

Appendix

The names of 40 actions categories in English and Chinese. Actions marked with * mean the action adopt standing posture and sitting posture, rest of them only adopt standing posture.

Table1. 40 action categories

0	1	2	3
跨步提膝 punching and knee lifting	原地踏步提膝 marking time and knee lifting	开合跳 jumping jack	蹲伏 squatting
4	5	6	7
前弓步 forward lunging	侧弓步 left lunging	体侧运动 left stretching	伸手跳 raising hand and jumping
8	9	10	11*
侧踢腿 left kicking	转身拍手 rotation clapping	交替前平举 front raising	拉臂力器 pulling chest expanders
12*	13*	14*	15*
直拳击打 Punching	手腕旋转 wrist circling	单哑铃前平举 single dumbbell raising	提肩 shoulder raising
16*	17*	18*	19*
肘部画圈 elbow circling	单臂哑铃推肩 dumbbell one-arm shoulder pressing	手臂画圈 arm circling	哑铃耸肩 dumbbell shrugging
20*	21*	22	23*
夹背 pinching back	头部逆时针画圈 head anticlockwise circling	肩外展运动 shoulder abduction	三角肌拉伸 deltoid muscle stretching
24	25*	26	27
直立体前屈 straight forward flexion	脊柱伸展 spinal stretching	哑铃侧弯 dumbbell side bend	站姿肘膝转体 standing opposite elbow-to-knee crunch
28	29*	30*	31
站姿转体 standing rotation	过头拉伸 overhead stretching	上背伸展 upper back stretching	膝贴胸拉伸 knee to chest
32	33	34	35
膝关节绕环 knee circling	交替提膝 alternate knee lifting	体前屈转体 bent over twist	跳绳 rope skipping
36	37	38	39
站立触脚趾 standing toe touches	腓肠肌拉伸 standing gastrocnemius calf	单腿侧跳 single-leg lateral hopping	高抬腿跳 High knees running

	Stretch		
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Table 2. Actions and persons in the second capture setting

Person ID	Action ID	Person ID	Action ID
NO.02	NO.10-NO.39	NO.03	NO.10-NO.39
NO.04	NO.10-NO.39	NO.06	NO.10-NO.39
NO.09	NO.10-NO.39	NO.35	NO.10-NO.39
NO.41	NO.11,12,13,14,15,16,17,18,19,20,21,23,25,29,30		
NO.53	NO.11,12,13,14,15,16,17,18,19,20,21,23,25,29,30		

Table 3. Actions and persons in the third capture setting

Person ID	Action ID	Person ID	Action ID
NO.19	NO.10-39	NO.20	NO.10-39
NO.42	NO.10-39		
Person ID		Action ID	
NO.43 44 45 46 47 48 49 50 51 52		*NO.11 12 13 14 15 16 17 18 19 20 21 23 25 29 30	
NO.56 59 62 65 68 71 74 77 80 83 86 89 92 95		NO.10 22 24 26 27 28 31 32 33 34	
NO.54 57 60 63 66 69 72 75 78 81 84 87 90 93 97		NO.10 22 24 26 27 35 36 37 38 39	
NO.55 58 61 64 67 70 73 76 79 82 85 88 91 94 97		NO.28 31 32 33 34 35 36 37 38 39	
NO.98 63 101 61 105		*NO.11 12 13 14 15 16 17 18 19 20	
NO.99 74 102 103 67		*NO.11 12 13 14 15 21 23 25 29 30	
NO.100 93 95 104 55		*NO.16 17 18 19 20 21 23 25 29 30	
NO.106 78 107 108 109		NO.11 12 13 14 15 16 17 18 19 20	
NO.110 111 112 113 114		NO.11 12 13 14 15 21 23 25 29 30	
NO.56 115 116 117 118		NO.16 17 18 19 20 21 23 25 29 30	