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Adolescent Fertility Trends and Factors in Niger: Analysis of the Total Cohort Fertility in Adolescence (TCFA)

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1. Purpose of the Study

- Girls aged 10-19 currently make up 12% of Niger's population (2020).
 With such a high proportion of adolescent girls, Niger faces significant sexual and reproductive health challenges.
- This study examined adolescent fertility in Niger, its trends and associated factors.

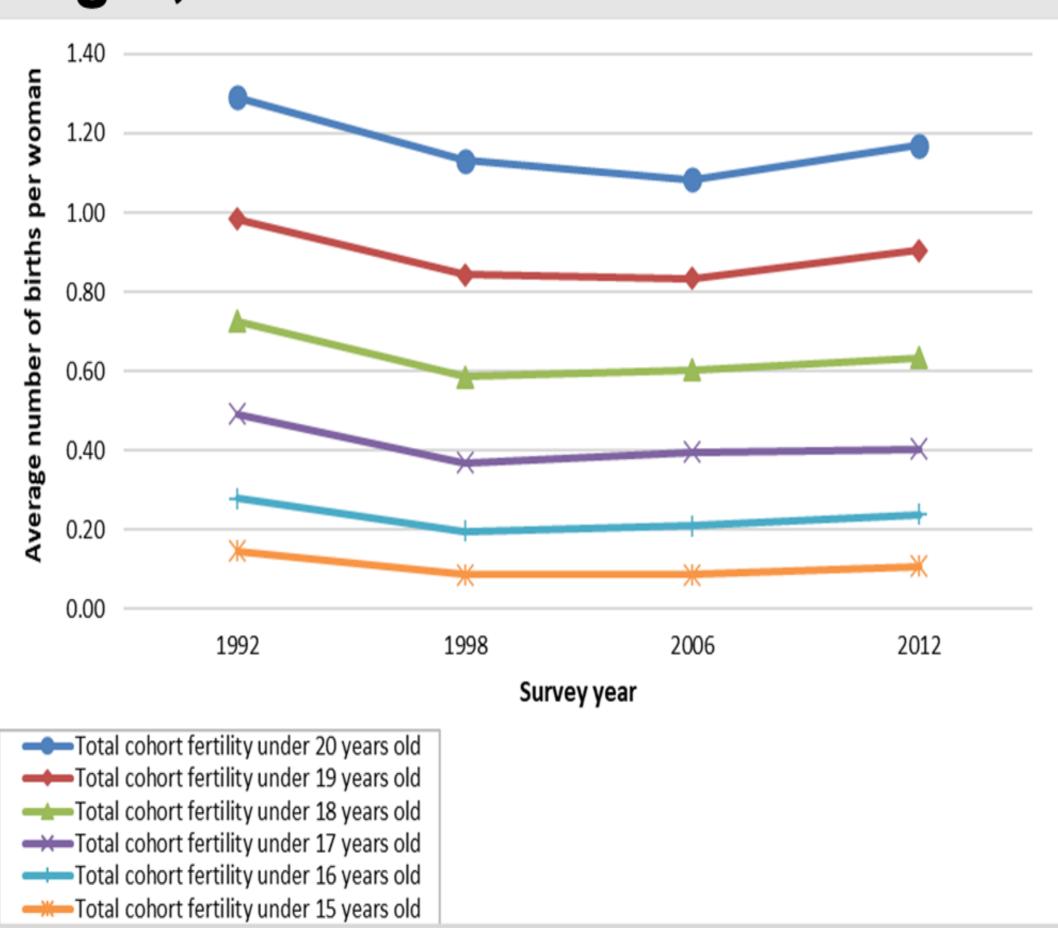
2. Methods

- Data: Niger's Demographic and Health Surveys (DHS) conducted between 1992 and 2012.
- Descriptive methods: Total cohort fertility in adolescence (TCFA), and the Distribution of the number of adolescent births.

$$TCFA = \frac{total\ number\ of\ births\ in\ adolescence\ of\ women\ in\ the\ cohort}{total\ number\ of\ women\ in\ the\ cohort} = \sum_{x=10}^{19} f_x^c$$

 Multivariate methods: Logistic and Poisson models to analyse adolescent fertility factors.

Fig. 1. Variation in the TCFA in Niger, 1992-2012.

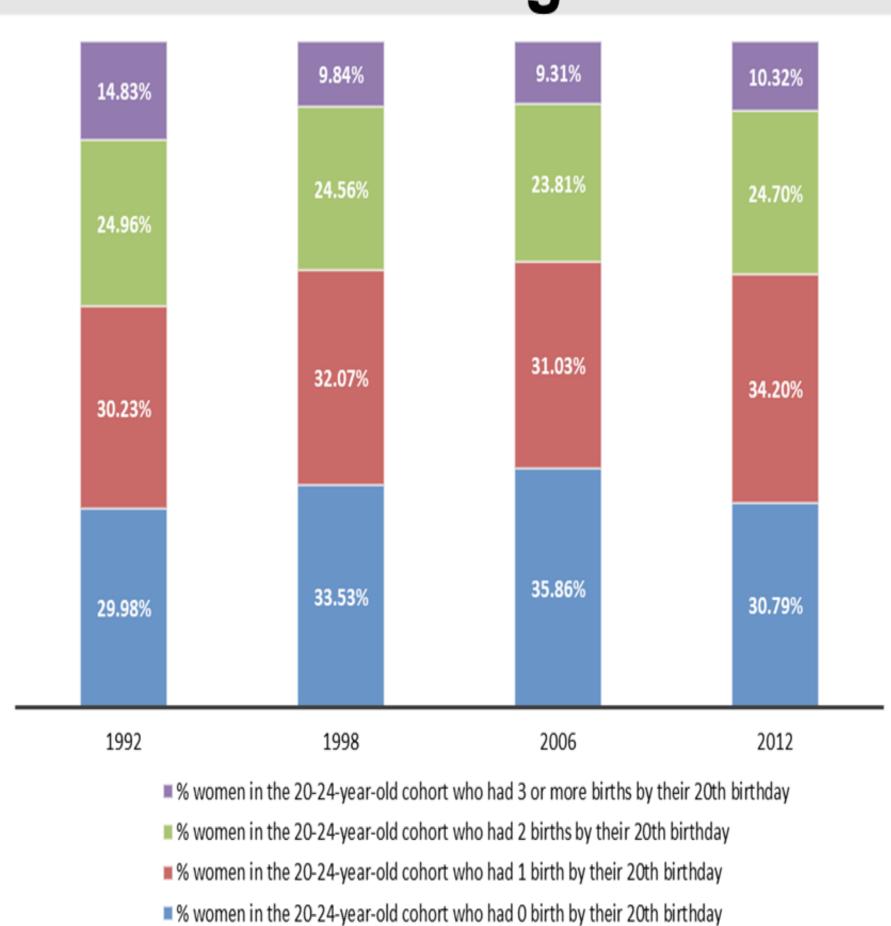


- A high but stable TCFA in Niger:
 1.3 births per adolescent in
 1992, and 1.2 in 2012 (Fig.1).
- TCFA by region in in Niger 2012:
 0.61 in Niamey, 0.62 in Agadez,
 1.01 in Dosso, 1.25 in Tahoua,
 1.38 in Zinder, 1.48 in Maradi
 and 1.56 in Diffa.

The results indicate a high level of adolescent fertility in Niger, which is a well-established and stable phenomenon influenced by factors such as early sexual intercourse and marriage, infant mortality and the desire for large families.

3. Key Findings

Fig.2. Distribution of young women according to the number of teen-age births.



In each of the cohorts, 30%-35% of young women had 0 births by age 20, 30%-34% had a single birth, about 25% had 2 births, and 9%-14% had 3 or more births (Fig. 2).

Table.1. Factors influencing the number of children born alive during adolescence in Niger.

Variables	N (%)	dds ratio (OR)	95% Confidence Limits		p-Value
Age at 1st sexual intercourse					
<13	443 (7%)	Ref (OR=1.0			
13	504 (8%)	0.587	0.267	1.291	0.186
14	926 (15%)	0.505	0.238	1.070	0.074
15	1,238 (20%)	0.648	0.305	1.380	0.261
16	707 (11%)	0.536	0.238	1.206	0.132
17	650 (10%)	0.411	0.178	0.948	0.037
18-19	734 (12%)	0.164	0.073	0.369	<.0001
Did not have sex before 20	1,048 (17%)	0.007	0.003	0.017	<.0001
Age at first marriage/union					
<13	497 (8%)	5.730	2.283	14.386	0.0002
13	525 (8%)	9.330	3.491	24.936	<.0001
14	909 (15%)	11.125	4.581	27.015	<.0001
15	1,154 (18%)	5.126	2.208	11.902	0.0001
16	688 (11%)	4.274	1.873	9.751	0.0006
17	598 (10%)	2.535	1.121	5.732	0.0254
18-19	690 (11%)	1.592	0.734	3.450	0.2390
Not married before 20	1,189 (19%)	Ref (OR=1.0	000)		
Ideal number of children					
3 or less	294 (5%)	Ref (OR=1.0			
4-6	2047 (33%)	2.222	1.435	3.440	0.0003
7-9	1,342 (21%)	2.867	1.831	4.490	<.0001
10 or more	1,839 (29%)	2.414	1.557	3.741	<.0001
Don't know & Other non-	728 (12%)	3.525	2.185	5.687	<.0001
numerical response	720 (1270)	0.020	2.100	2.007	
Knowledge of the ovulatory cycle					
Correct knowledge	1,049 (17%)	Ref (OR=1.0			
Questionable knowledge	3,320 (53%)	1.171	0.932	1.471	0.1765
Lack of knowledge	1,881(30%)	0.827	0.648	1.055	0.1262
Knowledge of any contraceptive m					
At least 1 method	5,276 (84%)	Ref (OR=1.0	,		
Knows no method	974 (16%)	0.502	0.413	0.611	<.0001
Current use of any contraceptive r		D 6/05 1	2003		
At least 1 method	752 (12%)	Ref (OR=1.0		0.020	0.0000
Use no method	5,498 (88%)	0.632	0.482	0.829	0.0009
Current marital status	0.00 (4.404)	D 0/00			
Never in union	853 (14%)	Ref (OR=1.0			0.01
Married/in union	5,136 (82%)	1.094	0.511	2.341	0.8166
Widowed/Divorced/separated	261 (4%)	0.517	0.227	1.176	0.1156
Type of place of residence	0.000 (0.00)	1.007	1.000	1.600	0.0070
Urban	2,289 (37%)	1.287	1.029	1.609	0.0273
Rural	3,961 (63%)	Ref (OR=1.0	000)		
Cohort	1.004 (000)	D. C.(O.D. 1.1	200		
Women aged 20-24 at 1992 DHS	1,234 (20%)	Ref (OR=1.0			0.0725
Women aged 20-24 at 1998 DHS	1,372 (22%)	0.981	0.773	1.244	0.8735
Women aged 20-24 at 2006 DHS	1,676 (27%)	1.499	1.181	1.902	0.0009
Women aged 20-24 at 2012 DHS	1,968 (31%)	1.352	1.075	1.700	0.0099
Total	6,250 (100%)				

4. Conclusion

 Niger needs to put in place the necessary policies to take advantage of its demographic potential.

5. References

Ouedraogo, A. (2024). Using Total Cohort Fertility in Adolescence (TCFA) to analyse adolescent fertility trends and factors in Niger: Evidence from 1992 to 2012 demographic and health surveys. Afr JRH 28[2]: 13-30.