

### *Supplementary material*

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*Li J, Li L, Li Y, et al. Magnetically controlled capsule endoscopy in aging patients with cardiac implantable pacemakers: A retrospective pilot study. Pol Heart J. 2024.*

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**Table S1.** Characteristics and indications for MCE in the CIED group

N	Age	Sex	Symptoms	MCE time	MCE		CIEDs				
					Indications	Outcomes	MR labeled	Implantation time	Modes	Company	Indications
1	91	F	Left subclavian lymph node enlargement	2018/3/15	SRD: COPD	Gastritis	Yes	2016	DDD	Medtronic	High degree atrioventricular block
2	88	M	Poor appetite	2018/5/11	SCD: PE	Gastritis, GERD	No	2013	DDDR	Medtronic	Brady-tachy arrhythmia

											syndrome
3	81	M	Poor appetite	2018/8/16	SCD: PE, mitral valve prolapse, immune thrombocytopenia	Gastritis, GERD	Yes	2017	VVI	BIOTRONIK	Atrial fibrillation with long R-R interval
4	91	M	GI hemorrhage (melena)	2018/8/27	SCD: pulmonary hypertension	Gastritis, gastric polyp	No	2013	VVI	Medtronic	Sick sinus syndrome
5	84	M	Elevated tumor markers for GI malignancies	2018/9/11	SCD: PE SRD: COPD	Gastritis, angioectasia	No	2009	DDD R	Medtronic	Sick sinus syndrome
6	95	F	GI hemorrhage (melena)	2020/10/29	Poor physical condition	Ulcers with malignant morphology in antrum	No	Unknown	VVI	Unknown	High degree atrioventricular block

7	90	M	Left subclavian lymph node enlargement	2021/10/21	SCD: cardiac valvular disease SRD: interstitial lung diseases	Gastritis, Gastric polyp	Yes	2021	VVI	Medtronic Medtronic (Micra™ MC1VR01)	Sick sinus syndrome
8	87	M	GI hemorrhage (melena)	2021/11/25	SCD: cardiac valvular disease	Gastric polyp, esophagitis, hiatal hernia	No	2012	DDD R	St. Jude Medical	High degree atrioventricular block
9	76	M	Elevated tumor markers for GI malignancies	2022/7/14	SCD: PE, severe coronary artery stenosis	Esophagitis, gastric ulcers	Yes	2018	DDD R	St. Jude Medical	High degree atrioventricular block
10	92	F	Left subclavian lymph node enlargement	2022/7/21	SRD: CDPD	Esophagitis, gastritis	Yes	2016	DDD R	Medtronic	High degree atrioventricular block

11	83	M	Left subclavian lymph node enlargement	2022/10/31	SCD: severe stenosis of subclavian artery, deep vein thrombosis	Gastric ulcers	No Yes <sup>a</sup>	2009 2022-06 'Mismatched' CIED	DDD R	St. Jude Medical	Bradyarrhythmia
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<sup>a</sup>Mismatched CIED: MR-labeled generator and MR-unlabeled leads

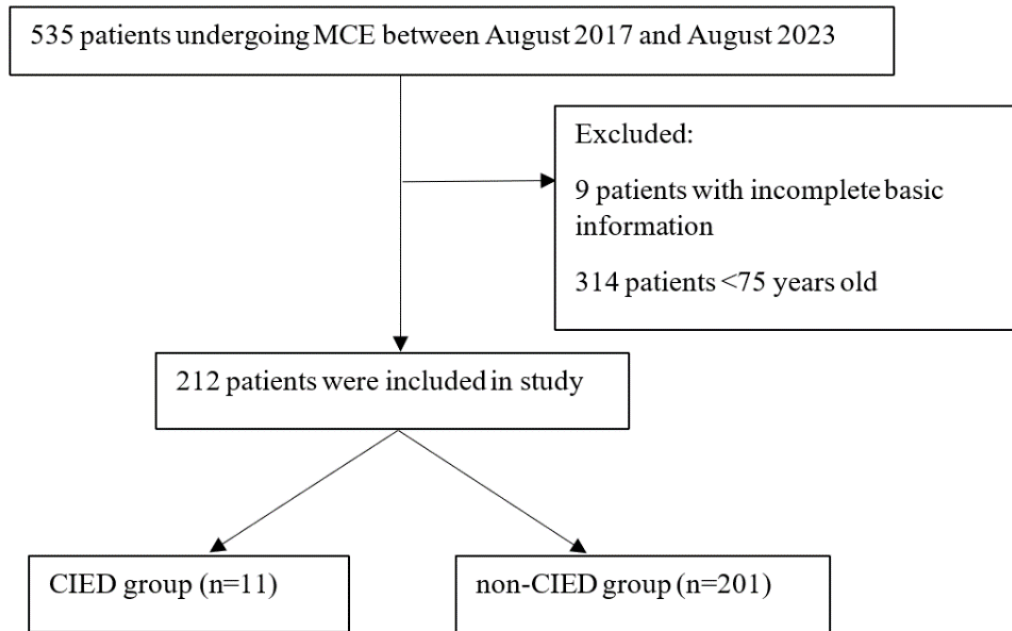
VVI, ventricular inhibited pacing, is a programmed mode that inhibits ventricular pacing when intrinsic ventricular activation is sensed. DDD(R), physiologic pacemaker, it has the ability to pace and sense both the atria and the ventricles with inhibition and tracking. R, means adjusting the pacing frequency according to the patient's activity needs. Medtronic, Minnesota, MN, US. BIOTRONIK, Berlin, Germany. St. Jude Medical, Minnesota, MS, US. Micra™ MC1VR01, is an implantable wireless pacing system

Abbreviations: CIED, cardiac implantable electronic device; COPD, chronic obstructive pulmonary disease; GI, gastrointestinal; MCE, magnetically controlled capsule endoscopy; MR, magnetic resonance; PE, pulmonary embolism; SCD, severe cardiovascular disease; SRD, severe respiratory disease

**Table S2.** Characteristics for the two groups (n = 212)

Characteristics	CIED (n = 11)	Non-CIED (n = 201)	<i>P</i> -value
Age, mean (SD)	87.1 (5.6)	85.6 (6.2)	0.44
Female, n (%)	3 (27.2)	38 (18.9)	0.45
Gastric examination time, mean (SD)	30.6 (5.7)	30.1 (10.1)	0.46
total visualization score, median (IQR)	16.0 (15.8, 18.0)	17.0 (16.5, 18.0)	0.11
total cleanliness score, median (IQR)	20.5 (17.5–21.3)	20.0 (19.0–21.0)	0.69
Positive findings, n (%)	11 (100)	174 (86.6)	0.37
Erosions, n (%)	4 (36.4)	47 (23.4)	0.30
Angioectasia, n (%)	0 (0)	3 (1.5)	1.00
Bleeding point, n (%)	3 (27.3)	25 (12.3)	0.16
Hyperemia/erythema, n (%)	4 (36.4)	96 (47.8)	0.55
Polyp, n (%)	4 (36.4)	76 (37.8)	1.00
Tumor, n (%)	1 (9.1)	10 (5.0)	0.45

Abbreviations: CIED, cardiac implantable electronic device; IQR, interquartile ranges; SD, standard deviation



**Figure S1.** Schematic study flowchart

Abbreviations: CIED, cardiac implantable electronic devices; MCE, magnetically controlled capsule endoscopy