**Article title**: Adequate vitamin A liver stores as estimated by the Modified Relative Dose Response (MRDR) test is associated with breastfeeding but not with vitamin A supplementation among 9-23 months Senegalese urban children: a comparative cross-sectional study.

**GLOSSARY OF VARIABLES**

|  |  |
| --- | --- |
| **Variables codes** | **Prompt** |
| IDENF | Identification code of children |
| GROUPE | Groupe code: 1= vitamin A supplemented group (VAS), 2= non vitamin A supplemented group (non-VAS) |
| SEXENF | Sex of the children: Male= 1, Female= 2 |
| WEIGHT | Weight of the children in kilograms |
| LENGTH | Length of the children in centimeters |
| AGEENFMOIS\_EL | Age of the children in months at eligibility |
| LAZ | Length-for-age z-scores |
| WLZ | Weight-for-length z-scores |
| GRLAZ | Category of length-for-age: 0= No stunting 1= moderate stunting  |
| GRWLZ | Category of weight-for-length: 0= No wasting 1= moderate wasting  |
| HB | Hemoglobin concentration, g/dL |
| ANEMIE | Anemia: 0= No, 1= Yes |
| AGEENFCAL\_COR | Age of the children in months at the time of the survey and MRDR test |
| GRPEAGE | Age group of the children: 1= 9-11 months, 2= 12-17 months, 18-23 months. |
| SVA1FOIS | Have received vitamin A supplements at least 1 time: 1= Yes, 2= No |
| GRDUREEDSVA | Duration since last supplementation in months: 1= 2 mo, 2= 3 mo; 3= 4 mo, 4= 5 mo, 5= 6 mo, 6= ≥ 7 months |
| AGEMERE | Age of the mothers in years |
| SITMATRIMER2 | Marital status of the mothers: 1= Married, 2= Single, 3= Widow, 4= Divorced |
| ETHMER | Ethnicity of the mothers1= Wolof/Lébou, 2= Manding/Socé, 3= Toucouleur, 4= Diola, 5= Bambara 6= Serere, 7= Pulaar, 8= Ndiago, 9= Autre |
| GRNIVINSMER2 | Education of the mothers: 1= No formal, 2= Formal, 3= Koranic, 4= Vocational, 5= Other |
| GRPROFMER2 | Occupation of the mothers: 1= Unemployed, 2= Employed, 3= Volunteer |
| PARITEMER | Parity of the mothers: 1= Primiparous, 2= Multiparous |
| NBRPMEN | Number of household members |
| NBRENFMC | Number of children under five |
| POURSALLAIT | Is the child still being breastfed: 0= No, 1= Yes |
| ENFSEVRE | Is the child weaned: 0= No, 1= Yes |
| SIOQAGE | Children weaning age in months |
| NBRREPASJP\_COR | Meal frequency of children |
| NBRLACTE | Number of milk feeds |
| FMR | Minimum meal frequency: 0= not met, 1= met |
| SDA | Dietary diversity score |
| GRPESDA | Minimum dietary diversity: 0= not met, 1= met |
| AAMA2 | Minimum acceptable diet: 0= not met, 1= met |
| HUILENRVITA | Consumption of vitamin A fortified oil by households: 1= Yes, 2= No, 3= Do not know |
| BLLONCUIS | Consumption of bouillon cubes by households: 1= Yes, 2= No |
| SIONOMBLLON | Brands of consumed bouillon cubes |
| BLLONENR | Consumption of fortified bouillon cubes by households: 1= Yes, 2= No |
| VITAMINEA | Consumption of vitamin A fortified bouillon cubes by households: 1= Yes, 2= No |
| MALADIE | Illness within the two weeks prior to the study: 1= Yes, 2= No |
| DIARRHEQDJ | Diarrhoea within the two weeks prior to the study: 1= Yes, 2= No, 3= Do not know |
| TOUX | Cough/ breathing trouble within the two weeks prior to the study: 1= Yes, 2= No, 3= Do not know |
| FIEVREQDJ | Fever within the two weeks prior to the study: 1= Yes, 2= No |
| IRRUPCUTANE | Skin rash within the two weeks prior to the study: 1= Yes, 2= No |
| DEPARASITE | Deworming within the last 6 months: 1= Yes, 2= No, 3= Do not know |
| MRDR\_unadjusted | DR: R ratio, unadjusted |
| GRMRDR | Group of DR:R ratio: 0= Adequate liver reserves, 1= Low liver reserves |
| ROH\_unadjusted | Serum retinol concentration, μmol/L, unadjusted |
| GRROH | Group of serum retinol concentration, unadjusted: 0= not deficient, 1= deficient |
| MRDR\_adjusted\_APT | DR: R ratio, adjusted for age, weight and length |
| ROH\_adjusted\_APT | Serum retinol concentration, μmol/L, adjusted for age, weight and length |
| AGP | Serum α1-acid-glycoprotein concentration, g/L |
| CRP | Serum C-Reactive Protein concentration, mg/L |
| CLASINF | Group of inflammation: 1= No inflammation, 2= Incubation, 3= Early convalescence, 4= Late convalescence |
| CLASINF2 | Group of inflammation: 0= No inflammation, 1= Any inflammation |
| LOGCRP | Decimal logarithm of CRP |
| ROHajuste\_inf | Serum retinol concentration, μmol/L, adjusted for inflammation using BRINDA methodology |
| GRROHajuste\_inf | Group of serum retinol concentration, adjusted for inflammation using BRINDA methodology: 0= not deficient, 1= deficient |
| WEALTHSCORE | Index of socio-economic status |
| TERTILE | Socioeconomic tercile based on socio-economic status index: 1= Lowest, 2= Middle, 3= Higher |