Nouna Health and Demographic Surveillance System

BURKINA FASO
Zabre S. Pascal

INDEPTH Adolescents Fertility workshop
02-06 May 2016
Accra, Ghana

Centre de Recherche en Santé de Nouna, Burkina Faso
http://www.crsn-nouna.bf
Introduction

• Nouna Health and Demographic Surveillance System (N-HDSS) started in 1992 and is the older in Burkina Faso

• It is located in the sub-urban town of Nouna situated at the north-west about 300 km from Ouagadougou, the Capital

• N-HDSS aims to provide evidence based on research results for best implementation of health programs and politicis.
Location and population of Nouna HDSS

Burkina Faso
Area: 274 000 km²
Pop. 18 000 000
Health Regions: 13
Health Districts: 70

Nouna district
Area: 7 464,44 km²
Pop. 312 080 inhabitants
Hospital of District: 1
Primary Health Centres (CSPS): 45

Nouna HDSS
Area: 1 775 km²
Pop. 104 674 inhabitants
Villages: 58
Town: 1

Centre de Recherche en Santé de Nouna, Burkina Faso
http://www.crsn-nouna.bf
Some indicators

- Economical activities: agriculture
- Fertility: 5.1 (2014)
- Women 50.5%
- Men 49.5%
- Density: 59
- Crude birth rate: 32.9‰ (2014), 36.6‰ (2013)
- Total fertility rate: 5.2 per women
- Crude death rate: 7.3‰
- Infant mortality rate: 30.6‰; 77.4‰
- Life expectancy: 65
Population Masculine et Féminine
SSDS-Nouna, 2014

Source: BD-SSDS-CRSN, 2015

Population Masculine et Féminine
SSDS-Nouna(urbain), 2014

Source: BD-SSDS-CRSN, 2015

Population Masculine et Féminine
SSDS-Rural(Villages), 2014

Source: BD-SSDS-CRSN, 2015

Centre de Recherche en Santé de Nouna, Burkina Faso
http://www.crsn-nouna.bf
## Availability of data related to fertility

### Required and optional data for Fertility Analysis

| SEJOUR | IndividualId | X | LocationId | X | HouseholdId | X | Compound | X | DoB | X | Sex | X | Date of Entry | X | Type of Entry | X | Date of Exit | X | Type of Exit | X | MotherID | X |
|--------|--------------|---|------------|---|-------------|---|----------|---|-----|---|-----|---|---------------|---|--------------|---|------------|---|----------|---|
|        | Marital status at Entry (for women) | Incomplete | Parity at Entry (for women) | - | IndividualId | X | Date of Birth | X | Rank | X |                |   |              |   |            |   |          |   |

### MARRIAGE

| IndividualId | X | MarriageDate | X | MarriageType | X |

### DIVORCE

| IndividualId | X | DivorceDate | - | DivorceType | - |

### WIDOW

| IndividualId | X | WidowDate | - | WidowType | - |

### OTHER

| IndividualId | X | level of education | Incomplete, but economical level of HH | 2005-2011 | occupation of Head of HH | Incomplete | education of Head of HH | Incomplete |
Recents publications from N-HDSS

- HIV/AIDS-RELATED MORTALITY IN AFRICA AND ASIA: EVIDENCE FROM INDEPTH HEALTH AND DEMOGRAPHIC SURVEILLANCE SYSTEM SITES  
  doi:http://dx.doi.org/10.3402/gha.v7.25370.


Recents publications from N-HDSS


- The effect of communitybased health insurance on the utilization of modern health care services: evidence from Burkina Faso.


Recents publications from N-HDSS

• 12 Using community wealth ranking to identify the poor for subsidies: case study of community-based health insurance in Nouna, Burkina Faso
  • Souares A, Savadogo G, Dong H., Parmar D., Sié A., Sauerborn R.
  • Health & social Care in the Community (Impact Factor 1.054).

• 13 Household risk factors for clinical malaria in a semiurban area of Burkina Faso: a casecontrol study.
  • Yamamoto S, Louis VR, Sié A, Sauerborn R.

• 14 Access to malaria treatment in young children of rural treatment in young children of rural Burkina Faso
  • MaikeTipke, Valérie R Louis, Maurice Yé, Manuella De Allegri, Claudia Beiersmann, Ali Sié, Olaf Müeller and Albrecht Janhn
  • Malaria Journal MS : 458873312979649

• 15 Potential anthropogenic and natural breeding sites for Anopheles mosquitoes in rural Burkina Faso identified through remote sensing
  • Dambach´P, Sié A1, Sagnon2 N, Lacaux3 JP, Vignolles4 C, Lafaye4 M, Sauerborn° R.
Potential Research

- Topic I & II:
  - Change in adolescent fertility and overall fertility levels and declines
  - Education and fertility

- But possibility for topic III on a sample < 1/10 of HDSS: the socio economic data is collected on a sample
THANKS