Table 1: Proximate chemical composition, iron and vitamin C contents of date with and without hulls

Variables	Moisture	Protein	Fat	Carbo- hydrates	Fiber	Ash	Fe	Vitamin C
		(%)			(mg/100g)		100g)	
Date with H	$475^{a} \pm 0.5$	$4.4^{b}\pm0.1$	$0.93^{b}\pm0.04$	45.10 ^a ±0.61	15.3°a±0.1	1.7a±0.04	7.19 ^a ±0.02	3.5°a±0.04
Date without H	48.5°±0.5	4.8a±0.1	1.8a ±0.10	44.26a±0.63	11.1 ^b ±0.1	1.3 ^b ±0.1	6.93 ^b ±0.08	3.18 ^b ±0.03
LSD	1.33	0.23	0.17	1.1	0.23	0.17	0.12	0.08

Data are presented as mean \pm SD.

Table 2: Energy and dietary macronutrients intake of non-anemic and anemic children compared with DRI

	Anemic groups					
Variables	Non-anemic group	Positive control	Date with hulls	Date without hulls	LSD	DRI
Energy (k.cal)	2294.74a±33.9	2287.98 ^a ±57.9	2279.64a ±44.6	2287.8a±34.74	39.8	2279
Protein (g/d)	$34.75^{a}\pm0.27$	23.98°±0.70	31.44 ^b ±0.89	30.89 ^b ±1.27	0.79	34
Carbohydrate(g/d)	454.35 ^a ±10.9	461.78 ^a ±13. 6	462.37a±14.1	453.08 ^a ±10.61	11.6	-
Fat (g/d)	$38.1^{ab}\pm1.8$	37.87 ^{ab} ±5.9	34.46 ^b ±5.5	39.15a±2.3	3.9	-
Fiber (g/d)	$34.85^{a}\pm1.6$	31. 57 ^b ±1.7	$31.09^{b}\pm1.3$	33.66 ^a ±1.19	1.3	31

Means in the same row with different letters are significantly different ($p \le 0.05$).

Table 3: Dietary vitamins and minerals intake of non-anemic and anemic children compared with DRI

Variables	Non-anemic group	Anemic groups			LSD	DRI
		Positive Control	Date with hulls	Date without hulls		
Thiamin (mg/d)	$0.82^{a}\pm0.015$	$0.62^{b}\pm0.19$	$0.61^{b}\pm0.02$	$0.61^{b}\pm0.02$	0.016	0.9
Riboflavin(mg/d)	$1.04^{a}\pm0.034$	$0.98^{b}\pm0.003$	$0.99^{b}\pm0.04$	$0.97^{b}\pm0.024$	0.03	0.9
Vitamin A (μg/d)	532.3 ^a ±22.5	$259.4^{b}\pm17.1$	225.4°±9.9	$203.3^{d}\pm2.1$	13.6	600
Vitamin C(mg/d)	$55.23^{a}\pm1.1$	55.10 ^a ±1.2	55.58 ^a ±1.1	55.88 ^a ±1.3	1.05	45
Vitamin E (μg/d)	$8.29^{a}\pm0.34$	$6.13^{\circ} \pm 0.27$	$6.18^{\circ} \pm 0.24$	$7.05^{b}\pm0.26$	0.26	11
Calcium (mg/d)	$983.50^{a}\pm2.3$	$412.07^{d}\pm10.5$	432.87°±8.6	464.7 ^b ±30.97	15.4	1300
Phosphorus(mg/d)	898.65 ^b ±28.8	$937.32^{a}\pm 9.7$	951.11 ^a ±18.7	942.16 ^a ±9.4	16.75	1250
Iron (mg/d)	$12.97^{a}\pm0.25$	$5.96^{b}\pm0.27$	5.66°±0.19	$5.76^{bc} \pm 0.21$	0.21	8
Zinc (mg/d)	$10.10^{a}\pm0.17$	$6.29^{b}\pm0.14$	$5.95^{\circ} \pm 0.14$	$6.17^{bc} \pm 0.43$	0.226	8

Means in the same row with different letters are significantly different ($p \le 0.05$).

Table 4: Anthropometric measurements of non-anemic and anemic children

Variables	Non-anemic group	Positive control	Date with hulls	Date without hulls	LSD
Age (year)	$10.4^{a}\pm0.6$	$10.2^{a} \pm 0.9$	$10.0^{a} \pm 0.8$	10.0 a±0.8	1.03
Height (cm)	$143.6^{a}\pm1.1$	$141.0^{a}\pm1.7$	141.6a±1.1	142.2 ^a ±1.9	3.03
Weight (kg)	44.1 ^b ±1.2	50.2 ^a ±1.3	42.8 ^b ±3.3	$48.5^{a}\pm2.6$	2.04
BMI	21.39 ^b ±0.7	25.26 ^a ±1.1	21.33 ^b ±1.4	23.99 ^a ±1.1	1.46

Means in the same row with different letters are significantly different ($p \le 0.05$).

BMI: Body mass index.

Table 5: Effect of black date on the hemoglobin, haematocrit, red blood cell and mean corpuscular volume of non-anemic and anemic children

Variables	Time	Non-anemic group	Anemic groups			
	(week)		Positive control	Date with hulls	Date without hulls	LSD
	0	13.48a ±0.24	$10.44^{b}\pm0.23$	$10.62^{b}\pm0.10$	$10.66^{\mathrm{b}}\pm0.18$	0.37
Hb (g/dl)	4	$13.56^{a} \pm 0.11$	$10.26^{d} \pm 0.18$	$11.65^{\rm b} \pm 0.25$	$11.94^{\ b} \pm 0.25$	0.30
	8	$13.42^{a} \pm 0.31$	$10.52^{\circ} \pm 0.19$	$12.62^{b} \pm 0.19$	$12.40^{\text{ b}} \pm 1.11$	0.27
	0	$40.70^{a} \pm 0.29$	$31.34^{b} \pm 0.31$	$32.30^{b} \pm 0.66$	$32.32^{b} \pm 0.60$	1.86
Ht (%)	4	$40.38^{a} \pm 0.24$	$31.70^{\circ} \pm 1.23$	$34.58^{b} \pm 0.62$	$36.02^{b} \pm 0.82$	1.87
	8	$40.36^{a} \pm 0.42$	$31.98^{d}\pm1.15$	$35.08^{\circ} \pm 0.82$	$37.50^{b} \pm 0.63$	1.32
	0	4.78° ±0.05	4.26 ^b ±0.06	4.42 b ±0.07	4.32 ^b ±0.08	0.17
RBC (ml/cmm)	4	$4.88^{a} \pm 0.05$	$4.28^{\circ} \pm 0.08$	$4.43^{\text{ b}} \pm 0.07$	$4.45^{\rm b} \pm 0.09$	0.15
	8	$4.88^{a}\pm0.08$	$4.48^{b}\pm0.08$	$4.44^{\rm b} \pm 0.09$	$4.55^{\rm b} \pm 0.07$	0.30
	0	85.12a ±0.15	$73.58^{b} \pm 1.30$	73.09 ^b ±1.73	74.18 ^b ±2.01	2.44
MCV (fl)	4	$83.16^{a} \pm 0.44$	$74.05^{\circ} \pm 1.89$	$79.19^{b} \pm 1.62$	$80.92^{b} \pm 2.06$	1.88
	8	$82.71^a \pm 0.61$	$71.37^{b} \pm 1.66$	$81.65^{a} \pm 0.79$	$82.36^{a} \pm 1.75$	2.06
	0	28.20a ±0.35	24.51 b ±0.76	24.03 ^b ±0.53	24.47 ^b ±0.68	2.44
MCH (fl)	4	$27.93^{a} \pm 0.35$	$23.97^{d} \pm 0.19$	$26.05^{b} \pm 0.18$	$26.83^{b} \pm 0.75$	1.88
	8	$27.51^a \pm 0.91$	$23.48^{\circ} \pm 0.12$	$29.77^{b} \pm 0.63$	$27.23^{b} \pm 0.47$	2.06

Means in the same row with different letters are significantly different (p \leq 0.05).

HB: Hemoglobin; Ht: Haematocrit; RBC: Red blood cell; MCV: Mean corpuscular volume and MCH: mean corpuscular hemoglobin.

Table 6: Effect of black date on serum iron, serum ferritin, total iron binding capacity and transferrin saturation of non-anemic and anemic children

Variables	Time	Non-anemic group	Anemic groups			
	(week)		Positive control	Date with hulls	Date without hulls	LSD
	0	64.60°±0.91	37.38 ^d ±0.57	39.14 ^b ±0.68	39.02 ^b ±1.31	1.2
$SI(\mu g/dl)$	4	$63.00^{a}\pm1.26$	$39.08^{d} \pm 0.32$	$43.06^{\circ}\pm0.72$	$46.84^{b}\pm1.48$	1.4
., .	8	$67.84^{a}\pm0.96$	$41.24^{d}\pm0.61$	$60.30^{\circ} \pm 1.03$	$64.66^{b}\pm1.42$	1.4
	0	50.70 ^a ±1.55	26.13 ^b ±1.53	26.54 ^b ±1.54	27.12 ^b ±1.78	2.15
SF (μ g/dl)	4	$51.82^{a}\pm1.6$	$26.39^{\circ} \pm 1.55$	$31.85^{b}\pm1.86$	32.79 ^b ±1.67	2.33
· · · · ·	8	$51.71^{a}\pm1.55$	$26.65^{c} \pm 1.56$	$38.22^{b}\pm2.12$	$50.88^{a}\pm1.14$	2.33
	0	228.24 ^d ± 2	251.86 ^a ±1.5	242.54°±2.1	245.82 ^b ±1.4	2.40
TIBC (μ g/dl)	4	$235.12^{d}\pm1.8$	$254.38^{a}\pm1.5$	$240.10^{\circ}\pm2.2$	$243.38^{b}\pm1.3$	2.40
,, ,	8	$232.61^{d}\pm1.8$	252.60°a±2.1	$238.80^{\circ}\pm2.2$	$242.00^{b}\pm1.5$	2.62
	0	28.28 ^a ±0.31	14.84°±.0.21	16.12 ^b ±.0.25	15.86 ^b ±.0.5	0.44
TS (%)	4	$26.80^{a} \pm 0.42$	$15.36^{d}\pm1.1$	$17.90^{\circ} \pm 0.53$	$19.26^{b} \pm 0.50$	0.95
` '	8	$29.17^{a}\pm0.34$	$16.33^{d} \pm .0.24$	$25.25^{\circ} \pm 0.36$	$26.72^{b} \pm 0.62$	0.54

Means in the same row with different letters are significantly different ($p \le 0.05$). SI: Serum iron, SF: Serum ferritin, TIBC: Total iron binding capacity, TS: Transferrin saturation.