Pulling data from Comcare to R

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# CCS Enrollment Numbers

## # A tibble: 7 x 3  
## `Enrollment status` `Phase 1` `Phase 2`  
## <chr> <int> <int>  
## 1 Discovered no/zero eligible HH members 3986 4330  
## 2 Interviewed-Eligible 3397 3017  
## 3 Clearly vacant house 178 198  
## 4 Unavailable-believed to be eligible 106 92  
## 5 Refused-Eligible 50 68  
## 6 Not Available- Non-eligibility confirmed 55 43  
## 7 Not available-eligbility unconfirmed 29 14

## # A tibble: 1 x 3  
## `Children Enrollment` `Phase 1` `Phase 2`  
## <chr> <int> <int>  
## 1 Interviewed-Eligible 5919 4959

#Household Characteristics

## Stratified by PHASE  
## 1   
## n 3397   
## Number of Children (mean (SD)) 1.74 (0.88)   
## Age Respondent (mean (SD)) 35.58 (10.11)   
## Sex Respondent = Male (%) 763 (22.5)   
## Household Head (HH) = Respondent (%) 782 (23.0)   
## HH Education (%)   
## Graduate (Bachelors degree) 696 (20.7)   
## High school certificate (Grade 11 - 12) 554 (16.5)   
## Illiterate 265 ( 7.9)   
## Intermediate or post high school diploma 79 ( 2.4)   
## Middle school certificate (Grade 5 - 10) 1325 (39.4)   
## Post graduate, profession, or honors 333 ( 9.9)   
## Primary school certificate (through Grade 4) 108 ( 3.2)   
## HH Occupation (%)   
## Clerks 45 ( 1.3)   
## Craft & Related Trade Workers 46 ( 1.4)   
## Elementary Occupation (e.g. Domestic servant, peon, watchman) 386 (11.4)   
## Legislators, Senior Officials & Managers 25 ( 0.7)   
## Mathadi or quarry workers 174 ( 5.1)   
## Other 206 ( 6.1)   
## Plant & Machine Operators and Assemblers 67 ( 2.0)   
## Professionals (e.g. Doctors, Engineers, Bank managers) 386 (11.4)   
## Refused 18 ( 0.5)   
## Skilled Agricultural & Fishery Workers 22 ( 0.6)   
## Skilled Workers and Shop & Market Sales Workers 1348 (39.7)   
## Technicians and Associate Professionals 290 ( 8.5)   
## Unemployed 383 (11.3)   
## Spending (Rupees) (mean (SD)) 17919.76 (11699.04)  
## Drinking Water Source (%)   
## Bottled water 29 ( 0.9)   
## Other 17 ( 0.5)   
## Piped Water 3214 (94.6)   
## Public Tap 136 ( 4.0)   
## Tanker Truck 0 ( 0.0)   
## Unprotected Well/Spring 1 ( 0.0)   
## Water Treatment = Yes (%) 3031 (89.5)   
## Hand Wash Location = Yes (%) 3138 (93.9)   
## Hand Wash Water = Yes (%) 1658 (99.6)   
## Hand Wash Soap = Yes (%) 1653 (99.3)   
## Toilet Type (%)   
## Flush toilet 2818 (83.0)   
## No facility / open defecation 28 ( 0.8)   
## Other 0 ( 0.0)   
## Refused 57 ( 1.7)   
## Sarvajanik toilet (public toilets on the streets) 485 (14.3)   
## Traditional pit latrine 9 ( 0.3)   
## Shared Toilet = Yes (%) 502 (15.4)   
## Stratified by PHASE  
## 2   
## n 3017   
## Number of Children (mean (SD)) 1.64 (0.80)   
## Age Respondent (mean (SD)) 36.69 (10.74)   
## Sex Respondent = Male (%) 748 (24.8)   
## Household Head (HH) = Respondent (%) 761 (25.2)   
## HH Education (%)   
## Graduate (Bachelors degree) 646 (21.7)   
## High school certificate (Grade 11 - 12) 473 (15.9)   
## Illiterate 257 ( 8.6)   
## Intermediate or post high school diploma 82 ( 2.7)   
## Middle school certificate (Grade 5 - 10) 1094 (36.7)   
## Post graduate, profession, or honors 327 (11.0)   
## Primary school certificate (through Grade 4) 103 ( 3.5)   
## HH Occupation (%)   
## Clerks 66 ( 2.2)   
## Craft & Related Trade Workers 39 ( 1.3)   
## Elementary Occupation (e.g. Domestic servant, peon, watchman) 356 (11.8)   
## Legislators, Senior Officials & Managers 31 ( 1.0)   
## Mathadi or quarry workers 77 ( 2.6)   
## Other 141 ( 4.7)   
## Plant & Machine Operators and Assemblers 55 ( 1.8)   
## Professionals (e.g. Doctors, Engineers, Bank managers) 402 (13.3)   
## Refused 23 ( 0.8)   
## Skilled Agricultural & Fishery Workers 19 ( 0.6)   
## Skilled Workers and Shop & Market Sales Workers 1204 (39.9)   
## Technicians and Associate Professionals 255 ( 8.5)   
## Unemployed 349 (11.6)   
## Spending (Rupees) (mean (SD)) 18336.46 (13415.58)  
## Drinking Water Source (%)   
## Bottled water 20 ( 0.7)   
## Other 20 ( 0.7)   
## Piped Water 2824 (93.6)   
## Public Tap 151 ( 5.0)   
## Tanker Truck 2 ( 0.1)   
## Unprotected Well/Spring 0 ( 0.0)   
## Water Treatment = Yes (%) 2664 (88.6)   
## Hand Wash Location = Yes (%) 2739 (91.5)   
## Hand Wash Water = Yes (%) 1607 (99.6)   
## Hand Wash Soap = Yes (%) 1598 (99.1)   
## Toilet Type (%)   
## Flush toilet 2427 (80.4)   
## No facility / open defecation 17 ( 0.6)   
## Other 3 ( 0.1)   
## Refused 24 ( 0.8)   
## Sarvajanik toilet (public toilets on the streets) 542 (18.0)   
## Traditional pit latrine 4 ( 0.1)   
## Shared Toilet = Yes (%) 500 (17.3)   
## Stratified by PHASE  
## p test  
## n   
## Number of Children (mean (SD)) <0.001   
## Age Respondent (mean (SD)) <0.001   
## Sex Respondent = Male (%) 0.030   
## Household Head (HH) = Respondent (%) 0.043   
## HH Education (%) 0.227   
## Graduate (Bachelors degree)   
## High school certificate (Grade 11 - 12)   
## Illiterate   
## Intermediate or post high school diploma   
## Middle school certificate (Grade 5 - 10)   
## Post graduate, profession, or honors   
## Primary school certificate (through Grade 4)   
## HH Occupation (%) <0.001   
## Clerks   
## Craft & Related Trade Workers   
## Elementary Occupation (e.g. Domestic servant, peon, watchman)   
## Legislators, Senior Officials & Managers   
## Mathadi or quarry workers   
## Other   
## Plant & Machine Operators and Assemblers   
## Professionals (e.g. Doctors, Engineers, Bank managers)   
## Refused   
## Skilled Agricultural & Fishery Workers   
## Skilled Workers and Shop & Market Sales Workers   
## Technicians and Associate Professionals   
## Unemployed   
## Spending (Rupees) (mean (SD)) 0.261   
## Drinking Water Source (%) 0.136   
## Bottled water   
## Other   
## Piped Water   
## Public Tap   
## Tanker Truck   
## Unprotected Well/Spring   
## Water Treatment = Yes (%) 0.270   
## Hand Wash Location = Yes (%) <0.001   
## Hand Wash Water = Yes (%) 1.000   
## Hand Wash Soap = Yes (%) 0.503   
## Toilet Type (%) <0.001   
## Flush toilet   
## No facility / open defecation   
## Other   
## Refused   
## Sarvajanik toilet (public toilets on the streets)   
## Traditional pit latrine   
## Shared Toilet = Yes (%) 0.050

## Stratified by PHASE  
## 1 2   
## n 5378 4446   
## Houshold Size (mean (SD)) 5.27 (2.36) 4.98 (1.98)   
## Chuld age (mean (SD)) 8.36 (4.31) 8.48 (4.35)   
## Child Under 5 = Yes (%) 1378 (30.7) 1101 (30.1)   
## Child Time in Navi Mumbai (mean (SD)) 7.31 (4.30) 7.33 (4.28)   
## Child Sex = Male (%) 2821 (52.5) 2334 (52.5)   
## Child Schooling (%)   
## DK/Refused 4 ( 0.1) 6 ( 0.1)   
## Never attended school 57 ( 1.1) 60 ( 1.3)   
## Not of school age 718 (13.4) 515 (11.6)   
## Yes 4599 (85.5) 3865 (86.9)   
## Child Education (%)   
## Declined to answer 2 ( 0.0) 0 ( 0.0)   
## High school certificate (Grade 11 - 12) 132 ( 2.9) 160 ( 4.1)   
## Illiterate 954 (20.7) 811 (21.0)   
## Middle school certificate (Grade 5 - 10) 1980 (43.1) 1596 (41.3)   
## Primary school certificate (through Grade 4) 1531 (33.3) 1297 (33.6)   
## Typhoid Vaccine Campaign = Yes (%) 3021 (59.4) 106 ( 2.4)   
## Other Typhoid Vaccine = Yes (%) 705 (13.8) 758 (17.8)   
## Fever in last month = Yes (%) 865 (16.1) 762 (17.1)   
## 3 Day Fever = Yes (%) 437 (50.5) 361 (47.4)   
## Fever Treatment = Yes (%) 800 (92.5) 706 (92.7)   
## Study Site Treatment Location = Yes (%) 28 ( 3.5) 23 ( 3.3)   
## Stratified by PHASE  
## p test  
## n   
## Houshold Size (mean (SD)) <0.001   
## Chuld age (mean (SD)) 0.195   
## Child Under 5 = Yes (%) 0.541   
## Child Time in Navi Mumbai (mean (SD)) 0.776   
## Child Sex = Male (%) 0.983   
## Child Schooling (%) 0.027   
## DK/Refused   
## Never attended school   
## Not of school age   
## Yes   
## Child Education (%) 0.011   
## Declined to answer   
## High school certificate (Grade 11 - 12)   
## Illiterate   
## Middle school certificate (Grade 5 - 10)   
## Primary school certificate (through Grade 4)   
## Typhoid Vaccine Campaign = Yes (%) <0.001   
## Other Typhoid Vaccine = Yes (%) <0.001   
## Fever in last month = Yes (%) 0.181   
## 3 Day Fever = Yes (%) 0.224   
## Fever Treatment = Yes (%) 0.974   
## Study Site Treatment Location = Yes (%) 0.907

#Basic Frequencies

## # A tibble: 6,414 x 126  
## start end today deviceid PHASE uhp psu hhid intervid super  
## <chr> <chr> <date> <chr> <dbl> <dbl> <dbl> <chr> <chr> <chr>  
## 1 2020… 2020… 2020-01-30 c59fa0e… 2 21 2.10e5 3-21… Pooja S… Vika…  
## 2 2019… 2019… 2019-12-21 9584166… 1 9 9.01e4 3-09… Rajesh … Smit…  
## 3 2019… 2019… 2019-11-04 601620e… 1 5 5.01e4 3-05… Sitaram… Mang…  
## 4 2019… 2019… 2019-11-30 c59fa0e… 1 3 3.02e4 3-03… Purna B… Mang…  
## 5 2019… 2019… 2019-06-07 2bc1768… 1 9 9.00e4 2-09… Sindhu … Suji…  
## 6 2019… 2019… 2019-02-20 601620e… 2 21 2.10e5 2-50… 7 2   
## 7 2019… 2019… 2019-11-26 c59fa0e… 2 17 1.70e5 3-17… Pooja S… Mang…  
## 8 2019… 2019… 2019-03-09 e518651… 1 8 8.01e4 2-59… Sumit A… Vika…  
## 9 2020… 2020… 2020-01-09 c59fa0e… 2 14 1.40e5 3-14… Pooja S… Suji…  
## 10 2020… 2020… 2020-03-18 601620e… 1 5 5.01e4 4-05… Sitaram… Smit…  
## # … with 6,404 more rows, and 116 more variables: status <chr>, children <dbl>,  
## # liveyr <dbl>, livemon <dbl>, liveday <dbl>, numhh <dbl>, ve\_agerel <dbl>,  
## # ve\_sexresp <dbl>, ve\_edu <dbl>, ses\_ctkocu <dbl>, ses\_ctkocusp <chr>,  
## # ve\_hhead <dbl>, ve\_hheadedu <dbl>, ses\_hhhocu <dbl>, ses\_hhhocusp <chr>,  
## # ses\_watsrc <dbl>, ses\_watsrc\_sp <chr>, ses\_watsrcloc <dbl>,  
## # ses\_watsafe <dbl>, ses\_wtrt\_a <dbl>, ses\_wtrt\_b <dbl>, ses\_wtrt\_c <dbl>,  
## # ses\_wtrt\_d <dbl>, ses\_wtrt\_e <dbl>, ses\_wtrt\_f <dbl>, ses\_wtrt\_g <dbl>,  
## # ses\_wtrt\_y <dbl>, ses\_wtrt\_z <dbl>, ses\_wtrtsp <chr>, ses\_watstore <dbl>,  
## # ses\_watcont <dbl>, ses\_watcontsp <chr>, ses\_watcontlid <dbl>,  
## # ses\_hwplace <dbl>, ses\_hwstat <dbl>, ses\_hwwater <dbl>, ses\_hwsoap\_a <dbl>,  
## # ses\_hwsoap\_b <dbl>, ses\_hwsoap\_z <dbl>, ses\_toitype <dbl>,  
## # ses\_toitypesp <chr>, ses\_toiletshare <dbl>, ses\_toilet <dbl>,  
## # ses\_toiletsp <chr>, ses\_hhitems\_a <dbl>, ses\_hhitems\_b <dbl>,  
## # ses\_hhitems\_c <dbl>, ses\_hhitems\_d <dbl>, ses\_hhitems\_e <dbl>,  
## # ses\_hhitems\_f <dbl>, ses\_hhitems\_g <dbl>, ses\_hhitems\_h <dbl>,  
## # ses\_hhitems\_i <dbl>, ses\_hhitems\_j <dbl>, ses\_hhitems\_k <dbl>,  
## # ses\_hhitems\_l <dbl>, ses\_hhitems\_m <dbl>, ses\_hhitems\_n <dbl>,  
## # ses\_hhitems\_o <dbl>, ses\_hhitems\_p <dbl>, ses\_hhitems\_q <dbl>,  
## # ses\_hhitems\_r <dbl>, ses\_hhitems\_s <dbl>, ses\_hhitems\_t <dbl>,  
## # ses\_hhitems\_u <dbl>, ses\_hhitems\_v <dbl>, ses\_hhitems\_w <dbl>,  
## # ses\_hhitems\_x <dbl>, ses\_hhitems\_y <dbl>, ses\_hhitems\_aa <dbl>,  
## # ses\_hhitems\_z <dbl>, ses\_hhitems\_zz <dbl>, ses\_cookfuel <dbl>,  
## # ses\_floor <dbl>, ses\_floorsp <chr>, ses\_roof <dbl>, ses\_roofsp <chr>,  
## # ses\_walls <dbl>, ses\_wallssp <chr>, ses\_rooms <dbl>, ses\_landown <dbl>,  
## # ses\_agland <dbl>, ses\_aglandunit\_dec <dbl>, ses\_aglandunit <chr>,  
## # ses\_animals\_a <dbl>, ses\_animals\_b <dbl>, ses\_animals\_c <dbl>,  
## # ses\_animals\_d <dbl>, ses\_animals\_e <dbl>, ses\_animals\_f <dbl>,  
## # ses\_animals\_z <dbl>, ses\_animals\_x <dbl>, ses\_bankacct <dbl>,  
## # ses\_bplcard <dbl>, ses\_staff <dbl>, ses\_spend <dbl>, ses\_spendnr <dbl>,  
## # ses\_elec\_a <dbl>, ses\_elec\_b <dbl>, ses\_elec\_c <dbl>, …

## # A tibble: 15 x 4  
## hosp\_studysite child\_under5 PHASE n  
## <dbl> <dbl> <dbl> <int>  
## 1 0 0 1 126  
## 2 0 0 2 108  
## 3 0 1 1 36  
## 4 0 1 2 20  
## 5 0 NA 2 1  
## 6 1 0 1 49  
## 7 1 0 2 41  
## 8 1 1 1 18  
## 9 1 1 2 4  
## 10 NA 0 1 4461  
## 11 NA 0 2 3666  
## 12 NA 1 1 1216  
## 13 NA 1 2 1115  
## 14 NA NA 1 13  
## 15 NA NA 2 4

## # A tibble: 15 x 4  
## child\_under5 PHASE hosp n  
## <dbl> <dbl> <dbl> <int>  
## 1 0 1 0 4452  
## 2 0 1 1 175  
## 3 0 1 99 9  
## 4 0 2 0 3664  
## 5 0 2 1 149  
## 6 0 2 99 2  
## 7 1 1 0 1215  
## 8 1 1 1 54  
## 9 1 1 99 1  
## 10 1 2 0 1113  
## 11 1 2 1 24  
## 12 1 2 99 2  
## 13 NA 1 0 13  
## 14 NA 2 0 4  
## 15 NA 2 1 1

## Mapping Hospital use

