

**SDC 1.** Confusion matrices for model predictions when using the back and wrist accelerometer.

		Predicted								Total	
		Sitting	Lying	Standing	DS	Walking	Running	Cycling	DM		
Observed	Adult	Sitting	<b>6710</b>	1	1166	176	0	0	1	-	8054
		Lying	2	<b>1442</b>	6	6	0	0	0	-	1456
		Standing	1140	4	<b>1659</b>	232	0	0	5	-	3040
		DS	93	1	287	<b>1952</b>	43	0	4	-	2380
		Walking	3	0	0	75	<b>1349</b>	0	3	-	1430
		Running	0	0	1	1	4	<b>609</b>	0	-	615
		Cycling	8	0	6	659	535	0	<b>56</b>	-	1264
	Child	Sitting	<b>8271</b>	4	42	174	29	0	1	9	8530
		Lying	39	<b>1669</b>	0	0	0	0	0	6	1714
		Standing	688	0	<b>68</b>	92	5	0	1	0	854
		DS	314	4	16	<b>815</b>	108	0	12	15	1284
		Walking	4	0	0	101	<b>1559</b>	3	5	43	1715
		Running	0	0	0	0	11	<b>62</b>	0	15	88
		Cycling	127	0	0	145	38	0	<b>123</b>	26	459
DM	99	21	0	92	195	3	4	<b>198</b>	612		

Note: Values represent the number of 5-second epochs correctly classified or misclassified; DS - Dynamic standing, DM - Dynamic movement; Bold values represent correct predictions.