_	hecklist for planning and critiquing vitamin D studies:
_	Did the study subjects receive at least 4,000-10,000 IU per day? If not, then the study likely used inadequate dosage to produce
	optimal physiologic effects.
1	Is the duration of the study at least 6-9 months? If not, then body stores of vitamin D were likely not replaced in time for clinical effect
	to occur. Daily supplementation with vitamin D requires 120 days (4 months) to reach plateau of serum 25-OH-vitamin D levels; therefore, to
	replenishment or "induction" phase of any clinical trial must have a duration of at least 4 months or—alternatively—use supranormal doses
	vitamin D3 in order to more rapidly achieve optimal serum levels and tissue saturation.
1	Did the study use vitamin D3 (cholecalciferol) rather than fungally-derived erogcalciferol? Ergocalciferol is not a human nutrien
	and it is more toxic and less effective than is cholecalciferol.
1	Was the product validated for potency? If not, then the intervention may have failed due to an erroneously produced or falsely labeled
	product.
	Were serum 25-OH-vitamin D levels measured? If not, the product potency and nutrient absorption were not ensured.
1	Did serum 25-OH-vitamin D levels enter the optimal range at least 2-6 months before the end of the study? If not, then the
	patients may have been vitamin D deficient for the entire duration of the study.
1	Were the patients deficient at the start of the study and then robustly replaced with vitamin D? If not, then
	"deficiency deficiency" is not a competent study design and intervention, nor is "replete replete." The appropriate intervention is to change
	deficiency to repletion.
1	Vitamin D supplementation should be stopped for roughly 20-30 days before serum testing because 25-hydroxyvitamin D3
	(calcidiol) has a half-life of 15 days. The goal with serum testing of 25-OH-vitamin D levels is to assess tissue saturation, not acute
	absorption. Testing vitamin D serum levels within a few days of vitamin D supplementation is more likely to reflect absorption and hepatic
	conversion rather than providing the more important and more accurate assessment of vitamin D tissue stores.

Vasquez A. How to Understand, Refute, and Plan Studies Using Vitamin D. Int J Hum Nutr Funct Med 2017 http://www.ichnfm.org/d