

Appendix S1. Search strategy

Database	PICO	No	proposed search terms
PubMed/MEDLINE	Population	1	((((((((((child[Title/Abstract]) OR (Children[Title/Abstract])) OR (adolescence[Title/Abstract]) OR (adolescent[Title/Abstract]) OR (adolescents[Title/Abstract]) OR (teen*[Title/Abstract]) OR ("School Age Children"[Title/Abstract]) OR ("preschool children"[Title/Abstract]) OR (adolescent[MeSH Terms]) OR (child[MeSH Terms]) OR (child, preschool[MeSH Terms])))
	Index	2	(("mid upper arm circumference"[Title/Abstract]) OR (MUAC[Title/Abstract]))
	Comparator or Reference Standard	3	((((((((((((((((((BMI[Title/Abstract]) OR ("body mass index"[Title/Abstract]) OR ("weight to height"[Title/Abstract]) OR ("dual energy X-ray absorptiometry"[Title/Abstract]) OR ("bioelectrical impedance"[Title/Abstract]) OR ("air-displacement plethysmography"[Title/Abstract]) OR ("Skinfold Thickness"[Title/Abstract]) OR (Electric Impedance[Title/Abstract]) OR (Densitometry[Title/Abstract]) OR (hydrodensitometry[Title/Abstract]) OR (body mass index[MeSH Terms]) OR ("pediatric obesity/diagnosis"[MeSH Terms]) OR ("pediatric obesity/diagnosis"[MeSH Major Topic]) OR (Obesity/diagnosis[MeSH Major Topic]) OR ("overweight/diagnosis"[MeSH Major Topic]) OR ("overweight/diagnosis"[MeSH Terms])))
	Outcome	4	(((((obese[Title/Abstract]) OR (obesity[Title/Abstract]) OR (overweight[Title/Abstract]) OR ("over weight"[Title/Abstract]) OR ("elevated body mass index"[Title/Abstract])))
		6	#1 AND #2 AND #3 AND #4