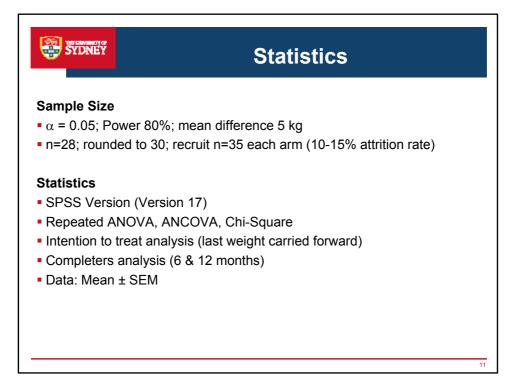
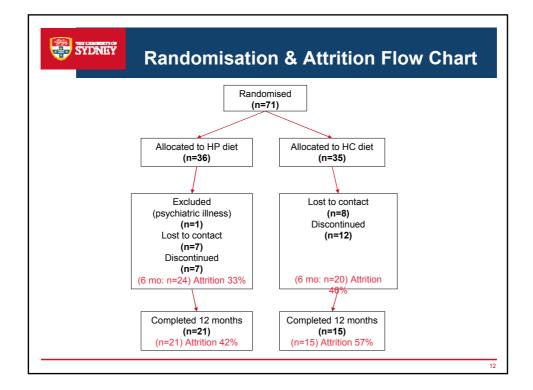


Nutrient	HP Diet	HC Diet
Energy (kJ)	5615	5602
Protein (g)	107 (32% of E)	67 (20% of E)
Carbohydrate (g)	138 (41% of E)	191 (58% of E
Sugars (g)	73	83
GI/GL	46/61	52/93
Dietary fibre (g)	23	24
Total fat (g)	38 (25% of E)	32 (21% of E
Saturated fat (g)	11	10
Cholesterol (mg)	298	87

Nutrient	EAR/AI	HP Diet	HC Diet
Thiamin (mg)	0.9	1.6	1.8
Riboflavin (mg)	0.9	2.5	2.5
Niacin Equiv (mg)	11	47	32
Vitamin C (mg)	30	156	160
Total Folate (µg)	320	332	355
Vitamin A Equiv (µg)	500	1058	1307
Sodium (mg)	460-920	2186	1940
Potassium (mg)	2800	3554	3096
Magnesium (mg)	255	318	268
Calcium (mg)	840	908	877
Phosphorus (mg)	580	1725	1282
Iron (mg)	8.0	12.2	9.9
Zinc (mg)	6.5	11.7	7.6

SYDNEY	Study Diets				
Food Group	Units/day	1 unit exchange			
Cereal	1	40 g high fibre low GI breakfast cereal			
Bread	3	1 slice wholegrain bread			
Rice and pasta	HP: 0 HC: 1.75	120 g cooked rice or pasta			
Lean meat	HP: 3 (1 at lunch; 2 at dinner) HC: 1	HP: 100 g raw lean meat or 2 eggs HC: 80 g raw lean meat			
Dairy	2	250 mL skim milk			
Fruit	2	150 g fresh or canned			
Vegetables	2.5	1 cup cooked or salad			
Fats and oils	3	5 g canola/olive oil or margarine			
Alcohol and treats	2 units/week	150 mL wine or 430 kJ treat			





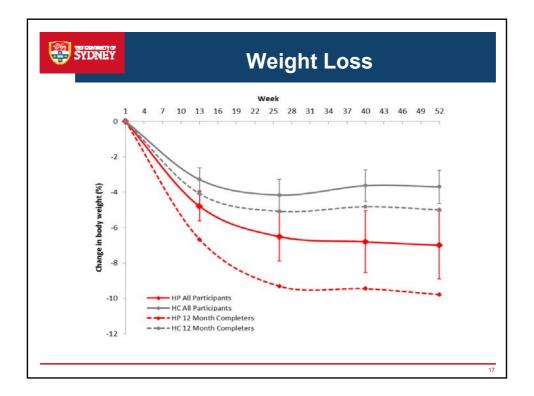
Parameter	HP	HC	P Value
Age (y)	22.4 ± 0.4	22.5 ± 0.4	0.82
Weight (kg)	95.2 ± 2.0	94.3 ± 2.5	0.78
BMI (kgm ⁻²)	34.1 ± 0.7	33.8 ± 0.8	0.75
Waist (cm)	95.7 ± 1.7	94.6 ± 1.8	0.63
laist: International	Diabetes Federatior	n Guidelines.	

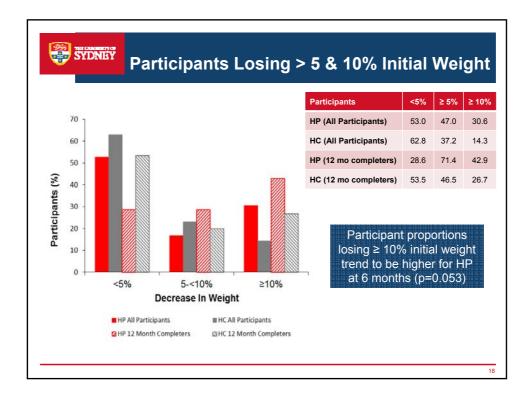
		· Fat Loss (All Pari	ticipa	
	All Par	ticipants	ipants P Value		
	HP (n=36)	HC (n=35)	Diet	D*T	
% Loss Initial Weight					
6 months	-6.5 ± 1.4	-4.3 ± 0.9	0.16	0.18	
12 months	-7.0 ± 1.9	-3.8 ± 1.0			
Wt Loss (kg)					
6 months	-6.3 ± 1.3	-3.9 ± 0.8	0.34	0.15	
12 months	-6.9 ± 1.8	-3.5 ± 0.9			
∆ BMI (kgm-²)					
6 months	-2.2 ± 0.5	-1.4 ± 0.3	0.78	0.13	
12 months	-2.5 ± 0.7	-1.2 ± 0.3			
∆ Waist (cm)					
6 months	-5.5 ± 1.0	-2.7 ± 0.7	0.61	0.03	
12 months	-7.8 ± 2.7	-2.4 ± 0.7			
Δ Lean Mass					
6 months	-0.6 ± 0.3	-0.4 ± 0.3	0.96	0.77	
12 months	-0.6 ± 0.4	-0.3 ± 0.2			
∆ Fat Mass					
6 months	-5.5 ± 1.3	-2.1 ± 0.7	0.06	0.046	
12 months	-5.9 ± 1.7	-2.2 ± 0.7			

& Waist Loss (Completers)

	6 Month C			alue		Completers	P-V	
	HP (n=24)	HC (n=20)	Diet	D*T	HP (n=21)	HC (n=15)	Diet	D*T
% Loss Initial Wt 6 months	-9.3 ± 1.8	-5.1 ± 1.3	0.06	0.049	-8.8 ± 1.8	-5.6 ± 1.7	0.16	0.31
12 months					-9.8 ± 2.7	-4.6 ± 1.6		
Wt Loss (kg) 6 months	-8.9 ± 1.7	-4.6 ± 1.2	0.03	0.06	-8.5 ± 1.6	-5.1 ± 1.3	0.07	0.22
12 months					-9.6 ± 2.6	-4.1 ± 1.4		
∆ BMI (kgm ⁻²) 6 months 12 months	-3.2 ± 0.6	-1.6 ± 0.4	0.31	0.06	-3.1 ± 0.6 -3.5 ± 0.9	-1.7 ± 0.5 -1.4 ± 0.5	0.32	0.14
∆ Waist (cm) 6 months 12 months	-7.8±1.3	-3.7±1.0	0.30	0.12	-7.5 ± 1.3 -7.9 ± 1.8	-3.2 ± 0.9 -2.4 ± 0.8	0.36	0.10

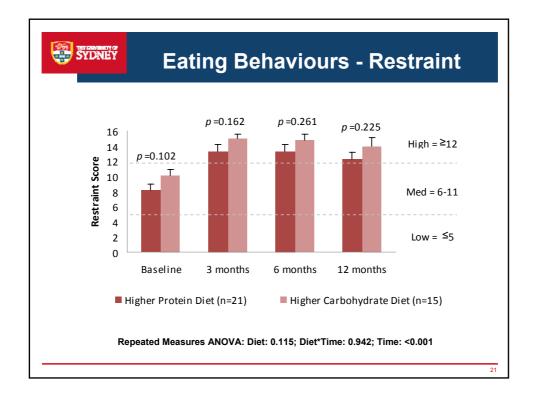
SYDNEY		Fat	Los	s (C	Compl	eters)		
	6 Month C HP (n=24)	ompleters HC (n=20)	P V Diet	alue D*T	12 month HP (n=21)	Completers HC (n=15)	P-V Diet	alue D*T
∆ Lean Mass 6 months 12 months	-0.9 ± 0.5	-0.7 ± 0.6	0.32	0.87	-1.0 ± 0.5 -0.9 ± 0.5	-0.5 ± 0.5 -0.3 ± 0.3	0.22	0.72
∆ Fat Mass 6 months 12 months	-8.0 ± 1.7	-3.4 ± 1.2	0.04	0.05	-7.5 ± 1.6 -8.3 ± 2.3	-4.0 ± 1.1 -4.2 ± 1.2	0.14	0.25
	Weights of Par		fore Tra Intak Veight (e		ce Energy I kgm ⁻²		
	HP	-	63.7			21.7		
	HP		64.4		2	2.2		
	HC		73.1		2	23.3		

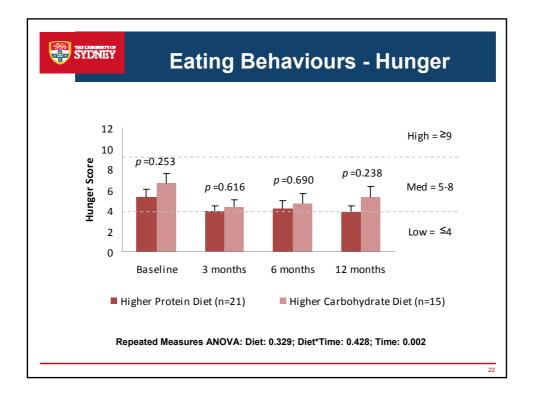


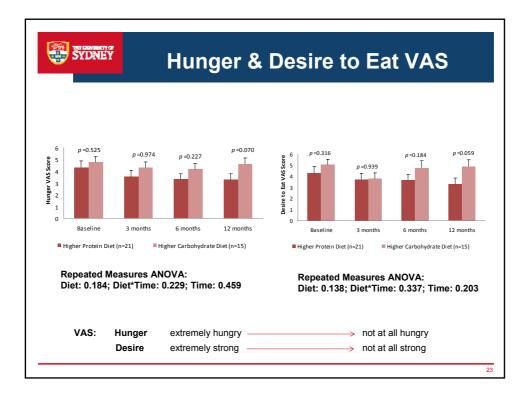


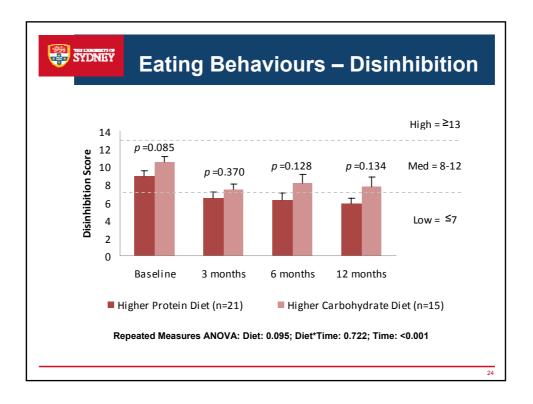
Dietary Intake (Completers)							
		Diet P V					
	HP (n=36)	HC (n=35)	Diet	D*T			
Energy kJ.d ⁻¹	5615	5602					
6 months	5865 ± 273	5073 ± 455	0.04	0.896			
12 months	5786 ± 275	4638 ± 283	0.006	0.744			
Protein (% of E)	32% of E	20% of E					
6 months	28.7 ± 0.9	20.6 ± 0.7	<0.001	0.0899			
12 months	28.3 ± 1.2	22.5 ± 1.1	<0.001	0.562			
Fat (% of E)	25% of E	21% of E					
6 months	26.8 ± 1.3	25.6 ±1.3	0196	0.307			
12 months	28.3 ± 1.3	25.4 ± 2.2	0.043	0.701			
Saturated Fat (% of E)	7% of E	6.6% of E					
6 months	9.7± 0.6	9.8 ± 0.8	0.213	0.481			
12 months	9.9 ± 0.7	8.7 ± 2.9	0.027	0.608			
Carbohydrate (% of E)	41% of E	58% of E					
6 months	44.6 ± 1.4	51.3 ± 1.3	< 0.001	0.208			
12 months	42.5 ± 1.1	50.8 ± 2.5	<0.001	0.598			
Fibre (gd-1)	23 g	24 g					
6 months	22.0 ± 3.4	18.6 ± 1.4	0.472	0.373			
12 months	18.7 ± 0.8	18.6 ± 1.8	0.683	0.698			

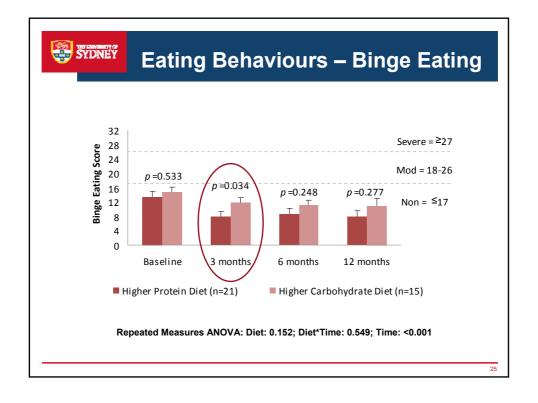
Ferritin (15-165µgL⁻¹)	Diet		P Value	
	HP	нс	Diet	D*1
6 month completers				
Ferritin at 6 months (µgL ⁻¹)	52.8 ± 6.2	45.9 ± 7.4		
Δ 6 months	14.4 ± 4.8	-3.2 ± 5.1	0.007	N/A
12 month completers				
Ferritin at 6 months (µgL-1)	53.8 ± 6.6	44.1 ± 6.2		
Ferritin at 12 months (µgL ⁻¹)	52.7 ± 6.6	38.0 ± 5.4		
Δ 6 months	14.0 ± 4.4	2.4 ± 5.0	0.02	0.3
∆ 12 months	13.0 ± 4.6	-3.7 ± 4.9	0.02	0.00
20 15 0 5 0 0			Ī	

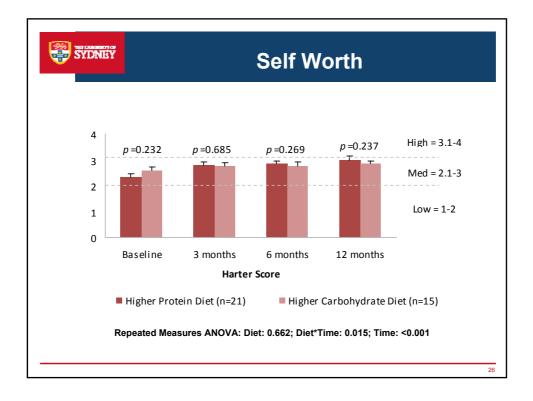


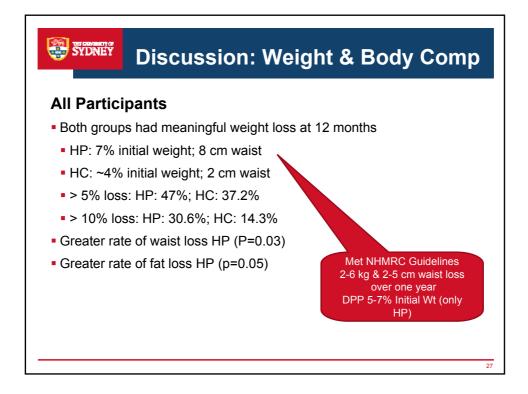


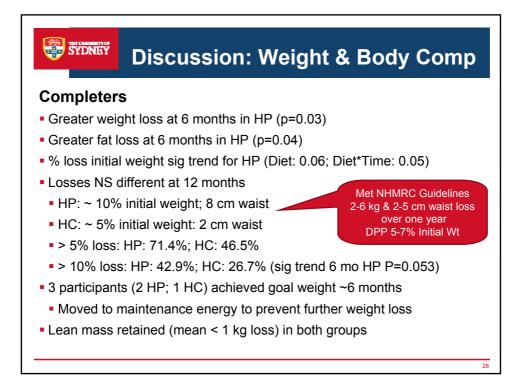












Diet, Micronutrients & Energy Expenditure

Diet Intake (completers)

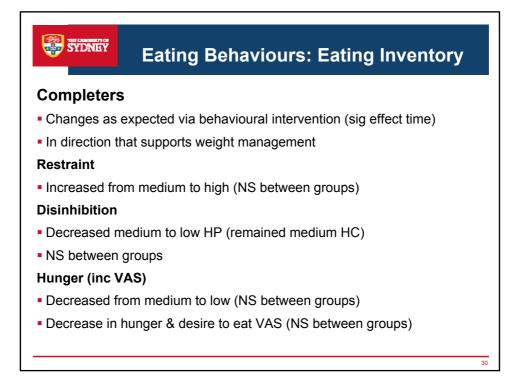
- Close to prescribed (supported by urea:creatinine ratio)
- Significant differences in protein & carbohydrate intake
- Reported energy intake lower in HC
 - Suspected under-reporting (higher disinhibition?)
- Iron was a limiting nutrient

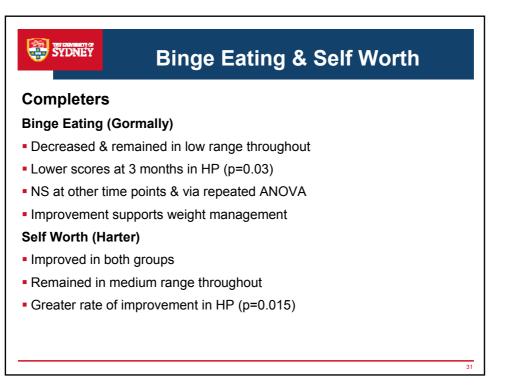
Micronutrient Status (completers)

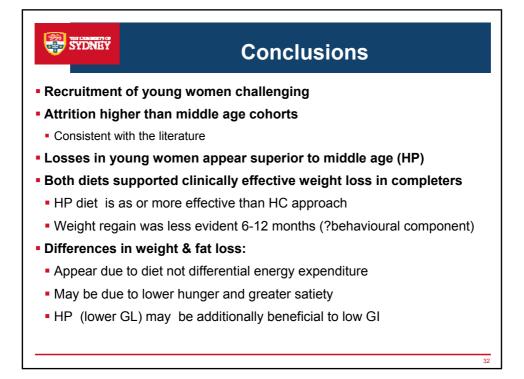
- Ferritin level better maintained HP red meat diet
- NS zinc status

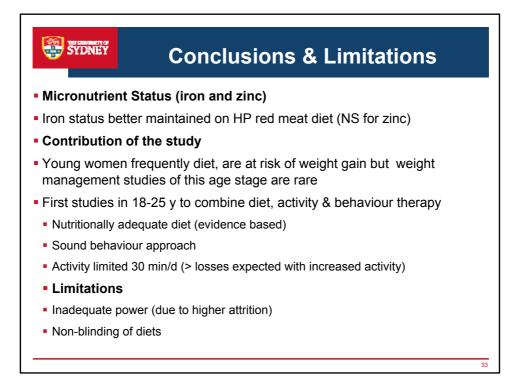
Energy Expenditure (completers)

- NS difference in energy expenditure between groups (p=0.67; 0.74)
- Main weight loss effects diet related

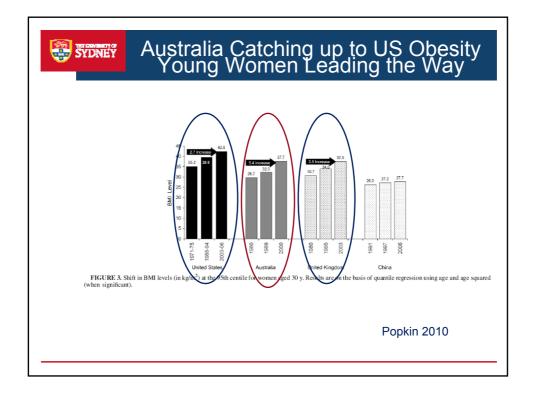












DNEY	Energy Expenditure							
	C	Diet	P Value					
	HP	HC	Diet	D*T				
All participants								
EE (MJd ⁻¹)								
Baseline	17.03 ± 0.52	16.63 ± 0.55	0.64	0.48				
3 months	16.87 ± 0.58	16.83 ± 0.60						
6 months	16.62 ± 0.69	16.89 ± 0.61						
12 months	16.29 ± 0.85	16.67 ± 0.61						
6 month completers								
EE (MJd ⁻¹)								
Baseline	17.33 ± 0.55	16.56 ± 0.73	0.67	0.64				
3 months	17.23 ± 0.67	16.64 ± 0.74						
6 months	16.89 ± 0.85	16.74 ± 0.76						
12 month completers								
EE (MJd ⁻¹)								
Baseline	17.28 ± 0.56	16.72 ± 0.88	0.74	0.07				
3 months	17.43 ± 0.73	17.07 ± 0.88	0.74	0.97				
6 months	17.00 ± 0.87	16.35 ± 0.75						
12 months	16.50 ± 1.17	15.92 ± 0.72						