

## **Additional file 1: Supplemental Material**

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**Table S3. Actigraph average measure ICCs for outcome variables calculated on four non-dialysis days.**

<b>Wear time</b>	<b>&gt;4</b>	<b>&gt;5</b>	<b>&gt;6</b>	<b>&gt;7</b>	<b>&gt;8</b>	<b>&gt;9</b>	<b>&gt;10</b>
<b>Cases (n =)</b>	54	52	52	51	40	38	32
<b>Sedentary min/day</b>	0.83	0.81	0.81	0.82	0.85	0.85	0.84
<b>Sedentary %</b>	0.92	0.93	0.93	0.93	0.92	0.92	0.87
<b>Total PA min/day</b>	0.92	0.93	0.93	0.93	0.92	0.92	0.90
<b>Total PA %</b>	0.92	0.93	0.93	0.93	0.92	0.92	0.87
<b>MVPA min/day</b>	0.95	0.95	0.95	0.95	0.95	0.94	0.94
<b>MVPA %</b>	0.95	0.95	0.95	0.95	0.95	0.94	0.94
<b>Triax counts/day</b>	0.94	0.94	0.94	0.94	0.93	0.93	0.93
<b>Triax counts/min</b>	0.95	0.95	0.95	0.95	0.95	0.95	0.94
<b>Steps/day</b>	0.95	0.96	0.96	0.96	0.95	0.95	0.95
<b>Steps/min</b>	0.96	0.96	0.96	0.96	0.96	0.96	0.95

**Table S4. ActivPAL average measure ICCs for outcome variables calculated on three dialysis days.**

<b>Hours of wear</b>	<b>&gt;4</b>	<b>&gt;5</b>	<b>&gt;6</b>	<b>&gt;7</b>	<b>&gt;8</b>	<b>&gt;9</b>	<b>&gt;10</b>
<b>Cases (n =)</b>	55	55	52	51	51	49	44
<b>Sit/Lie min/day</b>	0.72	0.72	0.80	0.81	0.81	0.82	0.87
<b>Sit/Lie %</b>	0.94	0.94	0.94	0.94	0.94	0.94	0.94
<b>Stand min/day</b>	0.87	0.87	0.87	0.88	0.88	0.85	0.87
<b>Stand %</b>	0.94	0.94	0.94	0.94	0.94	0.94	0.94
<b>Steps/day</b>	0.90	0.90	0.92	0.92	0.92	0.91	0.91
<b>Steps/min</b>	0.91	0.91	0.91	0.91	0.91	0.91	0.91
<b>Transitions/day</b>	0.76	0.76	0.82	0.80	0.80	0.76	0.80
<b>Transitions/hr</b>	0.76	0.76	0.79	0.78	0.78	0.77	0.83
<b>EE/day</b>	0.78	0.78	0.87	0.88	0.88	0.87	0.92
<b>EE/min</b>	0.93	0.93	0.94	0.94	0.94	0.93	0.95

**Table S5. ActivPAL average measure ICCs for outcome variables calculated on four non-dialysis days.**

<b>Hours of wear</b>	<b>&gt;4</b>	<b>&gt;5</b>	<b>&gt;6</b>	<b>&gt;7</b>	<b>&gt;8</b>	<b>&gt;9</b>	<b>&gt;10</b>
<b>Cases (n =)</b>	47	45	43	43	37	34	24
<b>Sit/Lie mins</b>	0.84	0.82	0.84	0.84	0.80	0.81	0.77
<b>Sit/Lie %</b>	0.90	0.90	0.89	0.89	0.88	0.86	0.89
<b>Stand mins</b>	0.89	0.90	0.88	0.88	0.88	0.85	0.90
<b>Stand %</b>	0.90	0.90	0.89	0.89	0.88	0.86	0.89
<b>Steps/day</b>	0.92	0.93	0.93	0.93	0.92	0.91	0.92
<b>Steps/min</b>	0.93	0.93	0.93	0.93	0.92	0.92	0.91
<b>Transitions/day</b>	0.82	0.83	0.83	0.83	0.82	0.76	0.73
<b>Transitions/hr</b>	0.88	0.89	0.89	0.89	0.89	0.87	0.84
<b>EE/day</b>	0.70	0.79	0.81	0.81	0.81	0.75	0.83
<b>EE/min</b>	0.93	0.94	0.94	0.94	0.92	0.92	0.91

**Table S6. Computed minimum wear-time requirements for Actigraph outcomes normalised to daily wear on dialysis days.**

Minimum wear/day	Sedentary %			Total PA %			MVPA%			Steps/min			Triaxial counts/min			Sample size for S-B computation
	Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			
	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	
6h	0.67	1.15	2.58	0.67	1.15	2.58	0.66	1.12	2.53	0.38	0.64	1.45	0.52	0.89	2.01	62
7h	0.58	0.99	2.24	0.58	0.99	2.24	0.67	1.16	2.60	0.36	0.61	1.38	0.47	0.81	1.82	60
8h	0.57	0.98	2.21	0.57	0.98	2.21	0.66	1.12	2.53	0.35	0.60	1.35	0.47	0.80	1.80	57
9h	0.58	1.00	2.24	0.58	1.00	2.24	0.66	1.14	2.56	0.35	0.60	1.35	0.46	0.80	1.79	55
10h	0.56	0.96	2.16	0.56	0.96	2.16	0.66	1.14	2.56	0.35	0.59	1.33	0.45	0.77	1.73	53

**Table S7. Computed minimum wear-time requirements for Actigraph outcomes normalised to daily wear on non-dialysis days.**

Minimum wear/day	Sedentary time %			Total PA %			MVPA%			Steps/min			Triaxial counts/min			Sample size for S-B computation
	Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			
	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	
6h	0.70	1.21	2.72	0.70	1.21	2.72	0.54	0.93	2.09	0.41	0.71	1.59	0.45	0.77	1.74	52
7h	0.68	1.16	2.62	0.68	1.16	2.62	0.51	0.87	1.95	0.41	0.71	1.59	0.44	0.76	1.70	51
8h	0.79	1.35	3.05	0.79	1.35	3.05	0.52	0.89	2.00	0.50	0.85	1.91	0.51	0.87	1.97	40
9h	0.80	1.38	3.10	0.80	1.38	3.10	0.55	0.95	2.13	0.49	0.84	1.89	0.51	0.87	1.97	38
10h	1.15	1.97	4.43	1.15	1.97	4.43	0.56	0.97	2.18	0.51	0.87	1.97	0.58	0.99	2.23	32

**Table S8. Computed minimum wear-time requirements for ActivPAL outcomes normalised to daily wear on dialysis days.**

Minimum wear/day	Sit/lie time %			Stand time %			Transfers/hour			Steps/min			Energy MET/min			Sample size for S-B computation
	Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			
	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	
6h	0.47	0.80	1.80	0.47	0.80	1.80	1.61	2.76	6.20	0.67	1.15	2.59	0.49	0.83	1.88	52
7h	0.46	0.79	1.77	0.46	0.79	1.77	1.69	2.90	6.52	0.65	1.12	2.52	0.48	0.82	1.84	51
8h	0.46	0.79	1.77	0.46	0.79	1.77	1.69	2.90	6.52	0.65	1.12	2.52	0.48	0.82	1.84	51
9h	0.48	0.83	1.86	0.48	0.83	1.86	1.77	3.03	6.82	0.73	1.25	2.81	0.50	0.85	1.92	49
10h	0.42	0.72	1.62	0.42	0.72	1.62	1.68	2.88	6.49	0.71	1.21	2.72	0.41	0.70	1.57	44

**Table S9. Computed minimum wear-time requirements for ActivPAL outcomes normalised to daily wear on non-dialysis days.**

Minimum wear/day	Sit/lie time %			Stand time %			Transfers/hour			Steps/min			Energy MET/min			Sample size for S-B computation
	Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			
	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	
6h	1.12	1.93	4.34	1.12	1.93	4.34	1.20	2.06	4.63	0.70	1.19	2.68	0.49	0.83	1.88	52
7h	1.12	1.93	4.34	1.12	1.93	4.34	1.20	2.06	4.63	0.70	1.19	2.68	0.48	0.82	1.84	51
8h	1.33	2.27	5.12	1.33	2.27	5.12	1.18	2.03	4.57	0.79	1.35	3.05	0.48	0.82	1.84	51
9h	1.48	2.54	5.72	1.48	2.54	5.72	1.44	2.46	5.54	0.83	1.41	3.18	0.50	0.85	1.92	49
10h	1.16	1.99	4.48	1.16	1.99	4.48	1.83	3.14	7.06	0.87	1.50	3.37	0.41	0.70	1.57	44

**Table S10. Computed minimum wear-time requirements for Actigraph outcomes (not normalised to daily wear) on dialysis days.**

Minimum wear/day	Sedentary mins/day			Total PA mins/day			MVPA mins/day			Steps/day			Triaxial counts/day			Sample size for S-B computation
	Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			
	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	
6h	2.83	4.85	10.92	0.67	1.15	2.60	0.57	0.97	2.19	0.34	0.59	1.32	0.55	0.94	2.11	62
7h	2.14	3.66	8.24	0.66	1.12	2.53	0.58	1.00	2.25	0.34	0.58	1.31	0.53	0.91	2.05	60
8h	1.33	2.29	5.14	0.64	1.09	2.45	0.60	1.02	2.30	0.35	0.61	1.36	0.52	0.89	2.00	57
9h	1.47	2.51	5.66	0.64	1.10	2.47	0.61	1.05	2.35	0.35	0.61	1.37	0.51	0.88	1.98	55
10h	1.61	2.76	6.22	0.65	1.11	2.50	0.62	1.06	2.38	0.36	0.61	1.38	0.52	0.89	2.00	53

**Table S11. Computed minimum wear-time requirements for Actigraph outcomes (not normalised to daily wear) on non-dialysis days.**

Minimum wear/day	Sedentary mins/day			Total PA mins/day			MVPA mins/day			Steps/day			Triaxial counts/day			Sample size for S-B computation
	Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			
	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	
6h	2.12	3.63	8.17	0.71	1.22	2.75	0.54	0.93	2.08	0.38	0.65	1.45	0.54	0.93	2.10	52
7h	2.04	3.49	7.86	0.70	1.19	2.69	0.51	0.87	1.97	0.34	0.59	1.32	0.54	0.93	2.10	51
8h	1.59	2.72	6.12	0.83	1.43	3.21	0.53	0.90	2.03	0.34	0.58	1.31	0.68	1.17	2.63	40
9h	1.61	2.75	6.20	0.86	1.48	3.33	0.58	0.99	2.23	0.35	0.61	1.36	0.71	1.22	2.74	38
10h	1.75	3.01	6.76	1.00	1.71	3.84	0.57	0.97	2.18	0.35	0.61	1.37	0.73	1.26	2.83	32

**Table S12. Computed minimum wear-time requirements for ActivPAL outcomes (not normalised to daily wear) on dialysis days.**

	Sit/lie time mins/day			Stand time mins/day			Transfers/day			Steps/day			Energy METmin/day			Sample size for S-B computation
Minimum wear/day	Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			
	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	
6h	1.80	3.08	6.93	1.04	1.78	4.01	1.67	2.87	6.45	0.63	1.08	2.42	1.07	1.84	4.14	52
7h	1.62	2.77	6.23	1.00	1.71	3.86	1.80	3.09	6.95	0.59	1.02	2.29	0.95	1.62	3.65	51
8h	1.62	2.77	6.23	1.00	1.71	3.86	1.80	3.09	6.95	0.59	1.02	2.29	0.95	1.62	3.65	51
9h	1.59	2.72	6.11	1.19	2.04	4.59	2.03	3.48	7.82	0.69	1.17	2.64	1.04	1.78	4.00	49
10h	1.05	1.80	4.05	1.09	1.86	4.19	1.55	2.67	6.00	0.66	1.13	2.54	0.63	1.08	2.43	44

**Table S13. Computed minimum wear time requirements for ActivPAL outcomes (not normalised to daily wear) on non-dialysis days.**

	Sit/lie time mins/day			Stand time mins/day			Transfers/day			Steps/day			Energy METmin/day			Sample size for S-B computation
Minimum wear/day	Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			Wear days required for reliability level of:			
	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.9	
6h	1.82	3.12	7.03	1.22	2.08	4.69	1.97	3.38	7.60	0.74	1.26	2.84	2.15	3.69	8.31	52
7h	1.82	3.12	7.03	1.22	2.08	4.69	1.97	3.38	7.60	0.74	1.26	2.84	2.15	3.69	8.31	51
8h	2.38	4.07	9.16	1.26	2.16	4.86	1.99	3.41	7.67	0.81	1.39	3.13	2.24	3.85	8.66	51
9h	2.21	3.79	8.52	1.65	2.84	6.38	2.94	5.05	11.36	0.93	1.59	3.57	3.17	5.44	12.24	49
10h	2.81	4.82	10.84	1.04	1.78	4.01	3.41	5.85	13.17	0.85	1.46	3.28	1.96	3.36	7.55	44