

**Methodology to determine the REF weighting table and
REF count table for 2008**

[Base 2005, Use 2008]

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1. Introduction and purpose of this document

This document sets out the methodology used to determine the inflation factors that were used to adjust the REF weighting table (REFWT)¹. The inflation adjustment has led to a change in the cost hierarchy of conditions, and since only the most expensive multiple condition is counted for an individual, the count table was recalculated and the industry community rate for 2008 was estimated.

2. Adjustment to REFWT for inflation

2.1. Inflation estimate

During October 2007 Discovery, Metropolitan Health Group, Old Mutual, and Medscheme administrators submitted inflation estimates after applying the methods set out in Annexure A (page 5).

These four inflation estimates for each of DTP Hospital, CDL Medicine and Related Diagnosis & Treatment costs, were weighted by the number of beneficiaries on which the respective estimates were based. The weighted average for these estimates is presented in Table 1 (page 2).

¹ Previously the REF weighting table was called the REF contribution table (REFCT). The Medical Schemes Amendment Bill that will be introduced to parliament soon refers to the table as a weighting table.



Table 1: Weighted inflation estimate

Weighted Inflation estimates submitted to the CMS for use in 2008				
Weighted average industry inflation estimate for the REF weighting table , representing 4,699,952 beneficiaries, weighted by the total number of lives on which the respective estimates were based.				
Year	Comment	DTP Hospital	CDL Medicine	Related Diagnosis & Treatment
2005 – 2006	Previous Estimate	6.50%	4.90%	10.85%
2005 – 2006	Actual	9.32%	5.58%	9.62%
2006 – 2007	Previous Estimate	7.50%	8.16%	4.90%
2006 – 2007	Actual	7.33%	6.40%	5.40%
2007 – 2008	Current Estimate	8.74%	5.91%	7.04%

2.2. REF Weighting table for 2008 (Base 2005, Use 2008) (REFWT 2008)

The weighted inflation estimates for each of the cost components were applied to calculate the factor that was applied to each of the cost components, and are presented in Table 2.

Table 2: Factors applied to 2007 table to generate REFWT 2008

Factors applied in the adjustment of the 2007 table for the creation of the 2008 Table			
	DTP Hospital	CDL Medicine	Related Diagnosis & Treatment
Inflation factor used for 2005-2007	1.175200000	1.142000000	1.149900000
Inflation factor used for 2005-2007 based on actual values	1.173285684	1.123391115	1.1553948
Inflation factor for 2005-2008 based on known actual values & current estimate	1.27581298	1.189839252	1.23672286
Adjustment required to 2007 table	1.085613496	1.041890764	1.075504705

The full REFWT 2008 is presented in Annexure B (page 6), indicating the new costs while the cost hierarchy for each of the REF risk factors is presented in Annexure C on page 8. Due to the differential inflation rates applied for the respective cost elements, the estimate for BMD is now slightly higher than CMY while the reverse was true in 2007 (Table 3, page 3).



Table 3: Change in cost hierarchy for BMD and CMY

Changes in cost hierarchy					
2007			2008		
Risk factor	Rand value	Rank	Risk factor	Rand value	Rank
CMY	1,173.80	9	BMD	1,248.04	9
BMD	1,178.97	8	CMY	1,260.09	8

3. Adjustment to Count 2008 table

Using the 2005 pricing study data, the revised cost hierarchy referred to above, was applied to the multiple diseases rules and the expected count rates for each of the risk factors were re-calculated - the revised count table for 2008 is attached in Annexure C (page 8). The small changes to the rates are presented in Annexure E (page 11). Note that the rates for HIV, HAE, MSS, and MAT have not been changed. The rates for these specific conditions have been influenced by information obtained outside of the 2005 pricing study and this work would not be repeated now during the shadow period².

4. Estimated industry community rate for 2008

The target population used to estimate the 2008 industry community rate is based on the September 2007 statutory returns, and is presented in Annexure F (page 13)

Applying the Count 2008 table and the REFWT 2008 tables to the September 2007 target population, the community rate for 2008 is estimated to be R 278.28 pbpm. Note that this estimate differs from previously published estimate of R276.65 pbpm and is because the previous estimate was based on the 2006 target population and the Count 2007 table.

² See "Methodology for the Determination of the Risk Equalisation Fund Contribution Table 2007" available at:

http://www.medicalschemes.com/publications/ZipPublications/Risk%20Equalisation%20Fund/RE_TAP_recommendation_2007.pdf





Annexure A: Methodology to Determine the Inflation Estimates used to Adjust the REF Contribution Table

Note prepared for RETAP by Brett Mill
October 2007

This document sets out the methodology used to determine the inflation factors to be used in adjusting the REF contribution table and the industry community rate.

Three inflation components are determined:

1. DTP Hospital Costs

Step 1: Calculate the actual year-on-year change in the per life per month DTP Hospital Cost.

Step 2: Quantify the impact of the change in the age and gender profile of the scheme over the year. This can be done by using the following steps:

- a) Calculate a per life per month DTP Hospital Cost per age band and gender for the prior year.
- b) Calculate the weighted average DTP Hospital Cost by multiplying the prior year exposure per age band and gender by the per life per month DTP Hospital Cost per age band and gender calculated in Step 2a) and dividing the result by the total exposure.
- c) Redo the calculation Step 2b) using the current year exposure per age band and gender.
- d) The impact of the actual change in the age and gender profile is calculated as the per life per month DTP Hospital Cost calculated in Step 2c) divided by the per life per month DTP Hospital Cost calculated in Step 2b) minus 1.

Step 3: The REF inflation factor is equal to the increase calculated in Step 1 less the demographic change effect calculated in Step 2.

2. CDL Medicine Costs

The REF inflation factor is calculated as the year-on-year change in the CDL Medicine Cost per claimant per month.

The CDL Medicine Cost per claimant per month is calculated as the sum of the CDL Medicine Costs divided by the sum of the CDL claimants in each month.

3. Related Diagnosis and Treatment Costs

The REF inflation factor is set as the average NHRPL price increase for Related Diagnosis and Treatment Costs plus a 0.5% margin to allow for increased utilization.



Annexure B: REF Weighting table [Base 2005, Use 2008]

REF Contribution Table [Base 2005, Use 2008] Combined												278.30	The actual Industry Community Rate for each payment period is determined according to the REF Grids that are approved for shadow payments.			
Per Beneficiary Per Month		Expected Industry REF Community Rate														
Age Bands	No CDL Diseases NON	Chronic Disease List (CDL) Conditions														
		ADS	AST	BCE	BMD	CHF	CMY	COP	CRF	CSD	DBI	DM1	DM2	DYS	EPL	GLC
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Under 1	548.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-4	94.94	248.47	417.29	585.54	1,342.98	1,355.03	1,355.03	1,547.10	17,149.40	1,378.85	950.64	1,593.41	558.35	727.48	843.50	330.00
5-9	43.79	197.31	366.14	534.38	1,291.83	1,303.88	1,303.88	1,495.94	17,098.24	1,327.69	899.48	1,542.26	507.19	676.33	792.35	278.84
10-14	40.51	194.04	362.86	531.11	1,288.55	1,300.60	1,300.60	1,492.67	17,094.96	1,324.41	896.21	1,538.98	503.92	673.05	789.07	275.57
15-19	59.96	213.48	382.30	550.55	1,307.99	1,320.04	1,320.04	1,512.11	17,114.41	1,343.86	915.65	1,558.42	523.36	692.49	808.51	295.01
20-24	94.87	248.39	417.22	585.46	1,342.91	1,354.96	1,354.96	1,547.02	17,149.32	1,378.77	950.57	1,593.34	558.28	727.41	843.43	329.92
25-29	133.72	287.25	456.07	624.32	1,381.76	1,393.81	1,393.81	1,585.88	17,188.17	1,417.62	989.42	1,632.19	597.13	766.26	882.28	368.78
30-34	154.30	307.83	476.65	644.89	1,402.34	1,414.39	1,414.39	1,606.45	17,208.75	1,438.20	1,010.00	1,652.77	617.71	786.84	902.86	389.36
35-39	160.14	313.66	482.49	650.73	1,408.17	1,420.22	1,420.22	1,612.29	17,214.59	1,444.04	1,015.83	1,658.61	623.54	792.67	908.70	395.19
40-44	179.73	333.26	502.08	670.33	1,427.77	1,439.82	1,439.82	1,631.89	17,234.19	1,463.64	1,035.43	1,678.20	643.14	812.27	928.29	414.79
45-49	208.58	362.10	530.93	699.17	1,456.62	1,468.67	1,468.67	1,660.73	17,263.03	1,492.48	1,064.28	1,707.05	671.98	841.12	957.14	443.63
50-54	263.09	416.61	585.44	753.68	1,511.13	1,523.18	1,523.18	1,715.24	17,317.54	1,546.99	1,118.78	1,761.56	726.49	895.62	1,011.65	498.14
55-59	338.65	492.17	660.99	829.24	1,586.68	1,598.73	1,598.73	1,790.80	17,393.10	1,622.55	1,194.34	1,837.12	802.05	971.18	1,087.20	573.70
60-64	455.06	608.58	777.40	945.65	1,703.09	1,715.14	1,715.14	1,907.21	17,509.51	1,738.96	1,310.75	1,953.53	918.46	1,087.59	1,203.61	690.11
65-69	569.51	723.04	891.86	1,060.11	1,817.55	1,829.60	1,829.60	2,021.67	17,623.96	1,853.41	1,425.21	2,067.98	1,032.92	1,202.05	1,318.07	804.57
70-74	655.49	809.02	977.84	1,146.09	1,903.53	1,915.58	1,915.58	2,107.65	17,709.95	1,939.40	1,511.19	2,153.96	1,118.90	1,288.03	1,404.05	890.55
75-79	698.32	851.84	1,020.67	1,188.91	1,946.36	1,958.41	1,958.41	2,150.47	17,752.77	1,982.22	1,554.02	2,196.79	1,161.72	1,330.86	1,446.88	933.37
80-84	648.00	801.52	970.35	1,138.59	1,896.03	1,908.08	1,908.08	2,100.15	17,702.45	1,931.90	1,503.69	2,146.47	1,111.40	1,280.53	1,396.56	883.05
85+	581.00	734.52	903.34	1,071.59	1,829.03	1,841.08	1,841.08	2,033.15	17,635.45	1,864.90	1,436.69	2,079.47	1,044.40	1,213.53	1,329.55	816.05



Combined Female and Male table for use in Shadow Year 2008

											HIV/ AIDS	Modifier for number of chronic conditions						
HAE	HYL	HYP	IBD	IHD	MSS	PAR	RHA	SCZ	SLE	TDH	HIV	Number of Conditions	2	3	4 or more			
17	18	19	20	21	22	23	24	25	26	27	28	CC2	CC3	CC4				
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
11,272.11	330.46	273.79	539.31	989.21	9,400.09	1,019.07	493.92	761.18	1,451.60	184.08	1,147.61							
11,220.95	279.30	222.63	488.16	938.05	9,348.93	967.91	442.77	710.03	1,400.44	132.93	1,096.46							
11,217.68	276.03	219.35	484.88	934.78	9,345.66	964.64	439.49	706.75	1,397.17	129.65	1,093.18							
11,237.12	295.47	238.80	504.32	954.22	9,365.10	984.08	458.93	726.19	1,416.61	149.09	1,112.62							
11,272.04	330.39	273.71	539.24	989.13	9,400.02	1,018.99	493.85	761.11	1,451.52	184.01	1,147.54							
11,310.89	369.24	312.57	578.09	1,027.99	9,438.87	1,057.85	532.70	799.96	1,490.38	222.86	1,186.39							
11,331.47	389.82	333.14	598.67	1,048.56	9,459.45	1,078.42	553.28	820.54	1,510.95	243.44	1,206.97							
11,337.30	395.65	338.98	604.50	1,054.40	9,465.28	1,084.26	559.12	826.38	1,516.79	249.27	1,212.81							
11,356.90	415.25	358.58	624.10	1,074.00	9,484.88	1,103.86	578.71	845.97	1,536.39	268.87	1,232.40							
11,385.75	444.10	387.42	652.95	1,102.84	9,513.72	1,132.70	607.56	874.82	1,565.23	297.72	1,261.25							
11,440.25	498.60	441.93	707.46	1,157.35	9,568.23	1,187.21	662.07	929.33	1,619.74	352.23	1,315.76							
11,515.81	574.16	517.49	783.01	1,232.91	9,643.79	1,262.77	737.62	1,004.88	1,695.30	427.78	1,391.31							
11,632.22	690.57	633.90	899.42	1,349.32	9,760.20	1,379.18	854.03	1,121.29	1,811.71	544.19	1,507.73							
11,746.68	805.03	748.35	1,013.88	1,463.77	9,874.66	1,493.64	968.49	1,235.75	1,926.17	658.65	1,622.18							
11,832.66	891.01	834.34	1,099.86	1,549.76	9,960.64	1,579.62	1,054.47	1,321.73	2,012.15	744.63	1,708.16							
11,875.49	933.84	877.16	1,142.69	1,592.58	10,003.46	1,622.44	1,097.30	1,364.56	2,054.97	787.46	1,750.99							
11,825.16	883.51	826.84	1,092.36	1,542.26	9,953.14	1,572.12	1,046.98	1,314.23	2,004.65	737.13	1,700.67							
11,758.16	816.51	759.84	1,025.36	1,475.26	9,886.14	1,505.12	979.97	1,247.23	1,937.65	670.13	1,633.66							
												All Ages			208.74	570.82	1,157.65	
												Amount is per beneficiary per month. Add to amounts obtained from Columns 1 to 28. Not applicable to Under 1's.						
												Modifier for Maternity						
												MAT						
												All Ages				19,007.15		
												Amount is per delivery (as defined). Use only once per delivery, not monthly.						

Modifiers



Annexure C: Cost hierarchy for REF risk factors in the REF Count 2008 table

Sorted by Rank		
Condition	Amount	Rank
CRF	17,054.45	1
HAE	11,177.16	2
MSS	9,305.14	3
DM1	1,498.47	4
COP	1,452.15	5
SLE	1,356.65	6
CSD	1,283.90	7
CMY	1,260.09	8
BMD	1,248.04	9
HIV	1,052.67	10
PAR	924.12	11
IHD	894.26	12
DBI	855.69	13
EPL	748.56	14
SCZ	666.24	15
DYS	632.54	16
BCE	490.59	17
DM2	463.40	18
IBD	444.37	19
RHA	398.98	20
AST	322.35	21
HYL	235.51	22
GLC	235.05	23
HYP	178.84	24
ADS	153.52	25
TDH	89.14	26

Sorted alphabetically		
Condition	Amount	Rank
ADS	153.52	25
AST	322.35	21
BCE	490.59	17
BMD	1,248.04	9
CMY	1,260.09	8
COP	1,452.15	5
CRF	17,054.45	1
CSD	1,283.90	7
DBI	855.69	13
DM1	1,498.47	4
DM2	463.40	18
DYS	632.54	16
EPL	748.56	14
GLC	235.05	23
HAE	11,177.16	2
HIV	1,052.67	10
HYL	235.51	22
HYP	178.84	24
IBD	444.37	19
IHD	894.26	12
MSS	9,305.14	3
PAR	924.12	11
RHA	398.98	20
SCZ	666.24	15
SLE	1,356.65	6
TDH	89.14	26



Annexure D: REF Count 2008 table

Combined REF Grid Count in REF Count table 2008																
Rate per 1,000 Beneficiaries in each Age Band																
Age Bands	No CDL Diseases NON	Chronic Disease List (CDL) Conditions														
		ADS	AST	BCE	BMD	CHF	CMY	COP	CRF	CSD	DBI	DM1	DM2	DYS	EPL	GLC
Under 1	1,000.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-4	973.910	0.006	22.201	0.057	0.009		0.076	0.449	0.006	0.003	-	0.192	0.011	0.004	1.087	0.005
5-9	970.740	0.009	22.828	0.034	0.021		0.052	0.344	0.006	0.003	0.010	0.560	0.034	0.012	1.935	0.002
10-14	977.643	0.009	16.840	0.035	0.057		0.037	0.221	0.010	0.010	0.010	0.999	0.074	0.019	2.360	0.013
15-19	981.912	0.022	11.682	0.021	0.230		0.069	0.191	0.024	0.053	0.012	1.282	0.215	0.023	2.921	0.024
20-24	981.663	0.009	7.786	0.006	0.484		0.069	0.139	0.072	0.104	0.020	1.782	0.407	0.046	3.112	0.079
25-29	973.930	0.007	7.334	0.019	0.563		0.177	0.161	0.108	0.164	0.019	1.745	0.874	0.061	2.330	0.099
30-34	950.117	0.020	10.374	0.028	0.706		0.485	0.315	0.155	0.191	0.008	1.983	2.534	0.146	2.662	0.136
35-39	922.014	0.037	12.181	0.033	0.866		1.027	0.504	0.184	0.211	0.011	2.404	6.134	0.237	3.017	0.264
40-44	886.598	0.040	13.385	0.060	0.819		2.280	0.867	0.291	0.200	0.019	3.180	12.168	0.360	3.657	0.491
45-49	837.853	0.028	14.548	0.046	1.020		3.931	1.616	0.374	0.276	0.016	3.931	19.804	0.803	3.978	0.934
50-54	771.911	0.040	16.281	0.066	1.002		6.768	3.315	0.567	0.347	0.004	4.484	27.392	1.536	4.730	1.866
55-59	700.037	0.068	17.779	0.128	0.963		10.586	6.340	0.808	0.326	0.029	5.259	34.066	2.940	5.107	2.882
60-64	629.494	0.123	20.241	0.165	1.076		15.528	11.441	1.038	0.563	0.015	5.922	38.197	5.446	5.458	4.347
65-69	555.253	0.071	21.215	0.169	1.030		25.801	17.908	1.035	0.474	0.009	6.464	41.983	8.007	6.652	7.192
70-74	498.965	0.101	22.769	0.142	0.673		38.112	24.697	0.991	0.443	0.017	6.403	42.295	11.901	7.463	9.821
75-79	479.045	0.162	20.403	0.155	0.755		53.211	26.482	0.768	0.315	-	5.986	39.289	15.420	7.546	12.342
80-84	474.891	0.025	18.000	0.074	0.453		75.826	25.614	0.416	0.272	-	4.696	30.632	15.164	6.787	16.497
85+	528.970	0.127	11.637	0.025	0.313		101.930	18.179	0.516	0.093	-	2.683	20.100	14.523	5.831	18.035
Total by Condition*	885.478	0.031	14.673	0.051	0.565	0.000	4.984	2.700	0.260	0.175	0.012	2.514	10.377	1.306	3.283	1.243



Based on REF Study 2005

												Total by Age Band	Multiple CDL Conditions			Maternity (Monthly per 1,000 Female Lives)	
HAE	HYL	HYP	IBD	IHD	MSS	PAR	RHA	SCZ	SLE	TDH	HIV/AIDS		HIV	2 CC2	3 CC3	4 or more CC4	MAT
-	-	-	-	-	-	-	-	-	-	-	-	-	1,000.00	-	-	-	-
0.012	0.001	0.028	0.008	0.002	-	-	0.015	0.005	0.002	0.052	1.859	1.859	1,000.00	0.258	-	-	-
0.032	0.029	0.030	0.005	0.001	0.004	-	0.032	0.012	0.003	0.051	3.211	3.211	1,000.00	0.267	0.006	0.003	-
0.013	0.106	0.068	0.029	0.007	0.008	-	0.070	0.020	0.025	0.142	1.175	1.175	1,000.00	0.257	0.008	0.002	0.029
0.016	0.320	0.201	0.039	0.019	0.023	-	0.127	0.089	0.037	0.322	0.126	0.126	1,000.00	0.379	0.022	0.004	1.249
0.027	0.632	0.867	0.118	0.031	0.053	0.007	0.214	0.289	0.081	0.672	1.231	1.231	1,000.00	0.795	0.086	0.006	5.301
0.017	1.167	2.507	0.218	0.123	0.127	0.010	0.387	0.201	0.131	1.371	6.150	6.150	1,000.00	1.400	0.164	0.013	10.230
0.007	3.120	7.963	0.226	0.334	0.182	0.017	0.754	0.272	0.176	2.650	14.439	14.439	1,000.00	3.810	0.521	0.044	7.984
0.007	6.160	18.004	0.331	0.972	0.214	0.029	1.387	0.309	0.223	3.866	19.374	19.374	1,000.00	8.800	1.383	0.150	3.233
0.019	11.896	36.196	0.323	2.450	0.244	0.087	2.378	0.328	0.293	5.276	16.095	16.095	1,000.00	18.291	3.011	0.286	0.559
0.009	21.774	59.078	0.380	5.517	0.278	0.118	3.662	0.390	0.366	7.830	11.440	11.440	1,000.00	34.163	6.374	0.624	0.034
0.016	36.277	88.404	0.562	10.317	0.221	0.305	4.897	0.386	0.405	10.802	7.099	7.099	1,000.00	55.701	11.649	1.364	0.015
0.001	55.064	114.785	0.664	17.501	0.265	0.810	6.268	0.430	0.356	12.862	3.676	3.676	1,000.00	83.992	18.905	2.335	-
0.004	72.386	135.350	0.592	27.442	0.186	1.712	6.703	0.537	0.318	13.978	1.738	1.738	1,000.00	111.742	28.338	3.935	-
0.011	84.493	157.622	0.686	37.067	0.177	3.444	8.330	0.461	0.328	13.131	0.987	0.987	1,000.00	141.188	37.860	5.618	-
-	83.972	172.909	0.653	49.728	0.117	5.819	8.214	0.575	0.328	12.254	0.638	0.638	1,000.00	163.592	44.218	6.839	-
-	71.881	181.167	0.600	55.300	0.088	9.594	7.003	0.667	0.226	11.372	0.223	0.223	1,000.00	168.050	41.455	6.434	-
-	50.253	192.435	0.601	56.880	0.153	10.780	6.738	0.766	0.206	11.776	0.065	0.065	1,000.00	154.661	34.196	4.894	-
-	19.110	180.164	0.406	49.366	0.115	11.501	4.748	1.303	0.127	10.198	-	-	1,000.00	116.047	21.226	2.539	-
0.014	15.545	36.226	0.257	6.149	0.130	0.563	2.021	0.250	0.175	4.270	6.747	6.747	1,000.000	26.288	5.962	0.791	1.151



Annexure E: Changes to expected count table rates after the application of the new cost hierarchy

Age Bands	NON	ADS	AST	BCE	BMD	CMY	COP	CRF	CSD	DBI	DM1	DM2	DYS	EPL	GLC
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-4	0.004	-	(0.004)	-	-	-	-	-	-	-	-	-	-	-	-
5-9	0.003	-	(0.005)	-	-	-	-	-	-	-	-	-	-	-	-
10-14	(0.011)	-	0.010	-	-	-	-	-	-	-	-	-	-	0.001	-
15-19	(0.002)	-	0.003	-	(0.002)	0.001	-	-	-	-	-	-	-	0.001	-
20-24	0.002	-	(0.002)	-	0.001	-	-	-	-	-	(0.002)	0.001	0.001	(0.001)	-
25-29	(0.006)	-	0.004	-	0.001	-	-	-	-	0.001	(0.003)	0.001	-	-	-
30-34	-	-	0.001	-	(0.004)	0.005	-	-	-	-	-	(0.001)	-	-	-
35-39	(0.002)	-	(0.001)	-	-	-	-	-	-	-	0.001	0.001	-	-	-
40-44	0.028	0.001	0.020	-	(0.002)	0.004	(0.001)	(0.001)	-	-	(0.008)	(0.026)	-	-	(0.001)
45-49	0.033	-	0.028	-	(0.006)	0.006	(0.002)	(0.001)	0.001	-	(0.015)	(0.049)	(0.001)	-	0.001
50-54	(0.030)	-	0.045	-	0.002	(0.010)	(0.005)	(0.003)	0.001	-	(0.017)	(0.083)	(0.002)	-	0.001
55-59	(0.055)	-	0.035	0.001	(0.014)	0.003	(0.006)	(0.003)	(0.001)	-	(0.014)	(0.068)	(0.002)	0.001	0.002
60-64	0.057	(0.001)	(0.021)	-	(0.034)	0.044	0.008	0.001	-	-	0.008	0.044	0.004	(0.002)	(0.003)
65-69	0.094	-	(0.020)	(0.001)	(0.046)	0.053	0.018	0.001	(0.001)	(0.002)	0.006	0.067	0.011	0.003	(0.008)
70-74	0.068	-	(0.013)	(0.001)	(0.048)	0.067	0.037	0.003	-	-	0.010	0.064	0.011	-	(0.007)
75-79	0.051	(0.001)	(0.004)	-	(0.010)	0.016	0.030	0.002	-	-	0.006	0.036	0.008	0.003	0.002
80-84	(0.100)	0.001	0.005	0.001	(0.023)	(0.011)	(0.115)	(0.003)	0.001	-	(0.009)	(0.082)	(0.019)	(0.016)	(0.022)
85+	(0.186)	(0.001)	(0.010)	-	(0.024)	0.042	(0.074)	(0.004)	(0.002)	-	(0.010)	(0.043)	(0.040)	(0.014)	(0.010)
Maximum change	0.094	0.001	0.045	0.001	0.002	0.067	0.037	0.003	0.001	0.001	0.010	0.067	0.011	0.003	0.002



Age bands	HAE	HYL	HYP	IBD	IHD	MSS	PAR	RHA	SCZ	SLE	TDH	HIV	Total by Age Band	CC2	CC3	CC4	MAT
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-	-	-	-	(0.00)	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-
20-24	-	(0.001)	(0.002)	-	-	-	-	-	(0.001)	-	0.003	-	(0.00)	0.001	-	-	-
25-29	-	(0.002)	(0.002)	-	-	-	-	0.001	-	-	0.007	-	0.00	0.001	-	-	-
30-34	-	(0.003)	(0.002)	-	-	-	-	0.001	-	-	0.005	-	0.00	(0.001)	-	-	-
35-39	-	0.003	-	-	0.001	-	-	(0.001)	-	-	(0.002)	-	-	0.001	0.001	-	-
40-44	-	(0.049)	0.004	-	(0.013)	-	-	0.008	(0.001)	0.002	0.036	-	0.00	(0.023)	(0.005)	-	-
45-49	-	(0.095)	0.043	-	(0.029)	-	0.001	0.016	-	0.003	0.068	-	0.00	(0.049)	(0.008)	0.001	-
50-54	-	(0.146)	0.143	(0.002)	(0.065)	-	-	0.034	-	0.005	0.130	-	(0.00)	(0.066)	(0.013)	0.005	-
55-59	-	(0.105)	0.164	-	(0.069)	-	(0.002)	0.027	0.002	0.002	0.102	-	-	(0.041)	(0.004)	0.004	-
60-64	-	0.046	(0.123)	-	0.050	-	0.002	(0.015)	-	(0.001)	(0.062)	-	0.00	0.013	-	(0.005)	-
65-69	-	0.039	(0.194)	0.001	0.073	-	0.004	(0.026)	(0.001)	(0.001)	(0.072)	-	(0.00)	0.009	(0.011)	(0.010)	-
70-74	-	0.022	(0.216)	0.001	0.076	-	0.006	(0.022)	(0.001)	(0.001)	(0.057)	-	(0.00)	0.024	(0.006)	(0.006)	-
75-79	-	0.004	(0.149)	(0.001)	0.039	-	0.004	(0.006)	-	(0.001)	(0.029)	-	-	(0.003)	-	(0.002)	-
80-84	-	(0.049)	0.463	(0.005)	(0.103)	-	(0.020)	0.027	0.004	0.001	0.074	-	-	(0.009)	0.001	0.012	-
85+	-	(0.048)	0.391	(0.001)	(0.024)	-	(0.024)	0.017	0.002	(0.001)	0.063	-	(0.00)	(0.013)	0.037	0.002	-
Maximum change	0.000	0.046	0.463	0.001	0.076	0.000	0.006	0.034	0.004	0.005	0.130	0.000	0.002	0.024	0.037	0.012	0.000



Annexure F: Target population for the calculation of the estimated REF community rate for 2008

Based on the September 2007 Statutory returns

Age bands	Females	Males	Total	% Female
Under 1	71,866	74,936	146,802	48.95%
1-4	231,964	240,253	472,217	49.12%
5-9	296,213	305,907	602,120	49.20%
10-14	310,674	321,334	632,008	49.16%
15-19	315,473	320,887	636,360	49.57%
20-24	261,452	228,753	490,205	53.34%
25-29	279,953	228,220	508,173	55.09%
30-34	330,490	277,001	607,491	54.40%
35-39	344,103	300,913	645,016	53.35%
40-44	313,870	288,990	602,860	52.06%
45-49	282,140	262,939	545,079	51.76%
50-54	228,118	213,546	441,664	51.65%
55-59	178,809	166,148	344,957	51.84%
60-64	130,560	118,930	249,490	52.33%
65-69	95,092	81,022	176,114	53.99%
70-74	69,577	54,916	124,493	55.89%
75-79	52,496	36,532	89,028	58.97%
80-84	33,447	19,413	52,860	63.27%
85+	20,595	9,307	29,902	68.87%
Total	3,846,892	3,549,947	7,396,839	52.01%

