S 3. Table. Modified Downs and Black checklist. (Downs & Black, 1998)

Yes	Parti	No or		Comments
(1)	-			
	(1)	(0)		
(2)	(1)	(0)		
				1
		(1) ally (1)	(1)ally (1)N/A (0)II	(1) ally (1) N/A (0) I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I

bias, this question should be answered yes. If the distribution of the data									
(normal or not) is not									
	the question should be answ	wered yes.							
20. Was the VO_{2p}									
This item should be ra									
effort are explicitly s									
contain two of the following five minimum criteria: 1) respiratory exchange									
ratio (RER) of 1.05 or higher, 2) a concentration of lactate in blood ([La-]b)									
of 7 mmol/liter or greater, and 3) a subjective rating of perceived exertion (PPE) with a ROPG scale score of 15 or higher (4) no increase in VO2									
	(RPE) with a BORG scale score of 15 or higher, 4) no increase in VO2 despite further increases in intensity or 5) reaching a maximal heart rate								
		icted maximum (calculated							
		natively, the verification of							
		d in case a verification test							
was performed. Any	studies which did not rep	port on the verification of							
	maximal effort or which include criteria below the above described, should								
		e specifically noted in the							
comments box provid									
	- confounding (selection		1						
	rticipants in differen								
(trials and cohort	(trials and cohort studies) or were the cases and controls (case-								
control studies)									
	for all comparison groups								
same source. The qu	estion should be answere								
cohort and case control									
	included in the study.								
22. Were study participants in different intervention groups									
(trials and cohort studies) or were the cases and controls (case-									
control studies) re									
For a study which do									
were recruited, the qu									
23. Was the test o									
Studies, which state the									
should be answered y	es.								
Power									
27. Did the study	have sufficient power	r to detect a clinically							
important effect where the probability value for a difference									
being due to chance is less than 5%?									
0		tect differences based							
Sample sizes have been calculated to detect differences based on an effect size of 0.65 and an alpha level of 0.05.									
	Size of smallest								
	intervention								
	group								
A (60%)	<15	0							
B (70%)	15-17	1							
C (80%)	18-21	2							
D (90%)	>21	3							
	/ 41	5							

Downs, S. H., & Black, N. (1998). The feasibility of creating a checklist for the assessment of the methodological quality both of randomised and non-randomised studies of health care interventions. *J Epidemiol Community Health*, *52*(6), 377-384. Retrieved from <u>http://jech.bmj.com/content/jech/52/6/377.full.pdf</u>