



Figure S1. Flowchart of participants throughout the study

Table S1. Association between prolonged exclusive breastfeeding and socioeconomic factors between 1992-93 and 2019-21 from single adjusted model

	Prolonged exclusive breastfeeding, OR (95% CI)					<i>P</i> for interaction
	1992-93	1998-99	2005-06	2015-16	2019-21	
Model 1†						
Type of residence						
Urban	Ref.	Ref.	Ref.	Ref.	Ref.	0.067
Rural	0.93(0.63,1.38)	1.06(0.60,1.90)	1.34(0.78,2.28)	1.07(0.87,1.32)	1.10(0.95,1.28)	
Household wealth quintile						
1, poorest	1.53(0.75,3.10)	2.07(0.93,4.59)	3.12(1.22,8.00)* §	1.37(1.04,1.80)*	1.22(0.99,1.51)	<0.001
2	1.50(0.80,2.78)	1.38(0.63,3.00)	2.03(0.82,5.02)	1.37(1.09,1.73)**	1.33(1.09,1.61)**	
3	1.45(0.77,2.73)	1.06(0.52,2.19)	1.31(0.56,3.11)	1.29(1.02,1.62)*	1.20(0.99,1.45)	
4	1.02(0.58,1.80)	0.96(0.48,1.91)	0.97(0.44,2.14)	1.13(0.91,1.40)	1.10(0.91,1.32)	
5, richest	Ref.	Ref.	Ref.	Ref.	Ref.	
Maternal education						
No schooling	1.78(0.50,6.29)	2.05(0.91,4.62)	5.38(1.55,18.71)**	1.07(0.86,1.33)	1.21(1.01,1.44)*	<0.001
Primary	0.78(0.21,2.89)	1.41(0.63,3.18)	4.01(1.11,14.51)*	1.08(0.81,1.44)	1.19(0.97,1.46)	
Secondary	0.60(0.16,2.25)	1.00(0.45,2.19)	3.46(1.08,11.15)*	1.03(0.84,1.25)	1.03(0.88,1.20)	
College or higher	Ref.	Ref.	Ref.	Ref.	Ref.	
Model 2‡						
Type of residence						
Urban	Ref.	Ref.	Ref.	Ref.	Ref.	0.0908
Rural	0.90(0.62,1.33)	1.07(0.59,1.93)	1.31(0.76,2.25)	1.09(0.88,1.35)	1.14(0.99,1.32)	
Household wealth quintile						
1, poorest	1.35(0.69,2.66)	1.83(0.79,4.24)	3.06(1.23,7.63)*	1.31(1.00,1.71)*	1.19(0.97,1.45)	<0.001

2	1.44(0.79,2.62)	1.31(0.58,2.93)	1.89(0.79,4.54)	1.35(1.08,1.70)**	1.29(1.07,1.55)**	
3	1.32(0.70,2.47)	1.02(0.48,2.16)	1.32(0.57,3.09)	1.25(0.99,1.58)	1.16(0.97,1.39)	
4	0.99(0.57,1.71)	1.02(0.51,2.05)	1.05(0.48,2.31)	1.09(0.88,1.35)	1.06(0.89,1.27)	
5, richest	Ref.	Ref.	Ref.	Ref.	Ref.	
Maternal education						
No schooling	1.77(0.50,6.29)	2.09(0.93,4.71)	4.64(1.37,15.68)*	1.05(0.84,1.30)	1.18(1.00,1.38)*	
Primary	0.76(0.20,2.83)	1.43(0.63,3.22)	4.02(1.15,13.99)*	1.04(0.77,1.39)	1.16(0.95,1.41)	<0.001
Secondary	0.58(0.15,2.21)	1.02(0.47,2.22)	3.33(1.05,10.52)*	1.01(0.83,1.23)	1.01(0.87,1.17)	
College or higher	Ref.	Ref.	Ref.	Ref.	Ref.	

Abbreviations: OR – odds ratio.

† Adjusted for children age, breastfeeding initiation, drinking water source, sanitation facility, antenatal care visits.

‡ Adjusted for children gender, breastfeeding initiation, drinking water source, sanitation facility, antenatal care visits.

§* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

Table S2. Association between children receiving breastmilk plus water and socioeconomic factors between 1992-93 and 2019-21 from mutually adjusted model†

	Breastfeeding plus water, OR (95% CI)					<i>P</i> for interaction
	1992-93	1998-99	2005-06	2015-16	2019-21	
Child's age, mo						
6-8	10.27(8.17,12.91)***b	10.57(8.63,12.94)* **	16.05(12.32,20.92) ***	8.56(7.79,9.40)***	6.54(6.02,7.12)***	<0.001
9-11	3.30(2.50,4.36)***	3.91(3.04,5.03)***	5.81(4.20,8.05)***	3.24(2.93,3.59)***	2.48(2.26,2.72)***	
12-23	Ref.	Ref.	Ref.	Ref.	Ref.	
Child gender						
Male	Ref.	Ref.	Ref.	Ref.	Ref.	0.562
Female	1.11(0.92,1.34)	1.00(0.84,1.20)	1.15(0.94,1.42)	1.05(0.97,1.13)	1.00(0.93,1.07)	
Type of residence						
Urban	Ref.	Ref.	Ref.	Ref.	Ref.	0.680
Rural	0.93(0.71,1.22)	0.84(0.66,1.08)	0.86(0.64,1.14)	1.03(0.91,1.16)	1.09(0.97,1.21)	
Household wealth quintile						
1, poorest	1.23(0.77,1.95)	1.89(1.22,2.93)**	2.46(1.41,4.30)**	1.44(1.20,1.74)***	1.38(1.17,1.63)***	<0.001
2	1.26(0.83,1.91)	1.19(0.78,1.81)	1.45(0.85,2.46)	1.30(1.10,1.53)**	1.39(1.20,1.62)***	
3	1.13(0.76,1.68)	1.29(0.88,1.89)	1.77(1.08,2.91)*	1.23(1.04,1.44)*	1.25(1.08,1.44)**	
4	1.09(0.76,1.56)	0.97(0.70,1.35)	1.25(0.81,1.93)	1.16(0.99,1.35)	1.13(0.98,1.31)	
5, richest	Ref.	Ref.	Ref.	Ref.	Ref.	
Maternal education						
No schooling	3.67(1.32,10.16)*	2.74(1.75,4.29)***	2.01(1.07,3.76)*	1.55(1.32,1.82)***	1.45(1.25,1.67)***	<0.001
Primary	1.97(0.72,5.40)	1.73(1.10,2.71)*	1.76(0.92,3.37)	1.28(1.06,1.54)**	1.22(1.04,1.43)*	
Secondary	1.58(0.57,4.37)	1.65(1.09,2.50)*	1.05(0.59,1.86)	1.25(1.08,1.44)**	1.08(0.96,1.22)	

College or higher

Ref.

Ref.

Ref.

Ref.

Ref.

Abbreviations: OR – odds ratio.

† Adjusted for breastfeeding initiation, drinking water source, sanitation facility, and antenatal care visits.

‡* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

Table S3. Association between children receiving breastmilk plus water and socioeconomic factors between 1992-93 and 2019-21 from single adjusted model

	Breastfeeding plus water, OR (95% CI)					<i>P</i> for interaction
	1992-93	1998-99	2005-06	2015-16	2019-21	
Model 1†						
Type of residence						
Urban	Ref.	Ref.	Ref.	Ref.	Ref.	0.680
Rural	0.93(0.71,1.22)	0.84(0.66,1.08)	0.85(0.64,1.13)	1.03(0.91,1.16)	1.09(0.97,1.21)	
Household wealth quintile						
1, poorest	1.24(0.78,1.97)	1.89(1.22,2.93)** §	2.47(1.41,4.32)**	1.45(1.20,1.74)***	1.38(1.17,1.63)***	<0.001
2	1.27(0.83,1.93)	1.19(0.78,1.81)	1.46(0.86,2.48)	1.30(1.10,1.54)**	1.39(1.20,1.62)***	
3	1.14(0.77,1.69)	1.29(0.88,1.89)	1.78(1.08,2.92)*	1.23(1.04,1.44)*	1.25(1.08,1.44)**	
4	1.10(0.77,1.57)	0.97(0.70,1.35)	1.26(0.81,1.95)	1.16(0.99,1.35)	1.13(0.98,1.31)	
5, richest	Ref.	Ref.	Ref.	Ref.	Ref.	
Maternal education						
No schooling	3.67(1.33,10.15)*	2.74(1.75,4.29)***	2.01(1.08,3.76)*	1.55(1.32,1.82)***	1.45(1.25,1.67)***	<0.001
Primary	1.98(0.72,5.41)	1.73(1.10,2.71)*	1.77(0.93,3.38)	1.28(1.06,1.54)**	1.22(1.04,1.43)*	
Secondary	1.58(0.57,4.35)	1.65(1.09,2.50)*	1.06(0.60,1.86)	1.24(1.08,1.44)**	1.08(0.96,1.22)	
College or higher	Ref.	Ref.	Ref.	Ref.	Ref.	
Model 2‡						
Type of residence						
Urban	Ref.	Ref.	Ref.	Ref.	Ref.	0.751
Rural	0.91(0.71,1.16)	0.87(0.68,1.13)	0.87(0.66,1.15)	1.05(0.94,1.19)	1.12(1.01,1.24)*	
Household wealth quintile						
1, poorest	1.07(0.69,1.66)	1.66(1.07,2.55)*	2.32(1.38,3.91)**	1.35(1.13,1.61)**	1.33(1.14,1.54)***	0.002
2	1.18(0.80,1.75)	1.16(0.76,1.76)	1.39(0.85,2.29)	1.27(1.08,1.49)**	1.34(1.16,1.54)***	

3	1.02(0.70,1.48)	1.25(0.85,1.84)	1.71(1.07,2.72)*	1.19(1.01,1.39)*	1.20(1.05,1.38)**	
4	1.04(0.74,1.46)	1.04(0.76,1.43)	1.37(0.91,2.07)	1.11(0.96,1.29)	1.09(0.95,1.25)	
5, richest	Ref.	Ref.	Ref.	Ref.	Ref.	
Maternal education						
No schooling	3.41(1.24,9.37)*	2.59(1.67,4.03)***	1.62(0.90,2.93)	1.45(1.24,1.69)***	1.36(1.19,1.55)***	
Primary	1.88(0.69,5.12)	1.74(1.11,2.73)*	1.56(0.85,2.88)	1.19(0.99,1.43)	1.18(1.01,1.37)*	<0.001
Secondary	1.50(0.54,4.11)	1.65(1.10,2.49)*	1.00(0.58,1.73)	1.20(1.04,1.38)*	1.06(0.94,1.18)	
College or higher	Ref.	Ref.	Ref.	Ref.	Ref.	

Abbreviations: OR – odds ratio.

† Adjusted for children age, breastfeeding initiation, drinking water source, sanitation facility, antenatal care visits.

‡ Adjusted for children gender, breastfeeding initiation, drinking water source, sanitation facility, antenatal care visits.

§* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.