

Supplementary Data

Table S1: Frequencies of demographic, risk factor, life-style features.

Demographic feature	Conditions	Frequency (% and number)
Ethnicity	Fars	57.6% (34)
	Tork	27.1% (16)
	Kord	8.5% (5)
	Lor	6.8% (4)
Education	Illiterates and primarily educated	40.7% (24)
	Diplomas	27.1% (16)
	Academic	32.2% (19)
Occupation	More prone to cancer-related chemicals	11.9%(7)
	Less prone to cancer-related chemicals	88.1%(52)
Fast food intake	Seldom	23.7% (14)
	Often	76/3% (46)

Table S2: Frequencies of symptom-related features

Symptom	Conditions	Frequency (% and number)
Chronic constipation	Yes	40.7% (24)
	No	59.3% (35)
Chronic diarrhea	Yes	23.7% (14)
	No	76.3% (45)
Rectal bleeding	Seen	32.2% (19)
	Not seen	67.8% (40)
Fatigue	Seen	30.5% (18)
	Not seen	69.5% (41)
Rapid weight reduction	Seen	18.6% (11)
	Not seen	81.4% (48)
Continual abdominal pain	Seen	40.7% (24)
	Not seen	59.3% (35)
Anaemia	Positive	13.6% (8)
	Negative	86.4% (51)

Table S3: Chi-Square analysis results of possible correlations between miRNA-137 promoter methylation status and clinical- pathological features

Feature	Conditions	frequencies	miRNA-137M	miRNA-137U	p-value	Fisher`s exact test
Pathology	Adenoma	41	8(%19.5)	33(%80.5)	0.796	1.000
	Serrated	18	3(%16.7)	15(%83.3)		
Dysplasia	Low grade	35	3(%8.6)	32(%91.4)	0.016	.037
	Moderate/high grade	24	8(%33.7)	16(%66.3)		
Anatomic site in colon	Rectum	23	6(%26.1)	17(%73.9)	0.241	.310
	Colon	36	5(%13.9)	31(%86.1)		
Type	Polyp	51	8(%15.7)	43(%84.3)	.141	.160
	Tumor	8	3(%37.5)	5(62.5)		
Size	1-10mm	23	3(%13)	20(%87)	.377	.502
	>10mm	36	8(%22.2)	28(%77.8)		
Number	1	35	7(%20)	28(%80)	.747	1.000
	>1	24	4(%16.7)	20(%83.3)		
Sex	Female	30	1(%3.3)	29(%96.7)	.002	.002
	Male	29	10(%34.5)	19(%65.5)		
Age	<50 yrs	19	3(%15.8)	16(%84.2)	.698	1.000
	>50 yrs	40	8(%20)	32(%80)		
BMI	<25	16	2(%12.5)	14(%87.5)	.460	.710
	25 and more	43	9(%20.9)	34(%79.1)		
Ethnicity	Fars	34	6(%17.6)	28(%82.4)	.819	1.000
	Others	25	5(%20)	20(%80)		
Education	Academic	24	5(%20.8)	19(%79.2)	.721	.745
	Illiterates and primarily educated	35	6(%17.1)	29(%82.9)		
Occupation	less prone	52	10(%19.2)	42(%80.8)	.752	1.000
	More Prone to cancer-related chemicals Less prone to cancer-related chemicals	7	1(%14.3)	6(%85.7)		
Family history	Positive	17	8(%47.1)	9(%52.9)	.000	.001
	Negative	42	3(%7.1)	39(%92.9)		

Diabetes	Positive	6	1(%16.7)	5(%83.3)	.896	1.000
	Negative	53	10(%18.9)	43(%81.1)		
Blood pressure	Positive	10	1(%10)	9(%90)	.441	.670
	Negative	49	10(%20.4)	39(%79.6)		
NSAID consumption	Positive	12	2(%16.7)	10(%83.3)	.844	1.000
	Negative	47	9(%19.1)	38(%80.9)		
Smoking	Positive	14	2(%14.3)	12(%85.7)	.632	1.000
	Negative	45	9(%20)	36(%80)		
Alcohol consumption	Positive	9	5(%55.6)	4(%44.4)	.002	.008
	Negative	50	5(%12)	44(%88)		
Addiction	Positive	2	2(%100)	0(%0)	0.003	.032
	Negative	57	9(%15.8)	48(%84.2)		
Regular exercise	Positive	32	6(%18.8)	26(%81.3)	.982	1.000
	Negative	27	5(%18.5)	22(%81.5)		
Vegetable/fruit consumption	Considerate	30	5(%16.7)	25(%83.3)	.692	.748
	Insufficient	29	6(%20.7)	23(%79.3)		
Red meat consumption	Considerate	22	6(%27.3)	16(%72.7)	.189	.300
	Inappropriate	37	5(%13.5)	32(%86.5)		
Gassy drink consumption	Moderate intake	14	3(%21.4)	11(%78.6)	.759	.712
	Too much	45	8(%17.8)	37(%82.2)		
Chronic constipation	Yes	24	5(%20.8)	19(%79.2)	.721	.745
	No	35	6(%17.1)	29(%82.9)		
Chronic diarrhea	Yes	14	3(%21.4)	11(%78.6)	.759	.721
	No	45	8(%17.8)	37(%82.2)		
Rectal bleeding	Seen	19	2(%10.5)	17(%89.5)	.270	.476
	Not seen	40	9(%22.5)	31(%71.5)		
Fatigue	Seen	18	3(%16.7)	15(%83.3)	.796	1.000
	Not seen	41	8(%19.5)	33(%80.5)		
Rapid weight reduction	Seen	11	2(%18.2)	9(%81.8)	.965	1.000
	Not seen	48	9(%18.8)	39(%81.3)		
Abdominal pain	Seen	24	4(%16.7)	20(%83.3)	.747	1.000
	Not seen	35	7(%20)	28(%80)		
Anemia	Seen	8	2(%25)	6(%75)	.620	.635
	Not seen	51	9(%17.6)	42(%82.4)		