Table 32a. Vitamin D and preeclampsia: Characteristics of observational studies (updated from original report)

| **Author Year****Study Name****Location****(Latitude)****[PMID]** | **Population** | **Vitamin D Concentration** | **Comparisons** | **Confounders/Effect Modifiers Adjusted** |
| --- | --- | --- | --- | --- |
| **Nutrients** | **Demograph** | **Anthrop** | **Medical** | **UV Exposure** | **Lifestyle** |
| Bodnar 2007[179](#_ENREF_179)PEPPSAUS (41°N)[17535985] | * Health status
 | Healthy | * Assay method
 | ELISA | Comparison of mean 25(OH)D levels in cases and controls  |  | x | x |  |  |  |
| * Age range, y
 | 20-29 |
| * Male (%)
 | 0% | * Season blood drawn
 | ND |
| **Radioimmunoassay** |
| Shand, 2010[177](#_ENREF_177)EMMAVancouver, Canada | * Health status
 | nd |  |  | Preeclampsia stratified by 25(OH)D medians | X | X | X |  | X | X |
| * Mean age (SD), y
 | nd |
| * Male (%)
 | 0% |  |  |
| **Chemiluminescence Assay** |
| Wei, 2012[174](#_ENREF_174)International Trial of Antioxidants in the Prevention of Preeclampsia (INTAPP)Canada | * Health status
 | 31.3% in high-risk group including chronic hypertension, prepregnancy diabetes, multiple pregnancy, or a history of preeclampsia |  |  | Preeclampsia stratified by 25(OH)D tertiles |  | X | X | X | X | X |
| * Mean age (SD), y
 | 30.3 (4.8) |
| * Male (%)
 | 0% |  |  |
| Wei 2013[172](#_ENREF_172)INTAPPCanada | * Health status
* Mean age (SD), y
* Male (%)
 | nd28.68 (SD 5.44)0% |  |  | Preeclampsia stratified by 25(OH)D medians |  | X | X |  | X | X |
| **Enzyme-linked immunoabsorption assay** |
| Bodnar 2007[179](#_ENREF_179)PEPPSAUS (41°N)[17535985] | * Health status
 | Healthy | * Assay method
 | ELISA | Comparison of mean 25(OH)D levels in cases and controls  |  | x | x |  |  |  |
| * Age range, y
 | 20-29 |
| * Male (%)
 | 0% | * Season blood drawn
 | ND |
| **HPLC-Tandem mass Spectrometry** |
| Baker, 2010[175](#_ENREF_175)USChapel Hill, NC | * Health status
 | Healthy |  |  | Severe preeclampsia stratified by 25(OH)D tertiles  |  | X | X |  | X |  |
| * Mean age (range), y
 | 28 (23-34) |
| * Male (%)
 | 0% |  |  |
| Powe, 2010[178](#_ENREF_178)USBoston, MA | * Health status
 | nd |  |  | Severe preeclampsia stratified by 25(OH)D quartiles |  | X |  |  | X |  |
| * Mean age (SD), y
 | 30.4 (SD 6) |
| * Male (%)
 | 0% |
| Scholl 2013[173](#_ENREF_173)Camden StudyCamden, New Jersey US | * Health status
* Mean age (SD), y
* Male (%)
 | Healthy/NR22.8 (SD 5.4)0% |  |  | Preeclampsia stratified by 25(OH)D quartiles | X | X | X |  |  | X |
| Woodham 2011[176](#_ENREF_176)Chapel Hill, UK | * Health status
 | nd |  |  | Severe preeclampsia stratified by 25(OH)D |  | X | X |  | X |  |
| * Mean age (range), y
 | 29 (25-33) |
| * Male (%)
 | 0% |

APregnancy Exposures and Preeclampsia Prevention Study