Trial name	**CALERIE 2**
Dataset name	**ISOMETRA (Isometrics)**
Description	Isometric / Isokinetic Knee Extension and Flexion measurements from CRF, flattened to 1 record per DEIDNUM / VISIT. (The CRF dataset has 20 records per DEIDNUM / VISIT, 1 for each measure, with values for each leg.) Includes all original measurements and derived values, eg, mean of repeated measurements for each leg, mean of each measurement for both legs, etc.
Comments on data structure	1 record / DEIDNUM/ VISIT
Population	All randomized subjects, as well as some subjects who started baseline but dropped out before randomization
Visits	Baseline Visits 4-7, Month 12, Month 24 VISIT codes
Source data files	CRF/ISOMETRC, DATEHDR, ANALDTA/SUBJECT1, CLWTVIS,DXAA
Final sort order	DEIDNUM VISIT

Variable name	LABEL	Source variables	C/N ?	Definition	Accepted values/ Format
DEIDNUM	Subject Number	DEIDNUM	C		
PAGENUM	CRF page number	ISOMETRC.PAGEID	N		
VISIT	Visit	PAGENUM	N	Study Visit, based on CRF page (See Appendix)	VISFMT
SUBVISIT	Sub-Visit	PAGENUM	N	Study Sub-visit, based on CRF page (See Appendix)	SVISFMT
ISODTM	Date/time of Isometrics	DATEHDR.STUDYTM	DTM		Datetime
ISOCRF	Isometrics performed	ISODTM	N	=1 if RIGHTLEG or LEFTLEG is non-missing for any record for that DEIDNUM / VISIT else = 0	
ISONDRSN	Reason Isometrics not performed	STUDYND	N	1=Participant refused 2=Clinician unable to obtain 3=Insufficient time 4=Instrument failure 5=Not required	TUND
RKIP	Recent injury or pain -right knee	ISOMETRC.RKIP	N		
LKIP	Recent injury or pain -left knee	ISOMETRC.LKIP	N		
	The following 40 variables (KE60PTR – IKF3L) are directly from the CRF				
KE60PTR	60’/s right knee extension peak torque	ISOMETRC.GRAVEFF,	N	60°/s knee extension peak torque, right leg	

Variable name	LABEL	Source variables	C/N ?	Definition	Accepted values/ Format
		ISOMETRC.RIGHTLEG		= RIGHTLEG if GRAVEFF=1	
KE60TWR	60º/s right knee extension total work		N	60°/s knee extension total work, right leg = RIGHTLEG if GRAVEFF=2	
KE60APR	60’/s right knee extension average power		N	60°/s right knee extension average power, right leg = RIGHTLEG if GRAVEFF=3	
KF60PTR	60’/s right knee flexion peak torque		N	60°/s knee flexion peak torque, right leg = RIGHTLEG if GRAVEFF=4	
KF60TWR	60’/s right knee flexion total work		N	60°/s knee flexion total work, right leg = RIGHTLEG if GRAVEFF=5	
KF60APR	60’/s right knee flexion average power		N	60°/s knee flexion average power, right leg = RIGHTLEG if GRAVEFF=6	
KE180PTR	180’/s right knee extension peak torque		N	180°/s knee extension peak torque, right leg = RIGHTLEG if GRAVEFF=7	
KE180TWR	180’/s right knee extension total work		N	180°/s knee extension total work, right leg = RIGHTLEG if GRAVEFF=8	
KE180APR	180’/s right knee ext. average power		N	180°/s knee extension average power, right leg = RIGHTLEG if GRAVEFF=9	
KE180WFR	180’/s right knee ext work fatigue index		N	180°/s knee extension work fatigue index, right leg = RIGHTLEG if GRAVEFF=10	
KF180PTR	180’/s right knee flexion peak torque		N	180°/s knee extension work fatigue index, right leg = RIGHTLEG if GRAVEFF=11	
KF180TWR	180’/s right knee flexion total work		N	180°/s knee flexion total work, right leg = RIGHTLEG if GRAVEFF=12	
KF180APR	180’/s right knee flexion average power		N	180°/s knee flexion average power, right leg = RIGHTLEG if GRAVEFF=13	
KF180WFR	180’/s right knee flex work fatigue ind.		N	180°/s knee flexion work fatigue index, right leg = RIGHTLEG if GRAVEFF=14	
IKE1R	Isometric right knee ext. peak torque 1		N	Isometric knee extension peak torque 1, right leg = RIGHTLEG if GRAVEFF=15	
IKE2R	Isometric right knee ext. peak torque 2		N	Isometric knee extension peak torque 2, right leg = RIGHTLEG if GRAVEFF=16	
IKE3R	Isometric right knee ext. peak torque 3		N	Isometric knee extension peak torque 3, right leg = RIGHTLEG if GRAVEFF=17	
IKF1R	Isometric right knee flex. peak torque 1		N	Isometric knee flexion peak torque 1, right leg = RIGHTLEG if GRAVEFF=18	
IKF2R	Isometric right knee flex. peak torque 2	ISOMETRC.GRAVEFF,	N	Isometric knee flexion peak torque 2, right leg	

Variable name	LABEL	Source variables	C/N ?	Definition	Accepted values/ Format
		ISOMETRC.RIGHTLEG		= RIGHTLEG if GRAVEFF=19	
IKF3R	Isometric right knee flex. peak torque 3		N	Isometric knee flexion peak torque 3, right leg = RIGHTLEG if GRAVEFF=20	
KE60PTL	60’/s left knee extension peak torque	ISOMETRC.GRAVEFF, ISOMETRC.LEFTLEG	N	60°/s knee extension peak torque, left leg = LEFTLEG if GRAVEFF=1	
KE60TWL	60’/s left knee extension total work		N	60°/s knee extension total work, left leg = LEFTLEG if GRAVEFF=2	
KE60APL	60’/s left knee extension average power		N	60°/s knee extension average power, left leg = LEFTLEG if GRAVEFF=3	
KF60PTL	60’/s left knee flexion peak torque		N	60°/s knee flexion peak torque, left leg = LEFTLEG if GRAVEFF=4	
KF60TWL	60’/s left knee flexion total work		N	60°/s knee flexion total work, left leg = LEFTLEG if GRAVEFF=5	
KF60APL	60’/s left knee flexion average power		N	60°/s knee flexion average power, left leg = LEFTLEG if GRAVEFF=6	
KE180PTL	180’/s left knee extension peak torque		N	180°/s knee extension peak torque, left leg = LEFTLEG if GRAVEFF=7	
KE180TWL	180’/s left knee extension total work		N	180°/s knee extension total work, left leg = LEFTLEG if GRAVEFF=8	
KE180APL	180’/s left knee extension average power		N	180°/s knee extension average power, left leg = LEFTLEG if GRAVEFF=9	
KE180WFL	180’/s left knee ext. work fatigue index		N	180°/s knee extension work fatigue index, left leg = LEFTLEG if GRAVEFF=10	
KF180PTL	180’/s left knee flexion peak torque		N	180°/s knee flexion peak torque, left leg = LEFTLEG if GRAVEFF=11	
KF180TWL	180’/s left knee flexion total work		N	180°/s knee flexion total work, left leg = LEFTLEG if GRAVEFF=12	
KF180APL	180’/s left knee flexion average power		N	180°/s knee flexion total work, left leg = LEFTLEG if GRAVEFF=13	
KF180WFL	180’/s left knee flex. work fatigue ind.		N	180°/s knee flexion work fatigue index, left leg = LEFTLEG if GRAVEFF=14	
IKE1L	Isometric left knee ext. peak torque 1		N	Isometric knee extension peak torque 1, left leg = LEFTLEG if GRAVEFF=15	
IKE2L	Isometric left knee ext. peak torque 2		N	Isometric knee extension peak torque 2, left leg = LEFTLEG if GRAVEFF=16	
IKE3L	Isometric left knee ext. peak torque 3		N	Isometric knee extension peak torque 3, left leg = LEFTLEG if GRAVEFF=17	

Variable name	LABEL	Source variables	C/N ?	Definition	Accepted values/ Format
IKF1L	Isometric left knee flex. peak torque 1			Isometric knee flexion peak torque 1, left leg = LEFTLEG if GRAVEFF=18	
IKF2L	Isometric left knee flex. peak torque 2			Isometric knee flexion peak torque 2, left leg = LEFTLEG if GRAVEFF=19	
IKF3L	Isometric left knee flex. peak torque 3			Isometric knee flexion peak torque 3, left leg = LEFTLEG if GRAVEFF=20	
	The following variables are derived from the raw variables.				
IKERMEAN	Mean peak torque iso. right knee ext.	IKE1R, IKE2R, IKE3R	N	Mean peak torque, isometric knee extension, right leg = average of IKE1R, IKE2R, IKE3R	
IKFRMEAN	Mean peak torque iso. right knee flex.	IKF1R, IKF2R, IKF3R	N	Mean peak torque, isometric knee flexion, right leg = average of IKF1R, IKF2R, IKF3R	
IKELMEAN	Mean peak torque iso. left knee ext.	IKE1L, IKE2L, IKE3L	N	Mean peak torque, isometric knee extension, left leg = average of IKE1L, IKE2L, IKE3L	
IKFLMEAN	Mean peak torque iso. left knee flex.,	IKF1L, IKF2L, IKF3L	N	Mean peak torque, isometric knee flexion, left leg = average of IKF1L, IKF2L IKF3L	
IKERMAX	Max peak torque iso. right knee ext.	IKE1R, IKE2R, IKE3R	N	Highest peak torque, isometric knee extension, right leg = max of IKE1R, IKE2R, IKE3R	
IKFRMAX	Max peak torque iso. right knee flex.	IKF1R, IKF2R, IKF3R	N	Highest peak torque, isometric knee flexion, right leg = max of IKF1R, IKF2R, IKF3R	
IKELMAX	Max peak torque iso. left knee ext.	IKE1L, IKE2L, IKE3L	N	Highest peak torque, isometric knee extension, left leg = max of IKE1L, IKE2L, IKE3L	
IKFLMAX	Max peak torque iso. left knee flex.	IKF1L, IKF2L, IKF3L	N	Highest peak torque, isometric knee flexion, left leg = max of IKF1L, IKF2L IKF3L	
IKERDIF	Isometric right knee ext. discrepancy	IKE1R, IKE2R, IKE3R	N	Discrepancy between two largest values of isometric knee extension, right leg =Absolute value of the difference between the two largest values of IKE1R, IKE2R, IKE3R	
IKFRDIF	Isometric right knee flex. discrepancy	IKF1R, IKF2R, IKF3R	N	Discrepancy between two largest values of isometric knee flexion, right leg =Absolute value of the difference between the two largest values of IKF1R, IKF2R, IKF3R	
IKELDIF	Isometric left knee ext. discrepancy	IKE1L, IKE2L, IKE3L	N	Discrepancy between two largest values of isometric knee extension, left leg =Absolute value of the difference between the two largest values of IKE1L, IKE2L, IKE3L	

Variable name	LABEL	Source variables	C/N ?	Definition	Accepted values/ Format
IKFLDIF	Isometric left knee flex. discrepancy	IKF1L, IKF2L, IKF3L	N	Discrepancy between two largest values of isometric knee flexion, left leg =Absolute value of the difference between the two largest values of IKF1L, IKF2L, IKF3L	
MLEGLEAN	Avg. left and right leg lean mass (kg)	DXAA.LLEGLEAN, DXAA.RLEGLEAN	N	Average of left and right leg lean mass (kg) = mean (LLEGLEAN, RLEGLEAN)	
KE60PTM	Avg. 60°/s knee extension peak torque	KE60PTR, KE60PTL	N	60°/sec knee extension, peak torque, average of both legs (N.m) = mean (KE60PTR, KE60PTL)	
KE60PTWT	60°/s knee ext. peak torque / body wt.	KE60PTM, MCLINWT	N	Average 60°/sec knee extension, peak torque, relative to body weight (N.m/kg) =KE60PTM / MCLINWT	
KE60PTLL	60°/s knee ext. peak torque / leg lean	KE60PTM, MLEGLEAN	N	Average 60°/sec knee extension, peak torque, relative to leg lean mass (N.m/kg) =KE60PTM / MLEGLEAN	
KE60TWM	Avg. 60°/s knee extension total work	KE60TWR, KE60TWL	N	60°/sec knee extension, total work, average of both legs (N.m) = mean (KE60TWR, KE60TWL)	
KE60APM	Avg. 60°/s knee extension average power	KE60APR, KE60APL	N	60°/sec knee extension, average power, average of both legs (watts) = mean (KE60APR, KE60APL)	
KF60PTM	Avg. 60°/s knee flexion peak torque	KF60PTR, KF60PTL	N	60°/sec knee flexion, peak torque, average of both legs (N.m) = mean (KF60PTR, KF60PTL)	
KF60PTWT	60°/s knee flex peak torque / body wt.	KF60PTM, MCLINWT	N	60°/sec knee flexion, peak torque, relative to body weight (N.m/kg) =KF60PTM / MCLINWT	
KF60PTLL	60°/s knee flex. peak torque / leg lean	KF60PTM, MLEGLEAN	N	60°/sec knee flexion, peak torque, relative to leg lean mass (N.m/kg) =KF60PTM / MLEGLEAN	
KF60TWM	Avg. 60°/s knee flexion total work	KF60TWR, KF60TWL	N	60°/sec knee flexion, total work, average of both legs (N.m) = mean (KF60TWR, KF60TWL)	
KF60APM	Avg. 60°/s knee flexion average power	KF60APR, KF60APL	N	60°/sec knee flexion, average power, average of both legs (watts) = mean (KF60APR, KF60APL)	

Variable name	LABEL	Source variables	C/N ?	Definition	Accepted values/ Format
KE180PTM	Avg. 180°/s knee extension peak torque	KE180PTR, KE180PTL	N	180°/sec knee extension, peak torque, average of both legs (N.m) = mean (KE180PTR, KE180PTL)	
KE180PTW	180°/s knee ext. peak torque / body wt.	KE180PTM, MCLINWT	N	180°/sec knee extension, peak torque, relative to body weight (N.m/kg) =KE180PTM / MCLINWT	
KE18PTLL	180°/s knee ext. peak torque / leg lean	KE180PTM, MLEGLEAN	N	180°/sec knee extension, peak torque, relative to leg lean mass (N.m/kg) =KE180PTM / MLEGLEAN	
KE180TWM	Avg. 180°/s knee extension, total work	KE180TWR, KE180TWL	N	180°/sec knee extension, total work, average of both legs (N.m) = mean (KE180TWR, KE180TWL)	
KE180APM	Avg. 180°/s knee extension average power	KE180APR, KE180APL	N	180°/sec knee extension, average power, average of both legs (watts) = mean (KE180APR, KE180APL)	
KE180WFI	Avg. 180°/s knee ext, work fatigue index	KE180WFR, KE180WFL	N	180°/sec knee extension, work fatigue index, average of both legs (%) = mean (KE180WFR, KE180WFL)	
KF180PTM	Avg. 180°/s knee flexion, peak torque	KF180PTR, KF180PTL	N	180°/sec knee flexion, peak torque, average of both legs (N.m) = mean (KF180PTR, KF180PTL)	
KF180PTW	180°/s knee flex. peak torque / body wt.	KF180PTM, MCLINWT	N	180°/sec knee flexion, peak torque, relative to body weight (N.m/kg) =KF180PTM / MCLINWT	
KF18PTLL	180°/s knee flex. peak torque / leg lean	KF180PTM, MLEGLEAN	N	180°/sec knee flexion, peak torque, relative to leg lean mass (N.m/kg) =KF180PTM / MLEGLEAN	
KF180TWM	Avg. 180°/s knee flexion total work	KF180TWR, KF180TWL	N	180°/sec knee flexion, total work, average of both legs (N.m) = mean (KF180TWR, KF180TWL)	
KF180APM	Avg. 180°/s knee flexion average power	KF180APR, KF180APL	N	180°/sec knee flexion, average power, average of both legs (watts) = mean (KF180APR, KF180APL)	

Variable name	LABEL	Source variables	C/N ?	Definition	Accepted values/ Format
KF180WFI	Avg. 180°/s knee flex work fatigue index	KF180WFR, KF180WFL	N	180°/sec knee flexion, work fatigue index, average of both legs (%) = mean (KF180WFR, KF180WFL)	
IKEPTMAX	Avg. iso. knee ext. max peak torque	IKERMAX, IKELMAX	N	Isometric knee extension, highest peak torque, average of both legs (N.m) =mean (IKERMAX, IKELMAX)	
IKEPT_WT	Iso knee ext max peak torque / body wt	IKEPTMAX, MCLINWT	N	Isometric knee extension, highest peak torque, relative to body weight (N.m/kg) = IKEPTMAX / MCLINWT	
IKEPT_LL	Iso knee ext max peak torque / leg lean	IKEPTMAX, MLEGLEAN	N	Isometric knee extension, highest peak torque, relative to leg lean mass (N.m/kg) = IKEPTMAX / MLEGLEAN	
IKFPTMAX	Avg. iso. knee flex. max peak torque	IKFRMAX, IKFLMAX	N	Isometric knee flexion, highest peak torque, average of both legs (N.m) =mean (IKFRMAX, IKFLMAX)	
IKFPT_WT	Iso knee flex max peak torque / body wt	IKFPTMAX, MCLINWT	N	Isometric knee flexion, highest peak torque, relative to body weight (N.m/kg) = IKFPTMAX / MCLINWT	
IKFPT_LL	Iso knee flex max peak torque / leg lean	IKFPTMAX, MLEGLEAN	N	Isometric knee flexion, highest peak torque, relative to leg lean mass (N.m/kg) = IKFPTMAX / MLEGLEAN	
SUMPT	Composite strength score peak torque	KE60PTM, KF60PTM, KE180PTM, KF180PTM, IKEPTMAX, IKFPTMAX	N	Composite strength score, absolute peak torque (N.m) = sum of KE60PTM, KF60PTM, KE180PTM, KF180PTM, IKEPTMAX, IKFPTMAX Missing if any component is missing	

Variable name	LABEL	Source variables	C/N ?	Definition	Accepted values/ Format
SUMPT_WT	Comp. strength score peak torque / body weight	KE60PTWT, KF60PTWT, KE180PTWT, KF180PTWT, IKEPT_WT, IKFPT_WT	N	Composite strength score, absolute peak torque relative to body weight (N.m/kg) =sum of KE60PTWT, KF60PTWT, KE180PTWT, KF180PTWT, IKEPT_WT, IKFPT_WT Missing if any component is missing	
SUMPT_LL	Comp strength score peak torque/leg lean	KE60PTLL, KF60PTLL, KE180PTLL, KF180PTLL, IKEPT_LL, IKFPT_LL	N	Composite strength score, absolute peak torque relative to leg lean mass (N.m/kg) =sum of KE60PTLL, KF60PTLL, KE180PTLL, KF180PTLL, IKEPT_LL, IKFPT_LL Missing if any component is missing	
WFIM	Average work fatigue index (%)	KE180WFI, KF180WFI	N	Average work fatigue index (%) = mean of KE180WFI, KF180WFI	