

Supplementary Table 1 Clinicopathological features of lesions detected in different diagnosis modality

Item	LCI-only group (4 patients/4 lesions)	LCE-only group (7 patients/7 lesions)	LCI + LCE group (32 patients/34 lesions)	P value
Lesion location				0.732
Upper 1/3	0	0	3	
Middle 1/3	1	1	10	
Low 1/3	3	6	21	
Morphologic type				0.354
I	0	0	1	
IIa	1	0	8	
IIb	1	7	17	
IIc	2	0	7	
III	0	0	1	
Size				0.016 ^a
≤ 10mm	3 (75%)	7 (100%)	11 (32.3%)	
10-20mm	0 (0%)	0 (0%)	3 (8.8%)	
> 20mm	1 (25%)	0 (0%)	20 (58.8%)	
Pathology				0.168
LGIN	4	7	14	
HGIN	0	0	3	
ESCC EP/LPM	0	0	3	
MM/SM1	0	0	1	
≥ SM2	0	0	13	

^aP-value < 0.05.

LCI: Linked color imaging; LCE: Lugol's staining; LGIN: Low-grade intraepithelial neoplasia; HGIN: High-grade intraepithelial neoplasia; ESCC: Esophageal squamous cell carcinoma.

Supplementary Table 2 Comparison of color difference between the lesion and surrounding mucosa in different diagnosis modality

Observation method	ΔE	ΔL^*	Δa^*	Δb^*
WLI <i>n</i> = 30	15.92 ± 7.50	-5.23 ± 11.57	4.97 ± 6.96	4.97 ± 7.54
LCI <i>n</i> = 30	21.20 ± 9.79	-8.87 ± 12.91	12.43 ± 10.00	2.23 ± 6.91
<i>P</i> -value	0.023 ^a	0.256	0.001 ^b	0.149

^a*P*-value < 0.05, ^b*P*-value < 0.01.

WLI: White light imaging; LCI: Linked color imaging.

Supplementary Table 3 Comparison of color difference between the lesion and surrounding mucosa in different esophageal neoplastic pathology in linked color imaging mode

Pathology	ΔE	ΔL^*	Δa^*	Δb^*
LGIN <i>n</i> = 13	20.66 ± 8.87	-10.62 ± 14.06	9.00 ± 10.17	2.46 ± 4.88
HGIN <i>n</i> = 4	25.60 ± 10.25	-4.25 ± 14.97	15.25 ± 11.44	6.50 ± 15.26
ESCC <i>n</i> = 13	20.39 ± 10.92	-8.54 ± 11.77	15.00 ± 9.11	0.69 ± 4.97
<i>P</i> -value	0.642	0.699	0.266	0.347

LCI: Linked color imaging; LGIN: Low-grade intraepithelial neoplasia; HGIN: High-grade intraepithelial neoplasia; ESCC: Esophageal squamous cell carcinoma.