

Supplementary Table 1: CRC diagnosis with composite score.

Variable	Odds ratio (95% CI)	p-value
miR-17-5p	2.75 (1.78-4.35)	< 0.001**
HSP	1.98 (1.34-2.94)	0.002**
Composite Score	3.10 (2.15-4.62)	< 0.001**
Age	1.05 (1.02-1.09)	0.005**
Smoking History	2.50 (1.10-5.69)	0.029*

HSP: Heat shock protein.

Supplementary Table 2: Pearson correlation matrix showing relationships among miR-17-5p, HSP, composite score, and clinical parameters.

Variable	miR-17-5p	HSP	Composite Score	Age	Smoking History	Comorbidities
miR-17-5p	1.00	0.62**	0.85**	0.34*	0.28*	0.22
HSP	0.62**	1.00	0.72**	0.31*	0.40**	0.26
Composite Score	0.85**	0.72**	1.00	0.41**	0.45**	0.32*
Age	0.34*	0.31*	0.41**	1.00	0.15	0.31*
Smoking History	0.28*	0.40**	0.45**	0.15	1.00	0.18
Comorbidities	0.22	0.26	0.32*	0.31*	0.18	1.00

HSP: Heat shock protein

Supplementary Table 3: Composite model combining miR-17-5p, HSP, and clinical parameters

Composite Score Model	AUC (95% CI)	Sensitivity (%)	Specificity (%)	Cut-off Score	Diagnostic Outcome	p-value (vs. Control)
miR-17-5p + HSP + Age + Smoking	0.94 (0.89-0.98)	91	92	5.0	Positive if ≥ 5.0	< 0.001**

HSP: Heat shock protein

Supplementary Table 4: Quantification analysis of miR-17-5P in derived samples

Cases	Mean expression fold changes	STD	<i>p</i> values
Control group	1.00	0.00	
Benign patients	2.66**	0.18	0.0058
CRC patients	5.07**	0.80	0.010

STD: Standard deviation, **: Indicates high significant *P* values ≤ 0.01

Supplementary Table 5: Quantification analysis of HSPs relative gene expression in obtained samples

Cases	Mean expression fold changes			STD			<i>p values</i>		
	HSP40	HSP70	HSP90	HSP40	HSP70	HSP90	HSP40	HSP70	HSP90
Control group	1.00	1.00	1.00	0.00	0.00	0.00			
Benign patients	1.21	0.34**	0.28**	0.10	0.03	0.02	0.0903	0.0012	0.0003
CRC patients	5.38**	0.47**	4.80**	0.12	0.04	0.31	0.0004	0.0024	0.0033

HSP: Heat shock protein. STD: Standard deviation, **: Indicates high significant *P* values ≤ 0.01