

// Linear Regression significant PCs

Year 2007 – PC1,2,3,6

Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	9	0.92952
'Per_new_RRorMDR_TBres'	5	0.51382
'Per_TBwithHIV_ART'	4	0.55873
'Per_TBwithHIV'	1	0.51429
'Pop'	10	0.6475
'Per_TBwithHIV_tested'	2	0.54602
'Pop'	10	0.58442
'Per_success_treat_oldTBcases'	7	0.63738

Year 2008 – PC1,2,6

Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	9	0.98877
'Per_new_RRorMDR_TBres'	5	0.8547
'Per_TBwithHIV_CPT'	3	0.77217
'Per_success_treat_oldTBcases'	7	0.88266
'No_RRorMDR_TBres'	6	0.82987
'Per_TBwithHIV_tested'	2	0.52668

Year 2009 – all

Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	9	0.98803
'Per_TBwithHIV_ART'	4	0.54724
'Per_TBwithHIV_CPT'	3	0.59372
'Per_TBwithHIV_tested'	2	0.54857

Year 2010– PC2,5

Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	11	0.99003
'Per_TBwithHIV_CPT'	3	0.7703
'Healthposts_density'	9	0.77127
'Healthposts_density'	9	0.58804
'Per_TBwithHIV_ART'	4	0.7879
'Per_success_treat_oldTBcases'	7	0.57369

Year 2011 – PC2,3,5

Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	9	0.97485
'Per_TBwithHIV_CPT'	3	0.81976
'Per_new_RRorMDR_TBres '	5	0.78275
'Per_success_treat_oldTBcases '	7	0.53418
'No_RRorMDR_TBres '	6	0.5367
'Per_TBwithHIV_ART'	4	0.58978

Year 2012 – PC2,3,4

Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	11	0.99778
'Per_TBwithHIV_CPT'	3	0.60038
'No_RRorMDR_TBres '	6	0.82584
'Per_success_treat_oldTBcases '	7	0.69371

Year 2013 – PC1,3,9

Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	13	0.97121
'Per_TBwithHIV_CPT'	3	0.73501
'Pop_under_15'	15	0.46253
'Heathcentres_density'	11	0.52651
'Per_success_treat_oldTBcases '	7	0.59657
'Hospital_density'	9	0.5247
'No_RRorMDR_TBres '	6	0.77644
'Healthposts_density'	10	0.4961
'Per_TBwithHIV_tested'	2	0.41443

// LASSO significant PCs

Year 2007 – all

Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	9	0.92952
'Per_new_RRorMDR_TBres '	5	0.51382
'Per_TBwithHIV_ART'	4	0.55873
'Per_TBwithHIV'	1	0.51429
'Pop'	10	0.6475
'Per_TBwithHIV_tested'	2	0.54602
'Pop'	10	0.58442

'Per_success_treat_oldTBcases'	7	0.63738
Year 2008 – all except PC3		
Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	9	0.98877
'Per_new_RRorMDR_TBres'	5	0.8547
'Per_TBwithHIV_CPT'	3	0.77217
'Per_success_treat_oldTBcases'	7	0.88266
'No_RRorMDR_TBres'	6	0.82987
'Per_TBwithHIV_tested'	2	0.52668

Year 2009 – all		
Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	9	0.98803
'Per_TBwithHIV_ART'	4	0.54724
'Per_TBwithHIV_CPT'	3	0.59372
'Per_TBwithHIV_tested'	2	0.54857

Year 2010 – all except PC1,3,4,6		
Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	11	0.99003
'Per_TBwithHIV_CPT'	3	0.7703
'Healthposts_density'	9	0.77127
'Healthposts_density'	9	0.58804
'Per_TBwithHIV_ART'	4	0.7879
'Per_success_treat_oldTBcases'	7	0.57369

Year 2011 – all		
Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	9	0.97485
'Per_TBwithHIV_CPT'	3	0.81976
'Per_new_RRorMDR_TBres'	5	0.78275
'Per_success_treat_oldTBcases'	7	0.53418
'No_RRorMDR_TBres'	6	0.5367
'Per_TBwithHIV_ART'	4	0.58978

Year 2012 – all		
Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	11	0.99778
'Per_TBwithHIV_CPT'	3	0.60038
'No_RRorMDR_TBres'	6	0.82584
'Per_success_treat_oldTBcases'	7	0.69371

Year 2013 – all except PC2,4,6,7,8

Variable	Variable_Col	PC_Loading
'Per_childbelow5_underweight'	13	0.97121
'Per_TBwithHIV_CPT'	3	0.73501
'Pop_under_15'	15	0.46253
'Healthcentres_density'	11	0.52651
'Per_success_treat_oldTBcases'	7	0.59657
'Hospital_density'	9	0.5247
'No_RRorMDR_TBres'	6	0.77644
'Healthposts_density'	10	0.4961
'Per_TBwithHIV_tested'	2	0.41443

// LASSO significant variables

Year 2007 -- 2,4,6,9,11,12

'Per_TBwithHIV_tested'
 'Per_TBwithHIV_ART'
 'No_RRorMDR_TBres'
 'Per_childbelow5_underweight'
 'Pop_under_15'
 'Pop_over_60'

Year 2008 -- 2,4,11,12

'Per_TBwithHIV_tested'
 'Per_TBwithHIV_ART'
 'Pop_under_15'
 'Pop_over_60'

Year 2009 -- all

'Per_TBwithHIV'
 'Per_TBwithHIV_tested'
 'Per_TBwithHIV_CPT'
 'Per_TBwithHIV_ART'
 'Per_new_RRorMDR_TBres'
 'No_RRorMDR_TBres'
 'Per_success_treat_oldTBcases'
 'Per_success_treat_newTBcases'
 'Per_childbelow5_underweight'
 'Pop'
 'Pop_under_15'
 'Pop_over_60'

Year 2010 -- 1,2,3,6,7,8,11,12,13,14

'Per_TBwithHIV'
'Per_TBwithHIV_tested'
'Per_TBwithHIV_CPT'
'No_RRorMDR_TBres'
'Per_success_treat_oldTBcases'
'Per_success_treat_newTBcases'
'Per_childbelow5_underweight'
'Pop'
'Pop_under_15'
'Pop_over_60'

Year 2011 -- 2,4,5,6,8,9,11,12

'Per_TBwithHIV_tested'
'Per_TBwithHIV_ART'
'Per_new_RRorMDR_TBres'
'No_RRorMDR_TBres'
'Per_success_treat_newTBcases'
'Per_childbelow5_underweight'
'Pop_under_15'
'Pop_over_60'

Year 2012 -- 2,3,4,6,8,10,11,12

'Per_TBwithHIV_tested'
'Per_TBwithHIV_CPT'
'Per_TBwithHIV_ART'
'No_RRorMDR_TBres'
'Per_success_treat_newTBcases'
'Life_expectancy'
'Per_childbelow5_underweight'
'Pop'

Year 2013 -- 2,11,12

'Per_TBwithHIV_tested'
'Heathcentres_density'
'Life_expectancy'