

**Appendix Table A: Sensitivity analysis**  
**Effects of HEF on monthly utilization of referral hospitals (excluding Phnom Penh, Battambang, Banteay Meanchey) 2006-2013**

Variables	No of Outpatient Consultation	No of Inpatient Cases	No of New-born Deliveries
<b>HEF effect:</b>			
Underlying time trend (slope)	<b>23.0 (11.8, 34.2)</b>	<b>6.2 (3.9, 8.5)</b>	-3.4 (-10.1, 3.3)
Level change at point of HEF introduction	43.7 (-12.3, 99.6)	<b>41.9 (30.8, 53.2)</b>	6.8 (-22/8, 36.4)
Slope change at the point of HEF introduction	<b>40.1 (27.8, 52.4)</b>	<b>27.8 (25.3, 30.3)</b>	<b>10.8 (4.1, 17.5)</b>
<b>Seasonal effect:</b>			
January	REF	REF	REF
February	-11.8 (-68.5, 44.9)	<b>-15.5 (-27.1, -3.8)</b>	<b>-10.6 (-14.8, -6.4)</b>
March	-5.4 (-61.9, 51.1)	<b>-16.1 (-27.8, -4.5)</b>	<b>-10.9 (-15.0, -6.7)</b>
April	-32.8 (-89.4, 23.7)	<b>-15.1 (-26.7, -3.4)</b>	<b>-8.6 (-12.7, -4.4)</b>
May	-12.6 (-68.8, 43.6)	-6.3 (-18.0, 5.3)	<b>-12.7 (-16.8, -8.5)</b>
June	40.7 (-15.8, 97.3)	<b>22.1 (10.4, 33.8)</b>	<b>-15.3 (-19.4, -11.1)</b>
July	<b>73.4 (16.8, 130.1)</b>	<b>46.3 (34.5, 57.9)</b>	<b>-15.8 (-20.0, -11.6)</b>
August	<b>92.6 (36.2, 149.0)</b>	<b>36.9 (25.3, 48.7)</b>	<b>-14.5 (-18.7, -10.3)</b>
September	39.0 (-17.2, 95.3)	<b>23.1 (11.4, 34.8)</b>	<b>-7.8 (-11.9, -3.6)</b>
October	47.0 (-9.3, 103.3)	<b>33.4 (21.8, 45.1)</b>	-3.0 (-7.1, 1.2)
November	34.6 (-21.8, 90.9)	<b>22.3 (10.7, 33.9)</b>	-1.7 (-5.9, 2.4)
December	<b>56.8 (0.46, 113.1)</b>	-6.8 (-18.4, 4.8)	-2.8 (-6.9, 1.3)
<b>Concurrent policies (control variables):</b>			
With Contracting	<b>193.1 (76.7, 309.6)</b>	25.5 (-2.3, 53.5)	-14.8 (-40.5, 10.8)
With Voucher	-43.1 (-92.6, 6.4)	<b>15.7 (5.9, 25.5)</b>	<b>12.2 (8.1, 16.3)</b>
With Subo	-8.1 (-100.5, 84.3)	<b>41.2 (21.9, 60.3)</b>	-
With Gabi	-92.1 (-169.9, 14.2)	<b>27.7 (11.3, 44.1)</b>	0.5 (-9.3, 10.2)
With MWI	<b>-55.2 (-101.4, -9.0)</b>	<b>-44.1 (-53.5, -34.6)</b>	3.8 (-0.8, 8.4)

Note: This analysis excludes data from three large hospitals in Phnom Penh, Battambang, and Banteay Meanchey