**Supplementary Table 3.** Results of sensitivity analysis in various definitions of poor medication adherence

Income level	Adjusted HR	<i>p</i> -value	Income level A	Adjusted HR	<i>p</i> -value
When Good CMA is defined as CMA ≥ 70%			When Good CMA is defined as CMA ≥ 80%		
Age < 50			Age < 50		
High income	Reference		High income	Reference	
Middle income: natural direct effect	1.22 (1.03-1.45)	0.02	Middle income: natural direct effect 1.2	24 (1.04-1.47)	0.01
Low income: natural direct effect	1.59 (1.34-1.88)	< 0.01	Low income: natural direct effect 1.6	61 (1.35-1.91)	< 0.01
Medical Aid beneficiaries: natural direct effect	2.59 (2.09-3.21)	< 0.01	Medical Aid beneficiaries: natural direct effect 2.6	50 (2.10-3.23)	< 0.01
Middle income: natural indirect effect	1.01 (0.85-1.21)	0.90	Middle income: natural indirect effect 1.0	01 (0.85-1.21)	0.88
Low income: natural indirect effect	1.03 (0.86-1.22)	0.78	Low income: natural indirect effect 1.0	03 (0.86-1.23)	0.75
Medical Aid beneficiaries: natural indirect effect	1.03 (0.86-1.22)	0.78	Medical Aid beneficiaries: natural indirect 1.0 effect	02 (0.86-1.22)	0.81
Age ≥50			Age ≥ 50		
High income	Reference		High income	Reference	
Middle income: natural direct effect	1.22 (1.12-1.32)	< 0.01	Middle income: natural direct effect 1.2	22 (1.12-1.32)	< 0.01
Low income: natural direct effect	1.25 (1.16-1.36)	< 0.01	Low income: natural direct effect 1.2	26 (1.16-1.36)	< 0.01
Medical Aid beneficiaries: natural direct effect	1.95 (1.79-2.13)	< 0.01	Medical Aid beneficiaries: natural direct effect 1.9	96 (1.80-2.14)	< 0.01
Middle income: natural indirect effect	1 (0.92-1.08)	0.99	Middle income: natural indirect effect 1.0	00 (0.92-1.08)	0.97
Low income: natural indirect effect	0.99 (0.92-1.08)	0.88	Low income: natural indirect effect 0.9	99 (0.91-1.07)	0.80
Medical Aid beneficiaries: natural indirect effect	0.99 (0.91-1.07)	0.80	Medical Aid beneficiaries: natural indirect 0.9 effect	98 (0.90-1.06)	0.61
When Good CMA is defined as CMA ≥ 75%			When Good CMA is defined as CMA ≥ 90%		
Age < 50			Age < 50		
High income	Reference		High income	Reference	
Middle income: natural direct effect	1.22 (1.03-1.45)	0.02	Middle income: natural direct effect 1.2	24 (1.05-1.48)	0.01
Low income: natural direct effect	1.59 (1.34-1.89)	< 0.01	Low income: natural direct effect 1.6	64 (1.38-1.95)	< 0.01
Medical Aid beneficiaries: natural direct effect	2.59 (2.09-3.21)	< 0.01	Medical Aid beneficiaries: natural direct effect 2.6	50 (2.10-3.23)	< 0.01
Middle income: natural indirect effect	1.01 (0.85-1.21)	0.90	Middle income: natural indirect effect 1.0	01 (0.84-1.20)	0.95
Low income: natural indirect effect	1.03 (0.86-1.22)	0.79	Low income: natural indirect effect 1.0	01 (0.85-1.21)	0.89
Medical Aid beneficiaries: natural indirect effect	1.02 (0.86-1.22)	0.81	Medical Aid beneficiaries: natural indirect 1.0 effect	01 (0.85-1.21)	0.90
Age ≥ 50			Age ≥ 50		
High income	Reference		High income	Reference	
Middle income: natural direct effect	1.22 (1.03-1.45)	0.02	Middle income: natural direct effect 1.2	22 (1.13-1.32)	< 0.01
Low income: natural direct effect	1.59 (1.34-1.89)	< 0.01	Low income: natural direct effect 1.2	25 (1.16-1.36)	< 0.01
Medical Aid beneficiaries: natural direct effect	2.59 (2.09-3.21)	< 0.01	Medical Aid beneficiaries: natural direct effect 1.9	94 (1.78-2.12)	< 0.01
Middle income: natural indirect effect	1.01 (0.85-1.21)	0.90	Middle income: natural indirect effect 1.0	00 (0.92-1.08)	0.98
Low income: natural indirect effect	1.03 (0.86-1.22)	0.79	Low income: natural indirect effect 0.9	99 (0.92-1.08)	0.85
Medical Aid beneficiaries: natural indirect effect	1.02 (0.86-1.22)	0.81	Medical Aid beneficiaries: natural indirect 0.9 effect	99 (0.91-1.07)	0.73

HR, hazard ratio; CI, confidence interval.