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The influence of the menstrual cycle on exercise performance and stable isotopic tracer measures of fat metabolism

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ABBREVIATIONS

β-HAD	beta-3-hydroxyacyl-CoA dehydrogenase
AMPK	AMP-activated protein kinase
ANOVA	analysis of variance
a_r	acetate correction factor
BCOAD	branched-chain 2-oxoacid dehydrogenase
BMI	body mass index
C-1	carbon-1 position
C-2	carbon-2 position
CHO	carbohydrate
CK	creatine kinase
CO_2	carbon dioxide
$*CO_2$	labelled carbon dioxide
$^{13}CO_2$	carbon-13 labelled carbon dioxide
CPT I	carnitine palmitoyltransferase I
CV	coefficien t of variation
E	oestrogen
ECO_2	$^{13}CO_2$ enrichment
ECO_{2bgrd}	background $^{13}CO_2$ enrichment
ECO_{2Sa}	sample $^{13}CO_2$ enrichment
EE	energy expenditure

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EF	early follicular
E-fold	magnitude of increase in oestrogen over EF phase values
EL	early luteal
E/P	oestrogen to progesterone ratio
Ep	plasma enrichment
F	infusion rate
FABPpm	plasma membrane bound fatty acid binding protein
FAT/CD36	fatty acid translocase
FFA	free fatty acid
FP	follicular phase
FSH	follicle stimulating hormone
GCMS	gas chromatography-mass spectrometry
GH	growth hormone
GHRH	growth hormone releasing hormone
GLC	gas liquid chromatography
GLUT4	glucose transporter
GnRH	gonadotropin-releasing factor
HPLC	high performance liquid chromatography
HR	heart rate
HSA	human serum albumin
HSL	hormone sensitive lipase
IMTG	intramuscular triacylglycerol

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IRMS	isotope ratio mass spectrometry
LCFA	long chain fatty acid
LF	late follicular
LH	luteinising hormone
LL	late luteal
LP	luteal phase
LPL	lipoprotein lipase
MC	menstrual cycle
MCR	metabolic clearance rate
MCT	medium chain triacylglycerol
MPA	medoxyprogesterone acetate
MF	mid-follicular
ML	mid-luteal
n	sample size
N_2	nitrogen
Na^+	sodium
$NaH^{13}CO_3$	carbon-13 labelled sodium bicarbonate
NH_3	ammonia
NOLD	non-oxidative leucine disposal
P-fold	magnitude of increase in progesterone over EF phase values
pV	effective volume of distribution
Ra	rate of appearance

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Ra_{est}	estimation of maximal endogenous FFA Ra
Rd	rate of disappearance
RER	respiratory exchange ratio
r_{ref}	isotopic ratio of reference gas
r_{sa}	isotopic ratio of sample gas
RQ	respiratory quoitent
SD	standard deviation
t_1	first time point
t_2	second time point
TCA	tricarboxylic acid cycle
TCAI	tricarboxylic acid cycle intermediate
TEE	total energy expenditure
tFFA	total free fatty acids
TG-FFA	triacylglycerol-free fatty acid cycling
VAS	visual analogue scale
VCO_2	carbon dioxide production
V_E	minute ventilation
Ve-Eq	ventilatory equivalent
VLDL-TG	very low density lipoprotein-triacylglycerol
VO_2	oxygen consumption
VO_2max	maximal aerobic capacity
VO_2peak	peak aerobic capacity