

## Supplementary Table S2. PubMed Search Strategy

# 1	“pediatric obesity”[MeSH Terms]
# 2	“pediatric obesity”[All Fields]
# 3	#1 OR #2
# 4	“childhood obesity”[All Fields]
# 5	“obesity”[MESH Terms]
# 6	“obesity”[All Fields]
# 7	#5 OR #6
# 8	“child”[MESH Terms]
# 9	“child”[All Fields]
# 10	“children”[All Fields]
#11	#8 OR #9 OR #10
#12	#7 AND #11
#13	#3 OR #4 OR #12
# 14	“inflammation”[MeSH Terms]
# 15	“inflammation”[All Fields]
# 16	#14 OR #15
# 17	“inflammatory” [All Fields]
# 18	#16 OR #17
# 19	“biomarkers”[MeSH Terms]
# 20	“biomarkers”[All Fields]
# 21	“markers”[All Fields]
# 22	“marker” [All Fields]
# 23	#19 OR #20 OR #21 OR #22
# 24	#18 AND #23
# 25	“adiponectin”[MeSH Terms]
# 26	“adiponectin”[All Fields]
# 27	#25 OR #26
# 28	“leptin”[MeSH Terms]
# 29	“leptin”[All Fields]
# 30	#28 OR #29
# 31	“interleukin-6”[MeSH Terms]
# 32	“interleukin-6”[All Fields]
# 33	“interleukin 6”[All Fields]
# 34	“IL 6”[All Fields]
# 35	#31 OR #32 OR #33 OR #34
# 36	“c-reactive protein”[MeSH Terms]
# 37	“c-reactive protein”[All Fields]
# 38	“c reactive protein”[All Fields]
# 39	“crp”[All Fields]
# 40	#36 OR #37 OR #38 OR #39

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# 41	“tumor necrosis factor-alpha”[MeSH Terms]
# 42	“tumor necrosis factor-alpha”[All Fields]
# 43	“tumor necrosis factor alpha”[All Fields]
# 44	“tumor necrosis factor alpha”[All Fields]
# 45	“tnf alpha”[All Fields]
# 46	#41 OR #42 OR #43 OR #44 OR #45
# 47	#24 OR #27 OR #30 OR #35 OR #40 OR #46
# 48	“exercise”[MeSH Terms]
# 49	“exercise”[All Fields]
# 50	#48 OR #49
# 51	“sports”[MeSH Terms]
# 52	“sports”[All Fields]
# 53	“sport”[All Fields]
# 54	#51 OR #52 OR #53
# 55	“physical exercise”[All Fields]
# 56	“physical activity”[All Fields]
# 57	#50 OR #54 OR #55 OR #56
# 58	#13 AND #47 AND #57