

Supplementary File 4**Supplementary Table 2. The contribution of mark-ups occurring at various stages of the public and private sector supply chains of insulin shown as a percentage of the final price for locally-manufactured and imported products.**

	Mark-up contribution to final price (range; %)											
	MSP		Stage 1		Stage 2		Stage 3		Stage 4		Stage 5	
Public sector	Local	Import	Local	Import	Local	Import	Local	Import	Local	Import	Local	Import
Brazil	-	nd	-		-	nd	-	nd	-	nd	-	nd
China (Hubei) (n=11)	80.9 - 92.0	55.6 - 68.9	nd	nd	0	18.6 - 23.1	6.1 - 8.0	6.5 - 7.0	0	13.1 - 19.4	0	0
China (Shaanxi) (n=14)	77.4 - 78.5	59.6 - 82.0	nd	nd	0	20.0 - 21.6	8.5 - 9.6	1.1 - 7.3	13.0	13.0 - 13.1	0	0
Ghana (n=2)	-	48.2 - 49.5	-	3.4 - 3.5	-	4.1 - 4.2	-	13.9 - 14.3	-	28.6 - 30.4	-	0
India (Haryana) (n=1)	67.9	-	nd	-	4.3	-	6.6	-	16.2	-	5.0	-
Indonesia ^a (n=6)	-	27.6 - 50.4	-	nd	-	13.4 - 33.6	-	9.6 - 12.3	-	19.1	-	7.4
Uganda (n=1)	-	90.9	-	nd	-	9.1	-	0	-	0	-	0
Private sector	Local	Import	Local	Import	Local	Import	Local	Import	Local	Import	Local	Import
Brazil	-	nd	-	nd	-	nd	-	nd	-	nd	-	nd
China (Hubei) (n=8)	-	59.6 - 68.9	-	nd	-	20.0 - 23.1	-	3.2 - 3.7	-	4.4 - 17.2 ^b	-	0 ^b
China (Hubei) (Private hospital) (n=4)	80.0	57.4 - 60.2	nd	nd	0	19.2 - 20.2	7.0	6.7 - 7.0	13.0 ^b	12.7 - 16.8 ^b	0 ^b	0 ^b
China (Shaanxi) (n=12)	73.7 - 91.1	56.3 - 70.5	nd	nd	0	18.9 - 23.6	0.05 - 8.7	0.5 - 12.3	7.8 - 26.2 ^b	2.1 - 12.6 ^b	0 ^b	0 ^b
Ghana (n=11)	-	30.0 - 55.9	-	2.1 - 3.6	-	2.6 - 4.8	-	8.7 - 16.1	-	19.3 - 56.7	-	0
India (Haryana) (n=9)	67.7 - 72.7	60.6 - 61.1	nd	nd	4.3 - 4.6	16.2 - 16.7	6.7 - 8.3	6.7 - 6.8	11.0 - 11.8	11.0	5.0	5.0
Indonesia ^a (n=11)	-	15.0 - 50.4	-	nd	-	6.9 - 45.5	-	4.9 - 12.8	-	12.0 - 58.8	-	3.7 - 8.0
Uganda (n=3)	-	47.7 - 62.0	-	9.6 - 12.4	-	7.1 - 9.2	-	3.2 - 4.2	-	12.3 - 32.4	-	0

Key: nd – no data; Stage 1 – insurance & freight; Stage 2 – clearance charges; Stage 3 – wholesale mark-up; Stage 4 – retail markup; Stage 5 – sales tax/VAT.

^a Includes supply for both national health insurance (NHI) and non-NHI patients

^b 17% VAT included in Stage 4