1 second

FM; fiducial marker

GA; general anesthesia

Gold seeds Alpha; Gold seeds Alpha-Omega Service, Bellflower, CA

Gold seed Civco; Gold seed Civco Medical Solutions, Orange City, Iowa

LA; local anesthesia

NA; not applicable

NP; not published

R-EBUS; radial-endobronchial ultrasound

SuperLock®; SuperLock, Covidien Inc, Minneapolis, MN

SuperDimension®; SuperDimension, Covidien Inc, Minneapolis MN

TBx; transbronchial biopsy

Tornado®; Tornado, Cook Medical, Bloomington, Indiana, USA

Visicoil™ IBA; Visicoil, IBA Dosimetry, Barlett, TN

Visicoil™, Robertson; Visicoil, Robertson medical, Coffs Harbour, Australia

Vort-X-35® or Vort-X-18®; Vort-X-35 or Vort-X-18, Boston scientific, Cork, Ireland

351-2, 351-1 Best; 351-2, 351-1 Marker Kit, Best Medical International

; two observer

*: previous lobectomy or pneumonectomy

°: authors described two-band FM insertion but SuperLock, Covidien was noted in the methodology (SuperDimension, Covidien is a two-band FM)