

Supplemental Appendix S  
List of International Atomic Energy Agency (IAEA)  
Studies with Inclusion/Exclusion

Database Rows	First author	Year	Country	Use	Participant description	Study Burden	Medical Conditions	stud_n	Remove	Notes
1039-1054	Ainslie	2002	UK		Strenuous "hill hiking", mean EE = 21 MJ/d	3	1	52	1	
5994-6001	Anderson	2017	UK		Pro-soccer, in-season, mean EE = 3560 kcal/d	3	1	112	1	
2733-3040	Arab	2011	US	All available data	Convenience sample, # of exclusion criteria based on medical condition	2	2	78	0	
265-274	Blaak	1992	Netherlands	All available data	10-year-old boys with obesity; ex intervention	3	2	18	0	
1655-2035 Intermingled with Cooper	Blanc	2004	US	All available data	Health ABC Study, 70-79 y; minimal exclusion criteria	1	2	73	0	
1234-1263	Bonomi	2010	Netherlands	All available data	Middle-aged adults	1	1	62	0	
1452-1543	Bornhorst	2014	Spain/Belgium	All available data	Convenience sample, 6-7 y	1	1	68	0	
483-494	Bouten	1996	Netherlands		Anorexia nervosa	1	1/3	33	1	
7648-7697	Brage	2015	UK	All available data	Convenience sample	1	1	129	0	
390-395	Branth	1996	Sweden		Sailing around the world, off coast, mean EE=19.3 MJ/d	3	1	29	1	
5072-5174	Buchowski	Unpublished	US	All available data	Convenience sample	1	1	99	0	
5072-5174	Buchowski	Unpublished	US	All available data	Convenience sample	1	1	100	0	
2573-2732	Burger	2013	US	All available data	Adolescents, repeated meas. MRI	2	1	77	0	
5175-5275	Butte	2014	US	All available data	Pre-schoolers, 1-y follow-up	1	1	101	0	
5276-5338	Butte	2016	US	All available data	Pre-schoolers, 1-y follow-up	1	1	101	0	Remove IND_ID=4873, Age 25, Sex=F due to genetic disease. (Health code not "H")
1306-1360	Camps	2013	Netherlands		VLCD diet and long-term maintenance; some exclusion criteria	4	1	65	1	
4240-4251	Casper	1991	US	Healthy subjects data only (Health status=H)	Anorexia nervosa	1	1	86	2	

123-137	Christopher	2019	Ecuador		Horticulturalists	1	1	6	1	
3041-3096	Colbert	2011	US	All available data	Older adults; explicit exclusion criteria including thyroid meds, b-blockers, steroids, wt loss supplements, diabetes, pacemaker or defibrillator	1	2	79	0	
1655-2035 intermingled with Blanc	Cooper	2013	US	All available data	Health ABC, >80 y; minimal exclusion criteria	1	2	74	0	row above duplicated since included 2 studies 73, 74
7282-7432	Davies	1989	UK	All available data	Early infancy	1	1	126	0	
575-731	de Bruin	1998	Netherlands	All available data	Infants; est energy requirements in breastfed v. formula-fed	1	1	38	0	Missing age, sex, BMI.
1636-1654	Donjacour	2013	Netherlands		Narcoleptics and controls	1	1/3	72	1	
6765-6788	Dugas	2009	South Africa		Convenience sample	1	1	119	1	
1264-1293	Dutman	2011	Netherlands	All available data	Pre-schoolers	1	1	63	0	
4985-5003	Ebbeling	2012	US	All available data	Weight maintenance following wt loss; DLW at baseline and during diet intervention	4	1	96	0	
6490-6764	Ebersole	2008	Nigeria/US	US data only (ISO=USA)	Random sample women - can use US data	1	1	118	2	
775-781	Ekelund	2000	Sweden	All available data	Adolescent athletes, preseason & off season	2	1	41	0	
900-926	Ekelund	2001	Sweden	All available data	Pre-pubescent kids	1	1	48	0	
275-284	Emons	1992	Netherlands	All available data	Pre-pubescent kids	1	1	19	0	
5344-5442	Entringer	Unpublished	US	All available data	Convenience sample	1	1	102	0	
732-755	Fogelholm	1998	Finland	All available data	Convenience sample - overweight women, 12 month weight loss intervention	4	1	39	0	
7101-7226	Frisard	2007	US	All available data	Louisiana Healthy Aging Study - 60-74 y	1	2	123	0	
1166-1175	Fudge	2006	Kenya		Elite Kenyan endurance runners	1	1	58	1	
5339-5343	Gandhi	2018	US	All available data	Pregnancy, twins, repeated measures	2	1	101	0	

4222-4233	Gillingham	2013	US	Healthy subjects data only (Health status=H)	LCFA Oxidation disorder with matched controls	3	1	84	2	
790-819	Goris	2000	Netherlands	All available data	Weight loss with baseline measure of TEE	3	1	43	0	
927-984	Goris	2001	Netherlands	All available data	reporting intake	1	1	49	0	
138-177	Gurven	2016	Peru		Amazonian horticulturalists	1	1	7	1	
544-553	Heijligenberg	1997	Netherlands		HIV+ and matched controls	1	1/3	36	1	
1087-1097	Hoos	2003	Netherlands	All available data	Pre-pubescent kids	1	1	54	0	
7227-7268	Johannsen	2019		All available data				124	0	
1123-1129	Joosen	2005	Netherlands	All available data	Convenience sample - women, diet intervention > 2 mo	4	1	56	0	
1130-1165	Joosen	2005	Netherlands	All available data	TEE in young adult twins	1	1	57	0	
1294-1305	Jorgensen	2012	Netherlands		Parkinson's disease, repeated measures	2	3	64	1	
396-415	Kempen	1995	Netherlands	All available data	Weight loss with baseline measure of TEE	3	1	30	0	
7433-7480	Kriengsinyos	Unpublished	Thailand					127	1	
4089-4221	Lampe	2017	US	All available data	WHI sample, 2-wk intervention	3	2	83	0	
1055-1086	Larsson	2002	Sweden	All available data	Adolescent vegan, omnivores	1	1	53	0	
5032-5071	LeBoeuf	2014	US	All available data	Convenience sample	2	1	98	0	
4285-4305	Luke	1996	US	Healthy subjects data only (Health status=H)	Kids with Down syndrome plus controls Can use controls	1	1	91	2	
6205-6489	Luke	2011	Ghn, RSA, Sey, Jam		Randomly selected sample -	1	1	117	1	
6097-6178	Martin	2012	US	All available data	Convenience sample: overweight & obese adults	1	2	115	0	
7269-7281	Matsiko	2020	Rwanda/Netherlands	Dutch data only (ISO=NLD)	TEE of lactating women	1	1	125	2	
985-1025	McCloskey	2001	Ireland		CF patients	1	1/3	50	1	

6179-6204	Medin	2017	Norway	All available data	Convenience sample; diet validation	1	1	116	0	
246-248	Meijer	1991	Netherlands	All available data	Baseline measure prior to training for sedentary adults	4	1	14	0	
285-305	Meijer	1992	Netherlands	All available data	Convenience sample	1	1	20	0	
5988-5993	Morehen	2016	UK		Professional rugby players	1	1	111	1	
6789-6958 Intermingled with Most 2020	Most	2019	US	Follow-up measurements on same subject with identical IND_ID (P2=2nd trimester; P3=3rd trimester; L=postpartum)	Pregnancy; Black n=34; white n=32	1	1	120	2	
6789-6958 Intermingled with Most 2020	Most	2020	US	Follow-up measurements on same subject with identical IND_ID (P2=2nd trimester; P3=3rd trimester; L=postpartum)	Pregnancy; Early n=54; Late n=54	1	1	120	2	
3168-3673	Neuhouser	2008	US	All available data	WHI sample	2	2	81	0	
5004-5031	Nicklas	2017	US	All available data	Pre-schoolers	1	1	97	0	
5874-5929	Nielsen	2011	UK	All available data	Breastfed infants	1	1	108	0	
25-54	Ojiambo	2013	Kenya		Pre-pubescent kids	1	1	2	1	
3097-3167	Orcholski	2015	Ghn, RSA, Sey, Jam & US	All available data	Randomly selected sample - can use US data	1	1	80	0	
416-474	Pannemans	1995	Netherlands	All available data	Elderly in "good health" plus young adults	3	1	31	0	
845-874	Persson	2000	Netherlands	All available data	Geriatric pts in nursing homes; number of exclusion criteria	1	2	45	1	
756-774	Philippaerts	1999	Belgium	All available data	Convenience sample - men	1	1	40	0	

1176-1193	Pietilainen	2008	Finland	All available data	Adolescents	1	1	59	0	
1098-1122	Plasqui	2004	Netherlands	All available data	Convenience sample - young adults	2	1	55	0	
71-103	Pontzer	2015	Tanzania		Hunter-gatherers	1	1	4	1	
104-122	Pontzer	2018	Tanzania		Hunter-gatherers	1	1	5	1	
178-184	Pontzer	Unpublished	US	All available data	Convenience sample	1	1	8	0	
3674-4088	Prentice	2011	US	All available data	WHI sample	2	2	82	0	
1372-1451	Rabinovich	2013	UK		COPD patients	1	3	67	1	
6002-6052	Ramuth	2020	Mauritius		Pubescent children	1	1	113	1	
4548-4984	Redman	2014	US	All available data	Healthy, nonobese or slightly OW BMI 22 to <28;willing to participate in 2-y caloric restriction study	4	2	95	0	
6959-7022	Redman	2009	US	All available data		4	2	121	0	
4279-4284	Riumallo	1989	Chile		Underweight adults	4	1	90	1	
1630-1635	Rosenkilde	2015	Denmark	All available data	14-day cycling trip, older men, TEE at baseline	2	1	71	0	
875-893	Rothenberg	2000	Sweden	All available data	90+ y; healthy living "quiet life"	1	1	46	0	
4234-4239	Schoeller	1987	US	All available data	Convenience sample; methods pub	1	1	85	0	
4252-4255	Schoeller	1982	US	All available data	Convenience sample	1	1	87	0	
4256-4258	Schoeller	1984	US	All available data	Convenience sample; methods	1	1	88	0	
4259-4278	Schoeller	1988	US	Healthy subjects data only (Health status=H)	Prader-Willi. Can use controls	1	1	89	2	
4306-4336	Schoeller	Unpublished	US	All available data	baseline for men's wt loss - never finished	3	2	92	0	
4337-4366	Schoeller	1997	US	All available data	Convenience sample, repeated measures	2	1	93	0	
554-574	Schuit	1997	Netherlands	All available data	Elderly; number of exclusion criteria	2	2	37	0	
240-245	Schulz	1989	Netherlands	All available data	Convenience sample	1	1	13	0	

7481-7647	Silva	2017	Portugal/US	This set of study contained repeated studies. Please use just the first study in the analysis.	Range of athletes in-season	2	1	128	2	
357-364	Sjodin	1994	Sweden		National cross-country ski team	1	1	25	1	
1-24	Speakman	Unpub-lished	Morocco		Pre-pubescent kids	1	1	1	1	
55-70	Speakman	Unpub-lished	China		men	1	1	3	1	
2036-2123	Stice	2011	US	All available data	Convenience sample - young adults	1	2	75	0	
2124-2572	Subar	2003	US	All available data	OPEN study	2	2	76	0	
7023-7100	Tam	2016	US		1-year post gastric bypass	4	1	122	1	
1194-1217	Tanskanen	2009	Finland		Conscripts; TEE at baseline, start of compulsory training	3	1	60	1	
185-201	Thurber	2019	US		Extreme marathons - RunAcrossUSA	3	1	9	1	
5758-5845	Tudor-Locke	2012	US	All available data	convenience sample	1	1	106	0	
6053-6096	Urlacher	2019	Ecuador		Pre-pubescent kids	1	1	114	1	
1544-1579	Valenti	2016	Netherlands	All available data	Older adults; some general medical exclusions	1	2	69	0	
371-389	van den Berg-Emons	1995	Netherlands	Healthy subjects data only (Health status=H)	Pre-pubescent kids with cerebral palsy	1	1/3	27	2	
371-389	van den Berg-Emons	1995	Netherlands	Healthy subjects data only (Health status=H)	Pre-pubescent kids with cerebral palsy	1	1/3	28	0	row duplicated above since included 2 studies 27,28
1361-1371	van der Kuip	2007	Netherlands		Critically ill children	1	3	66	1	
532-543	Van Etten	1997	Netherlands	All available data	Convenience sample - sedentary men; 18-wk weight-training program	3	1	35	0	
782-789	van Gemert	2000	Netherlands		Morbidly obese	4	2	42	1	
820-844	van Mil	2000	Netherlands		Children with Prader-Willi syndrome	1	1/3	44	1	

475-482	Velthuis-te Wieriki	1995	Netherlands	All available data	Weight loss intervention with baseline measure of TEE	4	1	32	0	
347-356	Verboeket-Van de Venne	1993	Netherlands	All available data	Convenience sample - men; dietary pattern intervention	3	1	24	0	
1026-1038	Verbunt	2001	Netherlands	All available data	Adults with chronic lower back pain	1	2	51	0	
5647-5757	Watanabe	2019	Japan	All available data	Japanese elderly	1	1	105	0	
5846-5873	Wells	1997	UK	All available data	Late infancy	1	1	107	0	
5930-5971	Wells	1998	UK	All available data	Infants	1	1	109	0	
202-230	Westerterp	1988	Netherlands	All available data	Convenience sample - adults; low activity vs high (amateur cyclists)	1	1	10	0	
231-239	Westerterp	1986	Netherlands		Tour de France	2	1	11	1	
231-239	Westerterp	1986	Netherlands		Tour de France	2	1	12	1	row above duplicated since included 2 studies 11,12
249-251	Westerterp	1991	Netherlands		Convenience sample - young adults; subset of anorexics (n=3) and morbidly obese (n=6)	1	1	15	1	
252-259	Westerterp	1991	Netherlands		Pre-term infants	1	3	16	1	
260-264	Westerterp	1991	Netherlands		Vertical banded gastroplasty, morbidly obese	3	2	17	1	
306-312	Westerterp	1992	Netherlands		Mt. Everest, repeated measures; hypobaric chamber	3	1	21	1	
313-325	Westerterp	1992	Netherlands	All available data	Convenience sample prior and during half-marathon training	4	1	22	0	
326-346	Westerterp	1992	Netherlands	All available data	Convenience sample - older adults Diet Q validation	1	1	23	0	
365-370	Westerterp	1994	Bolivia		High altitude - TEE measured at 6542 m in Bolivia	1	1	26	1	
495-531	Westerterp	1996	Netherlands		Diet study - TEE measured only after 6 mo diet intervention	4	1	34	1	



894-899	Westerterp	2000	Netherlands		Mt. Everest simulation	3	1	47	1	
1218-1233	Westerterp	2009	Netherlands		High-intensity military training	3	1	61	1	
1580-1629	Westerterp	Unpub- lished	Germany	All available data				70	0	
5972-5987	Wilson	2018	UK		Jockeys - mean TEEs ~ 8-13 MJ/d	1	1	110	1	
5443-5598	Wong	1999	US	All available data	Pubertal kids	1	1	103	0	
5599-5646	Yamada	2018	Japan	All available data	Older adults; excluded meds affecting EE, eg, b-blockers	1	1	104	1	
4367-4547	Zinkel	2016	US	All available data	Pre-pubertal kids, repeated measures	2	1	94	0	