**Figure S1: CONSORT Diagram for the WASH Benefits FUT2 study population**

13,279 compounds assessed for eligibility

Enrollment

Excluded: 7,728 compounds

7,429 compounds excluded to create buﬀer zones 219 compounds did not meet enrollment criteria 80 compounds declined to participate

Allocation

720 clusters created and randomly allocated 5,551 compounds randomly allocated

**Month 3**

54 clusters

406 children

**Month 14**

63 clusters

480 children

**Month 28**

67 clusters

505 children

**Month 3**

54 clusters

408 children

**Month 14**

63 clusters

486 children

**Month 28**

66 clusters

514 children

**Month 3**

55 clusters

425 children

**Month 14**

64 clusters

496 children

**Month 28**

66 clusters

514 children

**Month 3**

54 clusters

406 children

**Month 14**

68 clusters

516 children

**Month 28**

68 clusters

516 children

**Water+Sanitation**

**+Handwashing+Nutrition**

90 clusters

686 households

**Nutrition**

90 clusters

699 households

**Water+Sanitation**

**+ Handwashing**

90 clusters

702 households

**Control**

180 clusters

1,382 households

Subsample Target

Follow-up

**Month 3**

127 children lost to follow-up 0 moved

89 absent

1 withdrew

32 no live birth 5 child death

**Month 14**

74 new children measured 100 children lost to follow- up 9 moved

29 absent

14 withdrew

37 no live birth 11 child death

**Month 28**

25 new children measured 104 children lost to follow- up 28 moved

2 absent

18 withdrew

38 no live birth 18 child death

**Month 3**

131 children lost to follow-up 4 moved

81 absent

3 withdrew

27 no live birth 16 child death

**Month 14**

78 new children measured 107 children lost to follow- up 17 moved

14 absent

23 withdrew

32 no live birth 21 child death

**Month 28**

28 new children measured 142 children lost to follow- up 36 moved

9 absent

42 withdrew

35 no live birth 20 child death

**Month 3**

135 children lost to follow-up 2 moved

93 absent

1 withdrew

23 no live birth 16 child death

**Month 14**

71 new children measured 101 children lost to follow- up 13 moved

17 absent

17 withdrew

30 no live birth 24 child death

**Month 28**

18 new children measured 115 children lost to follow- up 22 moved

4 absent

30 withdrew

32 no live birth 27 child death

**Month 3**

120 children lost to follow-up 4 moved

63 absent

16 withdrew

22 no live birth 15 child death

**Month 14**

110 new children measured 140 children lost to follow-up 14 moved

16 absent

62 withdrew

29 no live birth 19 child death

**Month 28**

0 new children measured 158 children lost to follow-up 35 moved

3 absent

72 withdrew

29 no live birth 19 child death

Subsample Enrollment

**Month 3**

54 clusters

279 children

**Month 14**

63 clusters

380 children

**Month 28**

67 clusters

401 children

**Month 3**

54 clusters

277 children

**Month 14**

63 clusters

379 children

**Month 28**

66 clusters

372 children

**Month 3**

55 clusters

290 children

**Month 14**

64 clusters

395 children

**Month 28**

66 clusters

399 children

**Month 3**

54 clusters

286 children

**Month 14**

68 clusters

376 children

**Month 28**

68 clusters

358 children

**Month 3**

49 children missing FUT2 or EED

**Month 14**

49 children missing FUT2 or EED

**Month 28**

14 children missing FUT2 or EED

**Month 3**

58 children missing FUT2 or EED

**Month 14**

52 children missing FUT2 or EED

**Month 28**

12 children missing FUT2 or EED

**Month 3**

48 children missing FUT2 or EED

**Month 14**

47 children missing FUT2 or EED

**Month 28**

12 children missing FUT2 or EED

**Month 3**

76 children missing FUT2 or EED

**Month 14**

77 children missing FUT2 or EED

**Month 28**

18 children missing FUT2 or EED

Specimen Collection

**Month 3**

54 clusters

219 children

192 mothers

**Month 14**

63 clusters

327 children

291 mothers

**Month 28**

66 clusters

365 children

327 mothers

**Month 3**

55 clusters

242 children

223 mothers

**Month 14**

64 clusters

348 children

323 mothers

**Month 28**

66 clusters

387 children

361 mothers

**Month 3**

53 clusters

210 children

190 mothers

**Month 14**

67 clusters

299 children

273 mothers

**Month 28**

68 clusters

340 children

313 mothers

**Month 3**

54 clusters

230 children

218 mothers

**Month 14**

63 clusters

331 children

310 mothers

**Month 28**

67 clusters

387 children

368 mothers

Analysis