

**Table 1** Baseline characteristics in whole sample and categorized by gender

<b>Variable</b>	<b>Total (n=16)</b>	<b>Men (n=6)</b>	<b>Women (n=10)</b>	<b><i>p</i></b>
<b>Age (years)</b>	25.94±3.02	25.50±2.35	26.20±3.46	0.669
<b>Weight (kg)</b>	68.25±12.92	81.97±6.15	60.02±7.52	<0.001
<b>BMI (kg/m<sup>2</sup>)</b>	23.99±3.05	26.42±1.95	22.54±2.68	0.008
<b>Waist/hip ratio</b>	0.86± 0.07	0.93±0.04	0.81±0.05	<0.001
<b>Body fat mass (kg)</b>	16.94±5.10	17.37±3.82	16.68±5.92	0.804
<b>Body fat free mass (kg)</b>	51.31±11.07	64.60±4.38	43.34±2.29	<0.001
<b>Systolic pressure (mmHg)</b>	102.31±9.27	103.33±12.11	101.43±6.90	0.729
<b>Diastolic pressure (mmHg)</b>	67.69±8.57	68.33±11.69	67.14±5.67	0.815

Data are shown as mean ± standard deviation. *p* value: Comparison between men and women baseline characteristics. *p*<0.05 was considered significant.

*BMI*, Body Mass Index

**Table 2** Nutritional composition of the three assessed types of jams per 100g

Nutritional features	HS	LS	LSA	<i>P</i>	<i>P</i>	<i>P</i>
	Mean ± SD	Mean ± SD	Mean ± SD	HS-LS	HS-LSA	LS-LSA
<b>Energy (kcal/100g)</b>	185.9±8.6	21.2±3.7	26.2±4.7	<0.05	<0.05	ns
<b>Carbohydrates (g/100g)</b>	46.0±2.1	4.2±0.8	5.1±0.9	<0.05	<0.05	ns
<b>Sugars (g/100g)</b>	41.8±1.6	2.6±0.1	2.7±0.1	<0.05	<0.05	ns
- Fructose (g/100g)	12.8±2.2	<1.3	1.3±0.1	nc	<0.05	nc
- Glucose (g/100g)	12.7±2.1	<1.3	1.4±0.1	nc	<0.05	nc
- Sucrose (g/100g)	16.4±5.7	<0.5	<0.5	nc	nc	nc
<b>Sucralose (mg/100g)</b>	nd	252.9±8.6	281.8±9.9	nc	nc	ns
<b>Total fibre (g/100g)</b>	0.5±0.1	1.12±0.2	1.64±0.2	ns	<0.05	ns
Soluble Fibre (g/100g)	<0.5	0.71±0.01	0.65±0.01	nc	nc	<0.05
<b>Free polyphenols (µmol catechin/100g)</b>	480.4±32.2	369.0±64.8	839.8±43.3	ns	<0.05	<0.05

Data expressed as mean ± SD, (three samples for three different batches). *p* <0.05 between jams was considered significant.

*HS* high-sugar jam, *LS* low-sugar jam, *LSA* low-sugar with antioxidant extract jam, *nc* non-calculable, *nd* non-detectable, *ns* non-significant.

**Table 3** Variation of postprandial lipid profile after 2 h of eating each type of jam

	Jam	Time (minutes)					<i>p</i>		
		0	30	60	90	120	Jam	Time	Jam × Time
<b>Total-c (mg/dL)</b>	LSA	191.13±23.62 <sup>a</sup>	181.75±23.61 <sup>b</sup>	181.88±22.54 <sup>b</sup>	182.06±21.52 <sup>ab</sup>	182.00±24.97 <sup>ab</sup>	0.849	<0.001	0.913
	LS	194.31±35.16 <sup>a</sup>	181.94±33.70 <sup>b</sup>	185.94±37.15 <sup>b</sup>	186.75±36.41 <sup>b</sup>	188.19±34.46 <sup>ab</sup>			
	HS	197.00±56.95 <sup>a</sup>	184.13±49.91 <sup>b</sup>	186.06±45.96 <sup>b</sup>	184.19±36.11 <sup>ab</sup>	184.88±35.13 <sup>ab</sup>			
<b>HDL-c (mg/dL)</b>	LSA	63.84±15.72 <sup>a</sup>	60.54±14.75 <sup>b</sup>	60.52±15.58 <sup>b</sup>	60.14±14.22 <sup>b</sup>	61.24±13.86 <sup>ab</sup>	0.606	<0.001	0.455
	LS	64.91±17.73 <sup>a</sup>	61.51±16.80 <sup>b</sup>	62.71±17.13 <sup>ab</sup>	64.05±18.62 <sup>ab</sup>	64.24±17.77 <sup>ab</sup>			
	HS	66.29±26.98 <sup>a</sup>	61.41±22.37 <sup>b</sup>	62.41±23.26 <sup>ab</sup>	60.66±17.99 <sup>ab</sup>	61.41±17.50 <sup>ab</sup>			
<b>LDL-c (mg/dL)</b>	LSA	108.33±21.06 <sup>a</sup>	105.72±21.14 <sup>a</sup>	105.89±20.66 <sup>a</sup>	106.83±21.22 <sup>a</sup>	105.46±22.55 <sup>a</sup>	0.987	0.005	0.799
	LS	109.44±28.43 <sup>a</sup>	104.46±28.29 <sup>b</sup>	107.26±29.42 <sup>ab</sup>	106.84±28.94 <sup>ab</sup>	108.05±28.82 <sup>ab</sup>			
	HS	109.56±34.23 <sup>a</sup>	105.66±33.15 <sup>a</sup>	106.82±28.28 <sup>a</sup>	107.46±27.61 <sup>a</sup>	107.29±27.83 <sup>a</sup>			
<b>TG (mg/dL)</b>	LSA	94.81±28.26 <sup>a</sup>	77.44±26.74 <sup>b</sup>	77.31±27.92 <sup>b</sup>	75.44±28.54 <sup>b</sup>	76.50±28.89 <sup>b</sup>	0.284	<0.001	0.748
	LS	99.81±35.58 <sup>a</sup>	79.88±31.25 <sup>b</sup>	79.88±31.51 <sup>b</sup>	79.31±30.11 <sup>b</sup>	79.50±29.21 <sup>b</sup>			
	HS	105.75±44.61 <sup>a</sup>	85.25±34.14 <sup>b</sup>	84.19±36.60 <sup>b</sup>	80.31±31.51 <sup>b</sup>	80.88±34.28 <sup>b</sup>			

Data are reported as mean ± SD ( $n = 16$ ). Effect of jam, time and Jam × time was analyzed with repeated measures ANOVA.

Values in a row with different superscript letters (a, b) are significantly different,  $p < 0.05$ , by Bonferroni post hoc test.

No were differences between jams at different time points

*Total-c* total cholesterol, *HDL-c* high-density cholesterol, *LDL-c* low-density cholesterol, *TG* triglycerides, *LSA* low-sugar including antioxidant jam, *LS* low-sugar jam, *HS* high-sugar jam

**Table 4** Variation of postprandial antioxidant status after 2 hours of eating each type of jam

	Jam	Time (minutes)					<i>p</i>		
		0	30	60	90	120	Jam	Time	Jam × Time
<b>MDA (<math>\mu</math>M)</b>	LSA	1.10±0.51 <sup>a</sup>	1.03±0.47 <sup>a</sup>	1.04±0.51 <sup>a</sup>	0.98±0.50 <sup>a</sup>	0.99±0.51 <sup>a</sup>			
	LS	1.05±0.41 <sup>a</sup>	1.00±0.45 <sup>a</sup>	1.03±0.45 <sup>a</sup>	0.98±0.40 <sup>a</sup>	1.02±0.47 <sup>a</sup>			
	HS	1.12±0.47 <sup>a</sup>	1.11±0.40 <sup>a</sup>	1.01±0.41 <sup>a</sup>	1.05±0.45 <sup>a</sup>	0.97±0.44 <sup>a</sup>	0.850	0.003	0.703
<b>GPx (nmol/min/mL)</b>	LSA	52.44±22.82 <sup>a</sup>	52.60±24.38 <sup>a</sup>	53.84±18.43 <sup>a</sup>	60.93±24.66 <sup>a</sup>	62.39±22.61 <sup>a</sup>			
	LS	54.16±28.49 <sup>a</sup>	58.42±29.45 <sup>a</sup>	59.51±27.56 <sup>a</sup>	57.13±26.73 <sup>a</sup>	58.62±26.91 <sup>a</sup>			
	HS	57.10±29.05 <sup>a</sup>	53.56±29.27 <sup>a</sup>	61.70±28.41 <sup>a</sup>	58.34±33.10 <sup>a</sup>	62.10±32.58 <sup>a</sup>	0.912	0.067	0.450
<b>Uric acid (mg/dL)</b>	LSA	5.15±1.21 <sup>a</sup>	5.18±1.19 <sup>a</sup>	5.11±1.21 <sup>a</sup>	5.06±1.22 <sup>a</sup>	5.02±1.25 <sup>a</sup>			
	LS	5.12±1.02 <sup>a</sup>	5.13±1.03 <sup>a</sup>	5.14±0.94 <sup>a</sup>	5.14±0.99 <sup>a</sup>	5.08±0.99 <sup>a</sup>			
	HS	5.36±0.85 <sup>a</sup>	5.35±0.81 <sup>a</sup>	5.37±0.82 <sup>a</sup>	5.27±0.82 <sup>a</sup>	5.21±0.82 <sup>a</sup>	0.450	0.032	0.740
<b>TAC (mmol/L)</b>	LSA	1.07±0.48 <sup>a</sup>	1.11±0.49 <sup>a</sup>	1.04±0.49 <sup>a</sup>	1.16±0.53 <sup>a</sup>	1.04±0.63 <sup>a</sup>			
	LS	1.06±0.50 <sup>a</sup>	1.16±0.68 <sup>a</sup>	1.39±0.60 <sup>b</sup>	1.20±0.55 <sup>a</sup>	1.14±0.48 <sup>a</sup>			
	HS	1.12±0.45 <sup>a</sup>	0.99±0.54 <sup>a</sup>	1.06±0.50 <sup>a</sup>	1.14±0.56 <sup>a</sup>	1.27±0.54 <sup>a</sup>	0.591	0.832	0.404

Data are reported as mean  $\pm$  SD ( $n = 16$ ). Effect of jam, time and Jam  $\times$  time was analyzed with repeated measures ANOVA.

Values in a row with different superscript letters (a, b) are significantly different,  $p < 0.05$ , by Bonferroni post hoc test.

*MDA* malondialdehyde, *GPx* glutathione peroxidase, *TAC* total antioxidant capacity, *LSA* low-sugar including antioxidant jam, *LS* low-sugar jam, *HS* high-sugar jam