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Curves I & II		
Variable	Impact of Curves	
Body Fat	↓ (1.5 – 2%)	
Waist & Hip	↓ (2-3")	
Resting HR	↓ (3.4%)	
Resting SBP	↓ (3.2%)	
Resting DBP	↓ (4%)	
1 RM Bench Press	↑ <b>(9%)</b>	
1 RM Leg Press	↑ <b>(11%)</b>	
BP Endurance	↑ <b>(22%)</b>	
LP Endurance	↑ <b>(23%)</b>	
Statistically significant time effects (p<0.05).		

Curves I & II	
Variable	Impact of Curves
Maximal Oxygen Uptake	↑ <b>(8%)</b>
Total Cholesterol	↓ (5% @ 10W)
Triglycerides	↓ (7%)
Glucose	↓ (3%)
Leptin*	↓ (18%)
Fasting Insulin*	↓ (19%)
Insulin Sensitivity*	↑ <b>(19%)</b>
Statistically significant time effects (p<0.05). * Curves II	

Curves I & II	
Variable	Impact of Curves
Appetite	↓ (9%)
Hunger	↓ (8%)
Feeling of Fullness	↑ (5%)
Energy	↑ <b>(40%)</b>
Quality of Diet	↑ <b>(73%)</b>
Physical Functioning*	↑ <b>(10%)</b>
Physical Limitations*	↓ (28%)
General Health*	↑ (6%)
Statistically significant time effects (p<0.05). * Curves II	

Variable	Impact of Curves
Vitality*	↑ (15%)
Limitations Due to Emotional Factors*	↓ (20%)
Mental Health*	↑ (7%)
Appearance Evaluation*	↑ <b>(28%)</b>
Body Area Satisfaction*	↑ <b>(19%)</b>
Overweight Preoccupation*	↑ <b>(10%)</b>
Self-Classified Weight*	↑ <b>(9%)</b>

















































### **Curves Osteoarthritis**

- Curves fitness & weight loss program promotes weight loss, improves fitness, and increases functional capacity in women with OA
- Curves JCT Support supplementation may have some therapeutic benefit on reducing pain





### **Energy Expenditure Analysis** 33 sedentary subjects - 53 ± 7 yrs – 193 ± 32 lbs; - 64.5 ± 3 in - 1.8 ± 0.28 L/min VO2max (5.9 METS) – 151 ± 15 max HR Subjects performed the Curves 30-min workout 2 time Exercise VO2 and CO2 measurements obtained using a CosMed K4b portable metabolic measurement system Metabolic cost, energy ٠ expenditure, and CHO/Fat oxidation determined



## Heart Rate Analysis

- 78 subjects
  - 53.6 ± 7 yrs
  - 192 ± 30 lbs;
  - 43.5 ± 5 % BF
  - 66 ± 9 Supine RHR
  - 151 ± 17 max HR
- Subjects performed the Curves 30-min workout on two occasions
- HR determined from Polar HR monitors
- Max HR obtained during maximal treadmill GXT
- HR observed during workout compared to percentage of max HR





### **Heart Rate Analysis**

- Mean HR 119±15 bpm
- 79% max HR ([Ex HR / Max HR] x 100)
- 63% of Heart Rate Reserve ([Ex HR – RHR] / [Max HR – RHR] x 100)
- Biomechanical studies indicate that exercise intensity ranges from 61% - 73% of 1RM with good reliability (r=0.71 to r=0.87)
- Curves exercise intensity meets ACSM & NSCA guidelines







Curves











![](_page_24_Figure_0.jpeg)

![](_page_24_Figure_1.jpeg)

### Metabolism Study Observations

- Dieting decreased body weight, body water, fat mass, fat free mass, REE, and appetite hormones (leptin, ghrelin, etc.)
- Increasing energy intake up to 2,600 kcals/d did not promote weight regain
- It may take 7 or more days for REE to fully rebound without exercise

![](_page_25_Picture_4.jpeg)

![](_page_25_Picture_5.jpeg)

![](_page_25_Picture_6.jpeg)

### **Ongoing & Planned Studies**

- Curves in High Risk Populations (hypertension, diabetes, elderly)
- Effects of Using New "Smart" Equipment on Fitness Gains from Curves
- Effects of Curves and different diets on gene expression
- Exercise Intensity & Energy Expenditure of Highly Trained Women Using Curves
- Web-based Study

Lurves

![](_page_26_Picture_6.jpeg)

![](_page_26_Picture_7.jpeg)

# Curves is Taking Care of Business!

The most extensively studied and scientifically validated exercise & weight loss program in the industry...<u>period</u>!

![](_page_27_Picture_0.jpeg)

![](_page_27_Picture_1.jpeg)