Supplementary Material

All the patients annotated their activities in a diary during the study. The annotated activities can be seen in Table S1.

Table S1. Questionnaires from the patients during the 5 days recording

Patient	*Activity*	*Duration (min)*	*Day*	*Patient*	*Activity*	*Duration (min)*	*Day*	*Patient*	*Activity*	*Duration (min)*	*Day*
1	Exercise stress test	10	1	4	Exercise stress test	15	1	6	Exercise stress test	15	1
1	Walking	60	3	4	Cycling	35	2	6	Cycling	52	2
1	Walking	60	3	4	Walking	60	2	6	Cycling	29	2
1	Walking	45	4	4	Walking	60	2	6	Cycling	174	3
2	Exercise stress test	10	1	4	Walking	60	3	6	Cycling	140	4
2	Walking	60	2	4	Walking	60	3	6	Cycling	240	6
2	Cycling	60	3	4	Walking	60	3				
2	Walking	60	4	4	Walking	60	4				
2	Walking with dog	60	5	4	Walking	60	4				
2	Walking	60	6	4	Walking	60	5				
3	Exercise stress test	10	1	5	Exercise stress test	16	1				
3	Walking	60	1	5	Cycling	40	1				
3	Working in the garden	480	2	5	Fitness	60	2				
3	Working in the garden	400	3	5	Climbing stairs (150 steps)	5	5				
3	Walking	120	4	5	Fitness	60	6				

Figure S1 includes the SQI_{avg} results with the 6 patients. It is observed that the data remains stable in the interval between 0.7-0.8, which is an indicator of the good ECG coming from the vital signs patch. However, it is not included in the analyses because this SQI is the worst-performing in the QDB classification.

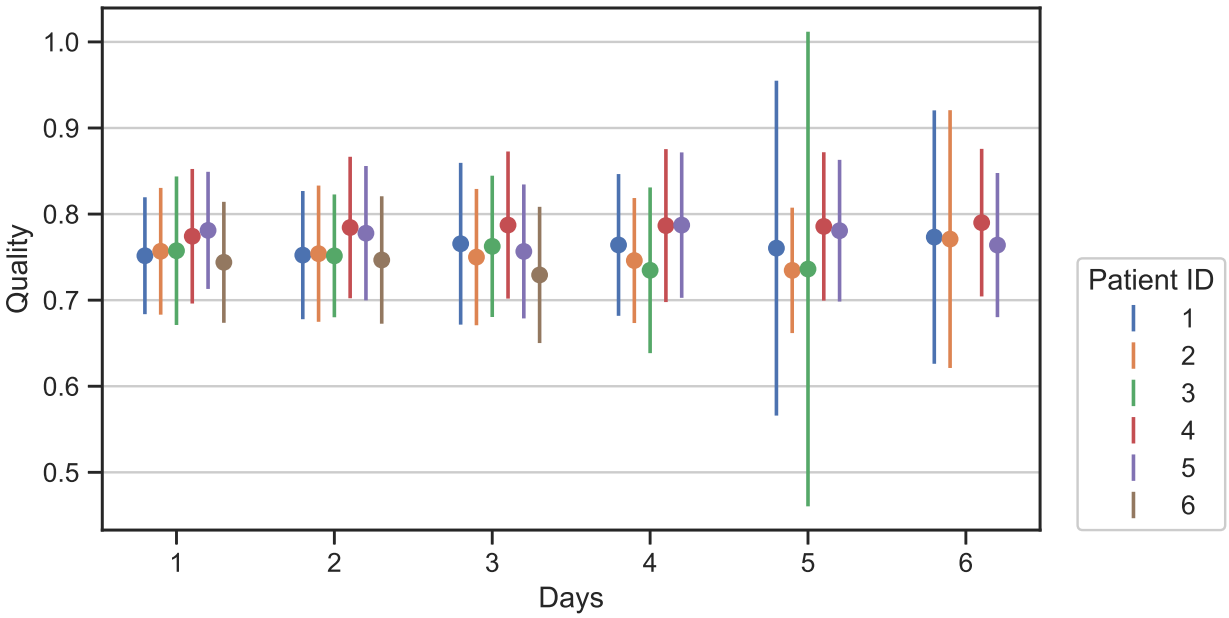

Figure S1. Data quality over time for all patients with SQI_{avg} .