Blank Data Extraction Form and Quality Assessment Checklists (From the Current Report)

Vitamin D Data Abstraction Form

Should this article have been previously excluded based on the exclusion criteria?

Select an Answer ▼	
More than 20% of the population has a condition No outcome of interest Study design: Observational study of intermediate outcomes (cardiovascular and bone outcomes) Study design:SR/MA	
Study design other (please specify) Intervention: Other dietary supplements, not controlled for	
Clear Response	
Do you need another article to complete this form (i.e., data is reported in another article)	?
Yes (stop until the article is linked; specify reference number)	
° No	
<u>Clear Response</u>	
Was this part of a trial?	
We will be compiling all the studies per trial	
Yes (specify the trial name and stop) No Clear Response	

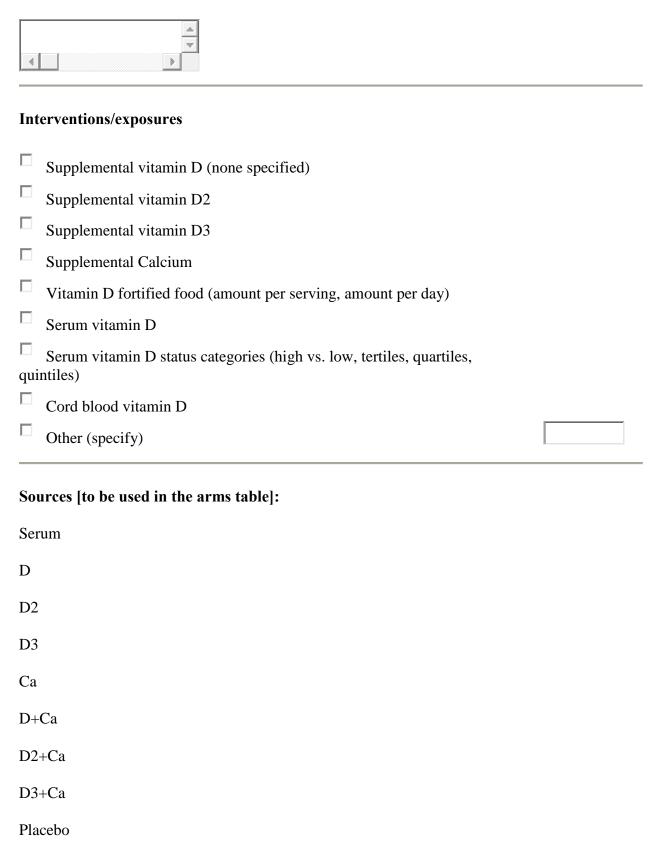
Stu	ndy Design
	RCT/CCT
	Prospective cohort
	Nested case control
	Post hoc
Poj	pulation and Study Characteristics
Inc	clusion criteria for the study (check all that apply)
	0-6 months
	7 months-2 years
	3-8 years
	9-18 years
	19-50 years
	51-70 years
	≥71 years
	Pregnant or lactating women
	Postmenopausal women
	Preterm newborns
	Healthy
	Persons with Osteopenia
□ Eng	Able to participate, understand glish
	Other 1 (please specify)
	Other 2 (please specify)
	Other 3 (please specify)
	Other 4 (please specify)
	Other 5 (please specify)

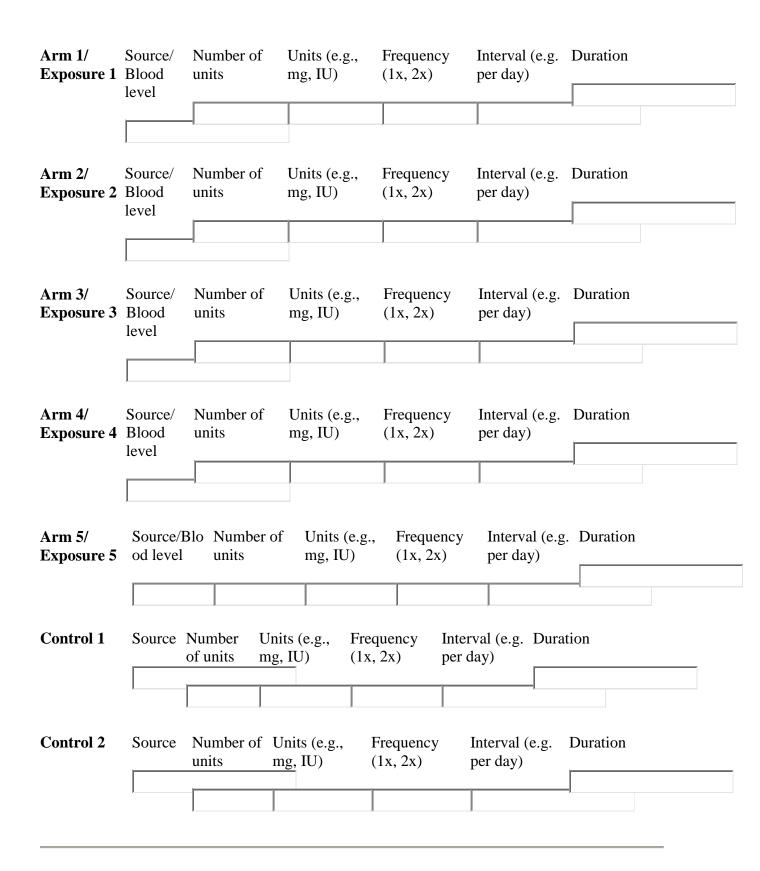
	Other 6 (please specify)		
	Other 7 (please specify)		
	Not specified		
Exc	lusion criteria for the study (check all th	at app	oly)
□ sup	Currently or previously taking vitamin d plements (provide detail)		
	Osteoporosis		
	Other systemic bone disease (e.g., pagets)		
	Prior fragility fracture		
	Prior cancer		
	Current cancer		
	Current cardiovascular disease		
	Hypertension		
	Type 2 DM		
	Pregnant		
	Autoimmune disease		
	Use of antihypertensives (provide details)		
□ (pro	Use of drugs related to bone metabolism vide details)		
□ k (e	Use of medications that interfere with vitaring, anticoagulants) (provide details)	min	
□ deta	Consumption of dietary supplements (proviils)	ride	
	Prior cancer diagnosis (provide details)		
	Prior CVD diagnosis (provide details)		
	Other comobidity(ies)(provide details)		
	Other 1 (specify)		
	Other 2 (specify)		

Other 3 (specify)	
Other 4 (please specify)	
Other 5 (please specify)	
Other 6 (please specify)	
Other 7 (please specify)	
Not specified	
Age (indicate the mean/range/SD of the contro	ol Race/Ethnicity
Mean age (indicate NR if not reported) Age range (indicate NR if not reported) Standard Deviation (if no age range was given)	Non-Hispanic white (if % was given, please specify) Hispanic (if % was given, please specify) Non-Hispanic black (if % was given, please specify) Asian (if % was given, please specify) Mixed (if % was given, please specify) Race not specified (if % was given, please specify) Other_1 (specify and if % was given, please specify) Other_2 (specify and if % was given, please specify) Other_3 (specify and if % was given, please specify) Other_3 (specify and if % was given, please specify)
	Other_4 (specify and if % was given, please specify)
	Other_5 (specify and if % was given, please specify)
	NR (if % was given for an unknown group, please specify)

Cou	ıntries	Enrollment profile	
	Australia (specify city, if given) Canada (specify city, if given) China (specify city, if given) Finland (specify city, if given) Germany (specify city, if given) Turkey (specify city, if given) UK (specify city, if given) USA (specify city, if given) Multiple Countries Other (please specify)	# Enrolled (indicate NR if not reported) % female (indicate NR if not reported)	
	Not reported		
Hea	alth and Nutritional status (check all that ap	oply)	
	Cancer in remission		
	Osteopenia/Ibd		
	Low birth weight/sga		
	Preterm birth		
□ defi	Vitamin D cient/depleted		
	Overweight/obese		
	Malnourished/frailty		
	Post menopausal		
	Other		
	Not Reported		

Baseline vitamin D/calcium intake/level (if reported, indicate "NR" if not reported)





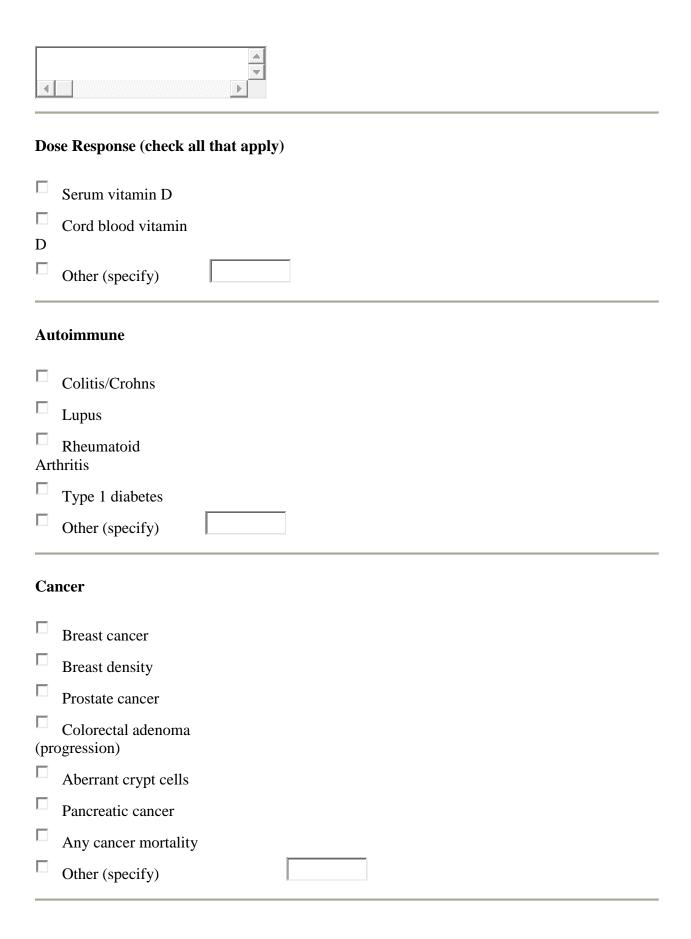
What characteristics were the controls and cases matched on?



What confounders were controlled for in analyses

	Other nutrients or dietary factors (specify)	
	Demographics (age, sex, race/ethnicity) (specify)	
	Anthropometrics (specify)	
	Medical conditions (specify)	
	Sun exposure (specify)	
	Smoking, other lifestyle factors (specify)	
	Other 1 (specify)	
	Other 2 (specify)	
	Other 3 (specify)	
	Other 4 (specify)	
	Other 5 (specify)	
	Other 6 (specify)	
	Other 7 (specify)	
Wh	at were the comparators?	
	Placebo	
	Not identified	
	Other vitamin d dose (specify)	
	Other (specify)	

Compliance with treatment? (indicate % or number or indicate "NR" for not reported, and "NA" if there was no treatment)



Infection-related mortality (specify) Allergy (specify) Asthma (specify) Pediatric allergy (in child of woman who was subject of intervention/exposure) (specify) Infectious process (specify) Other (specify) **Bone Health** Osteoporotic/fragility fx Bone mineral density/content Rickets Falls Muscle strength Osteoporosis Other (specify) Cardiovascular outcomes Hypertension Cardiovascular disease Myocardial infarction Blood pressure change Cardiovascular disease mortality Other (specify)

Infections/Allergy/Asthma

rre	gnancy and/or Lactating Outcomes
	Premature birth
	Low birth weight/small for gestational
age	Pre-eclampsia
	Pregnancy hypertension
	Infant mortality
	Other (specify)
Adv	verse Events
	All-cause mortality
	Cancer mortality
	Renal outcomes
calc	Soft tissue ification
	Other (specify)
Fun	nding
	Government
four	Private ndation
	Manufacturer
	Other (specify)
	Unclear
Hav	ve you reference mined this article?
0	Yes (specify references needed to be checked)

O No

Clear Response

Has this form been checked by a second reviewer?

O Yes

No <u>Clear Response</u>

Comments



QUALITY of INTERVENTIONAL STUDIES

Instructions: Y=Yes; N=No; ND=No Data; NA=not applicable
Study Design
O Parallel, RCT
Cross-over, RCT
Cluster, quasi-RCT
Non-randomized, but controlled trial
Before-and-after trial
Other interventional design (please explain in detail) Clear Response
Appropriate Randomization Technique
\circ Y
\circ N
° _{ND}
° NA
<u>Clear Response</u>
Allocation Concealment
\circ Y
\circ N
° _{ND}
° NA
Clear Response

Appropriate Washout Period
\circ Y
\circ N
° _{ND}
° NA
<u>Clear Response</u>
Is the Dropout Rate <20%
\circ Y
\circ N
° _{ND}
<u>Clear Response</u>
Blinded Outcome Assessment
\circ Y
\circ N
° _{ND}
<u>Clear Response</u>
Intention to Treat Analysis
\circ Y
\circ N
° _{ND}
° _{NA}
<u>Clear Response</u>
Appropriate Statistical Analysis
\circ Y
\circ N

ND Clear Response
Assessment for Confounding
° Y
° _N
° ND
NA Clear Response
Clear Reporting with No Discrepancies
° Y
° _N
<u>Clear Response</u>
OVERALL Grade
° A
B (explanation for overall quality grade)
C (explanation for overall quality grade) Clear Response

Comments

QUALITY of COHORT OR NESTED CASE-CONTROL STUDIES

Population
a) Eligibility criteria clear?
\circ_{Y}
° _N
<u>Clear Response</u>
b) Sampling of population random or consecutive?
\circ_{Y}
\circ N
<u>Clear Response</u>
Exposure (All) a) Exposure assessor blinded to outcome info?
a) Exposure assessor blinded to outcome info?
a) Exposure assessor blinded to outcome info? Y
 a) Exposure assessor blinded to outcome info? Y N
a) Exposure assessor blinded to outcome info? Y
a) Exposure assessor blinded to outcome info? Y N Clear Response
a) Exposure assessor blinded to outcome info? Y N Clear Response b) Outcome assessor blinded to exposure measurement?

Dietary assessment*

*Check "NA" and skip all questions if study did not use dietary assessment or biomarkers

a) Method reported?
\circ Y
\circ N
° _{NA}
<u>Clear Response</u>
b) Food composition database or suppl composition reported?
$^{\circ}$ Y
\circ N
° _{NA}
<u>Clear Response</u>
c) Internal calibration of method perform (if FFQ)?
\circ Y
$^{\circ}$ N
° NA
<u>Clear Response</u>
Biomarkers*
*Check "NA" and skip all questions if study did not use dietary assessment or biomarkers
a) One of the prespecified methods* was used?
*Prespecified methods: HPLC, RIA kits, LC-MS/MS; EIA/Chemiluminescence
\circ Y
O N
NA <u>Clear Response</u>
b) Time from sample collection to sample analysis reported?

° Y
$^{\circ}$ N
° NA
<u>Clear Response</u>
Comparator
a) Level of the exposure in comparative categories (e.g., quartiles) is given (ranges)?*
*applicable for categorical analyses only
\circ_{Y}
° N
<u>Clear Response</u>
Statistical Analysis
a) Adjusted or matched for ANY confounders (other than age and sex)?*
a) Adjusted or matched for ANY confounders (other than age and sex)?*
a) Adjusted or matched for ANY confounders (other than age and sex)?**We will judge in the end if the set of confounders is adequate
 a) Adjusted or matched for ANY confounders (other than age and sex)?* *We will judge in the end if the set of confounders is adequate Y
 a) Adjusted or matched for ANY confounders (other than age and sex)?* *We will judge in the end if the set of confounders is adequate Y N
a) Adjusted or matched for ANY confounders (other than age and sex)?* *We will judge in the end if the set of confounders is adequate O N Clear Response
 a) Adjusted or matched for ANY confounders (other than age and sex)?* *We will judge in the end if the set of confounders is adequate Y N Clear Response b) Justification of final adjusted model selection?

Outcome

a) Clear definition of outcome, including time of ascertainment?

$^{\circ}$ Y
\circ N
<u>Clear Response</u>
b) Loss to follow-up <20%?
\circ Y
\circ N
Clear Response
c) Do the authors specify a primary outcome?
\circ Y
\circ N
° NA
Clear Response
Design
Design a) Prospective collection of data?
a) Prospective collection of data? Y
a) Prospective collection of data? Y N
a) Prospective collection of data? Y N Clear Response
a) Prospective collection of data? Y N
a) Prospective collection of data? Y N Clear Response
a) Prospective collection of data? Y N Clear Response b) Analysis was planned when cohort was formed?
a) Prospective collection of data? Y N Clear Response b) Analysis was planned when cohort was formed? Y
a) Prospective collection of data? Y N Clear Response b) Analysis was planned when cohort was formed? Y N

° _N
NA NA
<u>Clear Response</u>
OVERALL Grade (A/B/C):
B (explanation for overall quality grade)
C (explanation for overall quality grade)
Clear Response

Comments