



## ONLINE ABSTRACT SUBMISSION FOR ICO2014

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Submit your abstract to the New Investigator Award

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Abstract Title (max 200 char):

Assessment Of Total Energy Expenditure And Self-reporting Accuracy Using Doubly-labelled Water In Severely Obese Pregnant Women In Scotland, UK: A Pilot Study

Abstract text (max 1500 char):

Little is known regarding total energy expenditure (TEE) during obese pregnancy. This exploratory study aimed to measure this, as well as to assess the validity of self-reported energy intake (EI) and activity energy expenditure (AEE), in severely obese ( $\text{BMI} \geq 40 \text{ kg/m}^2$ ) pregnant women using doubly-labelled water (DLW). Preliminary data were provided by five subjects (two completed DLW during both early and late pregnancy). Urine samples were collected at baseline, on days 1, 5, 10, and 14, and analyzed by using mass spectrometry. EI and AEE were assessed using self-administered questionnaires. Mean gestational duration: 21.8 weeks (early pregnancy) and 31.3 weeks (late pregnancy). There was a trend for mean TEE to be slightly reduced in late pregnancy (Table 1). Paired data showed that late pregnancy TEE was reduced in Subject 1, but increased in Subject 2. All subjects under-reported their EI by 32-76%, while half of them over-reported their AEE. There was potential variability in TEE of severely obese pregnant women, suggesting different individual metabolic response to pregnancy. DLW also appears useful for exploring the validity of self-reported EI and AEE in this population. This work was funded by Tommy's The Baby Charity (UK).

Subject	TEE (kcal/day)	EI (kcal/day)	AEE (kcal/day)
<u>Early Pregnancy</u>			
1	3405	2060	2163
2	2724	1411	4987
3	3604	2160	4538
4	3324	812	2616
Mean (SD)	3264 (379)	1611 (628)	3576(1395)
<u>Late Pregnancy</u>			
1	3082	2143	4093
2	3517	1862	4652
5	2768	2215	842
Mean (SD)	3122 (376)	2073 (186)	3196 (2057)

## References

## Attachment for Abstract Awards

## Track &amp; Session Selection

15 Track 2: Perspectives on energy balance

Presentation:

Oral (or Poster if not accepted as an Oral)

Abstract Fee	16.00
Payment submitted	16.00
Balance	0.00