

# Navrongo Demographic and Health Surveillance System

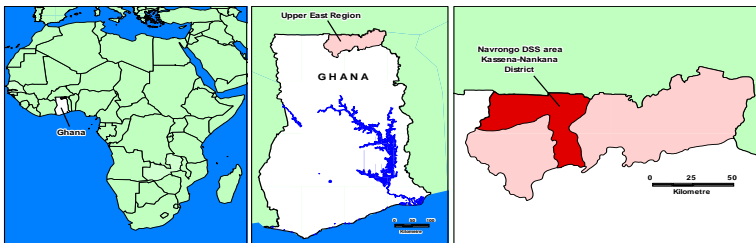
Navrongo Health Research Centre  
Ghana Health Service  
Ministry of Health

**Cornelius Debpuur**



# Location and Demographics

- DSS began 1993
- Population 161429 (2014)
- Population Density 96.4/km<sup>2</sup>
- Urban population 20%
- TFR 3.5 (2013)
- IMR 21/1000 (2013)
- Adolescents (10-24yrs) 32%
- Economic activity – agriculture
- Bi-ethnic community



# DATA - I

Required data for Fertility Analysis			Optional data for Fertility Analysis		
Source table	Variable	Availability	Source table	Variable	Availability
SEJOUR	IndividualId	√	BIRTH	IndividualID	√
	LocationId	√		Date of Birth	√
	HouseholdId	√		Rank	
	CompoundId	√	MARRIAGE	IndividualID	√
	DoB	√		MarriageDate	√
	Sex	√		MarriageType	√
	Date of Entry	√	WIDOW	WidowDate	√
	Type of Entry	√		WidowType	√
	Date of Exit	√		Other info	
	Type of Exit	√		IndividualID	√
	MotherID	√	DIVORCE	DivorceDate	√
	Marital status - entry	X		DivorceType	√
	Parity at entry	X		Other info	

# DATA - II

Optional data for Fertility Analysis		
Source table	Variable	Availability
OTHER	IndividualId	√
	Level of education	√
	Employment status of HH	X
	Occupation of HH	X
	Education of HH	√
	Living arrangement	?
	Other useful info	

# Selected Publications - I

- Adongo P, Phillips JF, Kajihara B, Binka FN, Debpuur C, Fayorsey CK . **Cultural factors constraining the introduction of family planning among the Kassena-Nankana of northern Ghana.** *Social Science and Medicine: 1997 Dec; 45(12): 1789-804. PMID: 9447629*
- Nazzar A, Adongo PB, Binka FN, Phillips JF, Debpuur C. **Developing a Culturally Appropriate Family Planning program for the Navrongo Experiment.** *Studies in Family Planning 1995 Nov-Dec; 26(6): 307-324.PMID: 8826071*
- Binka FN, Nazzar A, Phillips JF. **The Navrongo Community Health and Family Planning Project.** *Studies in family Planning 1995; May-Jun 26(3):121-139:PMID 7570763*
- Bawah AA: **Spousal communication and family planning behavior in Navrongo: a longitudinal assessment.** *Studies in Family Planning. 2002 Jun;33(2):185-94.PMID:12132638*
- Debpuur C, Bawah AA. **Are Reproductive Preferences Stable? Evidence from Rural Northern Ghana.** *Genus LVIII 2002; (2):63-89*
- Debpuur C, Phillips JF, Jackson EF, Nazzar A, Ngom P and Binka F: **The impact of the Navrongo Project on Contraceptive Knowledge and Use, Reproductive Preferences, and Fertility.** *Studies in Family Planning 2002;33(2):141-164*
- Mensch, BS, Bagah D, Clark WH, Binka FN. **The changing nature of adolescence in the Kassena-Nankana district of Northern Ghana.** *Studies in Family Planning, 1999; 30 (2):95-111.*
- Adongo, P. Akweongo, P., Binka, FN., Mbacke, C. **Female genital mutilation: Socio-cultural factors that influence the practice in the Kassena-Nankana District** *African Journal of Reproductive Health 1998; 2(2): 25 – 36.*

# Selected Publications - II

- Mbacke C, Adongo A, Akweongo P, Binka FN. **Prevalence and correlates of female genital mutilation in the Kassena-Nankana district of Northern Ghana.** *African Journal of Reproductive Health* 1998; 2(2): 13-24.
- Adongo P, Phillips JF, Binka FN. **The influence of traditional religion on fertility regulation among the Kassena-Nankana of northern Ghana.** *Studies in Family Planning*, 1998 Mar; 29(1):23-40;PMID 9561667.
- Achana FS, **Debpuur c**, Akweongo P, Cleland. 2010. **Postpartum abstinence and risk of HIV among young mothers in the Kassena-Nankana District of Northern Ghana.** *Culture, Health & Sexuality*, 12(5):569-81.
- Achana, Sebastian F, Patricia Akweongo, **Cornelius Debpuur**, John Cleland. 2009. **Coping Strategies of Young Mothers at Risk of HIV/AIDS in the Kassena- Nankana District of Northern Ghana.** *African Journal of Reproductive Health*; 13[1]:61-78
- Oduro AR, Wak G, Azongo D, Debpuur C, Wontuo P, Kondayire F, Welaga P, Bawah A, Nazzar A, Williams J, Hodgson A and Binka F. **[Profile of the Navrongo health and demographic surveillance system.](#)** *Int J Epidemiol.* 2012 Aug;41(4):968-76.
- Aninanya GA, Debpuur CY, Awine T, Williams JE, Hodgson A, Howard N (2015). **Effects of an Adolescent Sexual and Reproductive Health Intervention on Health Service Usage by Young People in Northern Ghana: A Community-Randomised Trial.** *PLoS ONE* 10(4): e0125267. doi:10.1371/journal.pone.0125267

# Potential Research Areas

- Changes in adolescent fertility and overall fertility levels and declines
- The contribution of increasing educational opportunities for girls in delaying age at first childbearing and reducing adolescent fertility





Thank you!