

Supplementary Materials

The 2004 PMTCT guidelines^a

- Antenatal period from 28 week of gestation: HIV-positive pregnant women to receive AZT (300mg) twice a day during pregnancy,
- During delivery:
 - Pregnant women receive AZT (300mg) every three hours and one dose of NVP (200 mg)
 - HIV-exposed infants within 72 hours after birth receive one dose of NVP (2mg/kg) and AZT(2mg/kg) every six hours up to six weeks post partum

The 2008 PMTCT guideline^b

- Antenatal period from 28 week of gestation: HIV-positive pregnant women to receive AZT (300mg) twice a day during pregnancy,
- During delivery:
 - Pregnant women receive AZT (300mg) every three hours, 3TC (150mg) two times per day and one dose NVP (200 mg)
 - HIV-exposed infants within 72 hours after birth receive one dose of NVP (2mg/kg) and AZT(2mg/kg) every six hours up to six weeks post partum

The 2011 PMTCT guidelines ^c

- Antenatal period from 14 weeks of gestation recommend AZT (300 mg) +3TC (150 mg) + LPV/EFV (400/100 mg) twice daily, or AZT (300 mg) + 3TC (150mg) twice daily, or EFV (600mg) once daily during pregnancy
- During delivery:
 - Pregnant women receive AZT (300mg) + 3TC (150mg) two times per day and one dose NVP (200 mg) until seven days post partum
 - HIV-exposed infants within 6-12 hours after birth receive one dose of NVP or AZT daily (15mg, 10mg and 2mg/kg for neonatal body weigh≥2500g, between 2000g and 2500g and <2000, respectively) up to six weeks post partum

^a Ministry of Health of the People's Republic of China. Implementatin plan for prevention of mother-to-child transmission of HIV (2004, trial). Beijing: Ministry of Health of the People's Republic of China; 2004.

^b Ministry of Health of the People's Republic of China. Implementatin plan for prevention of mother-to-child transmission of HIV (revised edition). Beijing: Ministry of Health of the People's Republic of China; 2008.

^c Ministry of Health of the People's Republic of China. Implementatin plan for prevention of mother-to-child transmission of HIV, syphilis and hepatitis. Beijing: Ministry of Health of the People's Republic of China; 2011.

Figure S1 Main HIV infection routes among pregnant women during 2003-2011 in China

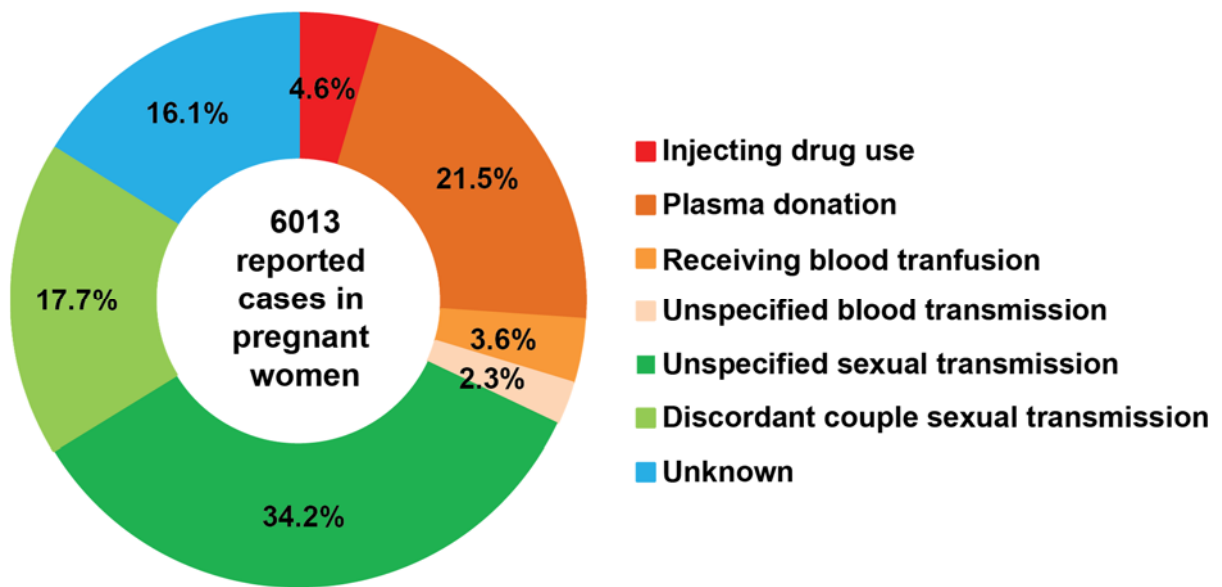


Figure S2. Continuum of care of PMTCT program from 2003 to 2011 in China

Figure S2a. Continuum of care of PMTCT program in 2003 in China

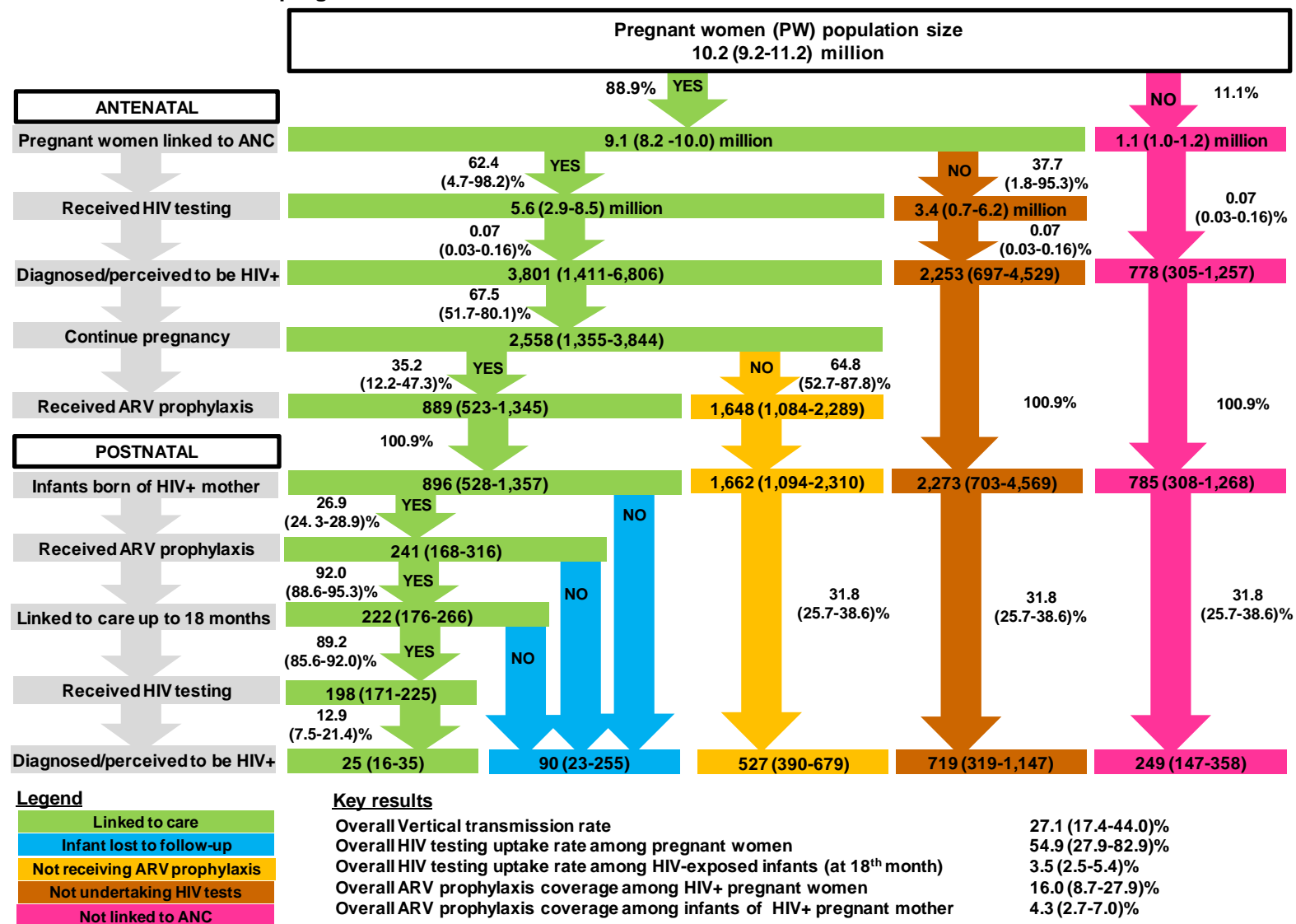


Figure S2b. Continuum of care of PMTCT program in 2004 in China

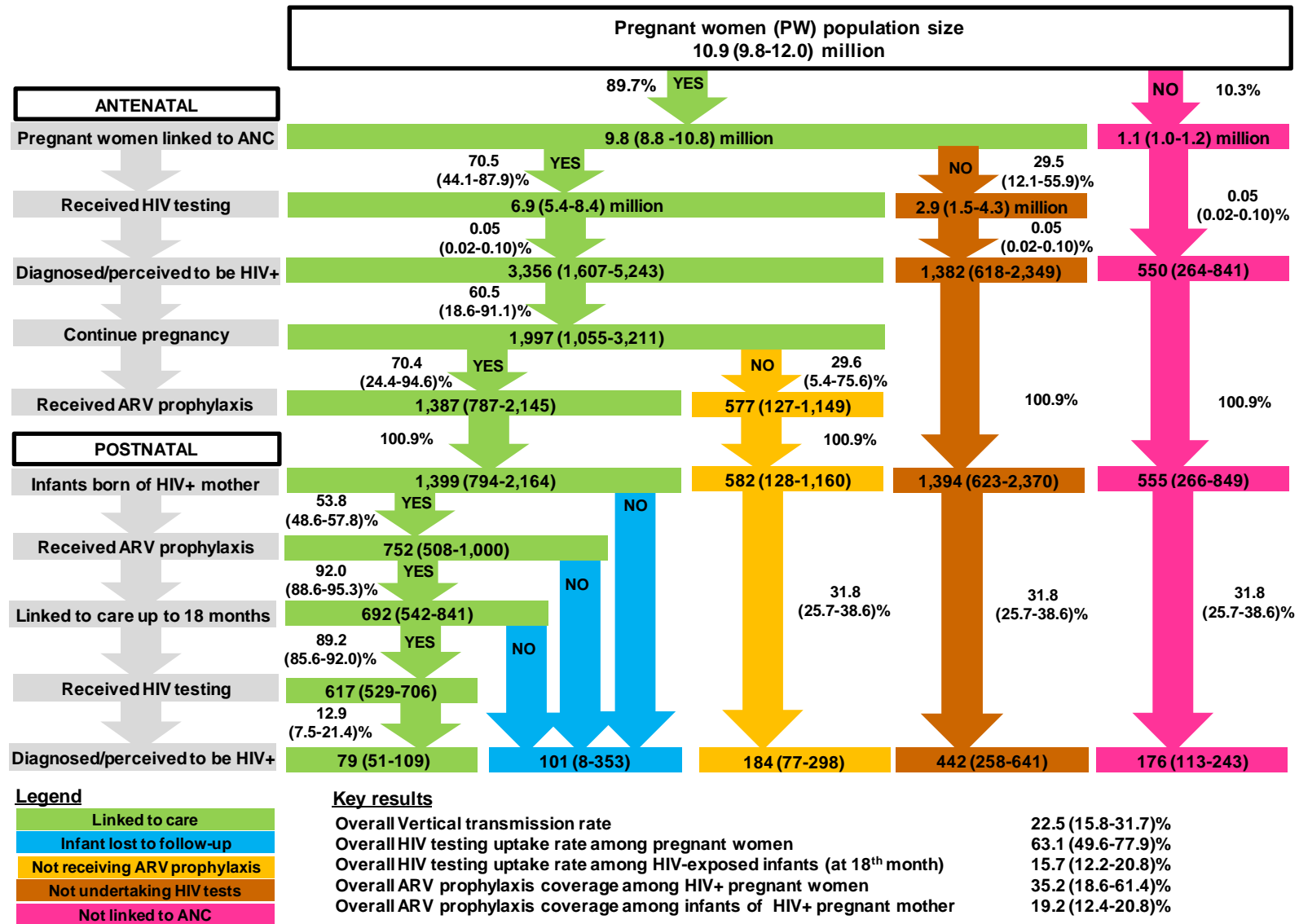


Figure S2c. Continuum of care of PMTCT program in 2005 in China

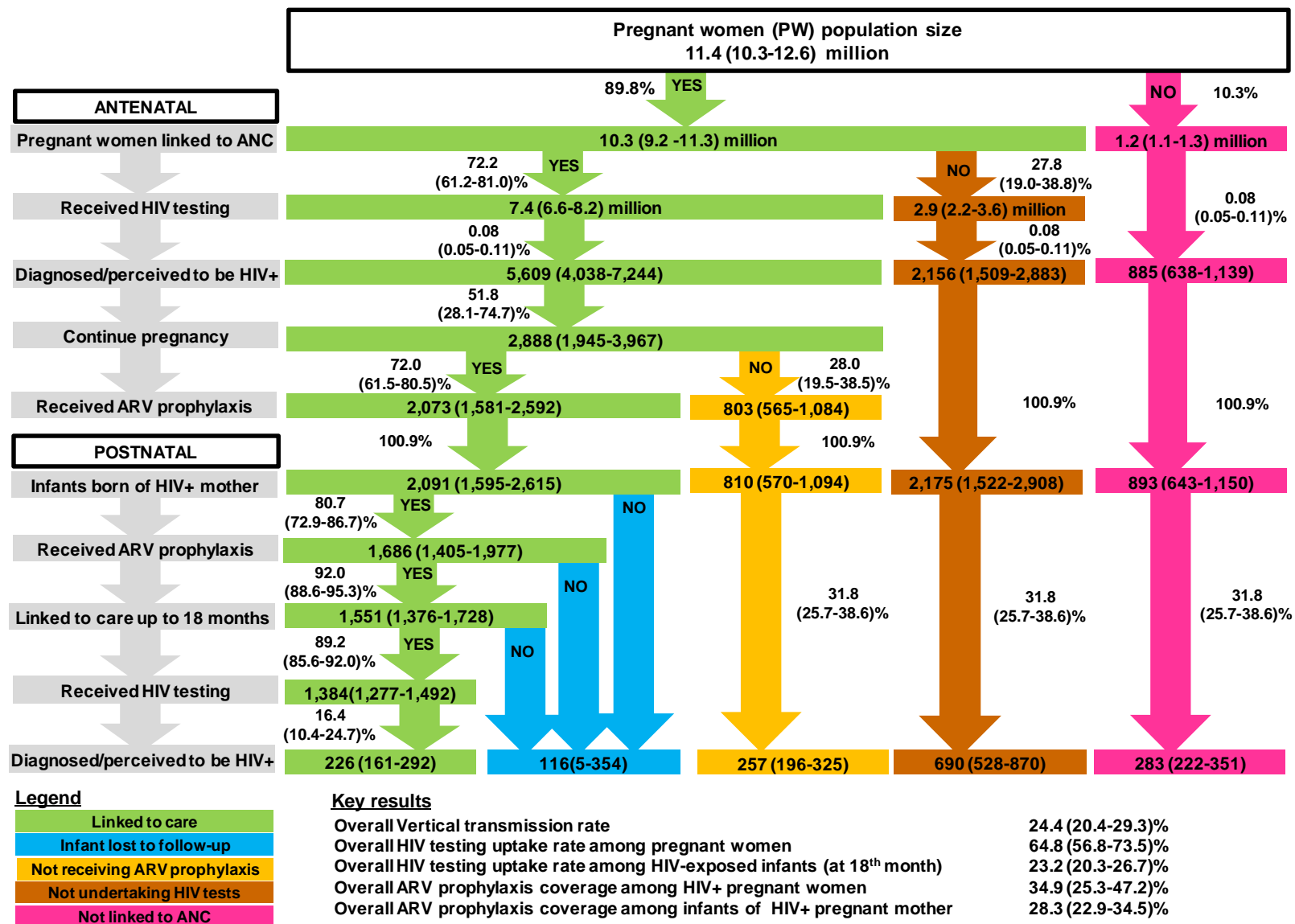


Figure S2d. Continuum of care of PMTCT program in 2006 in China

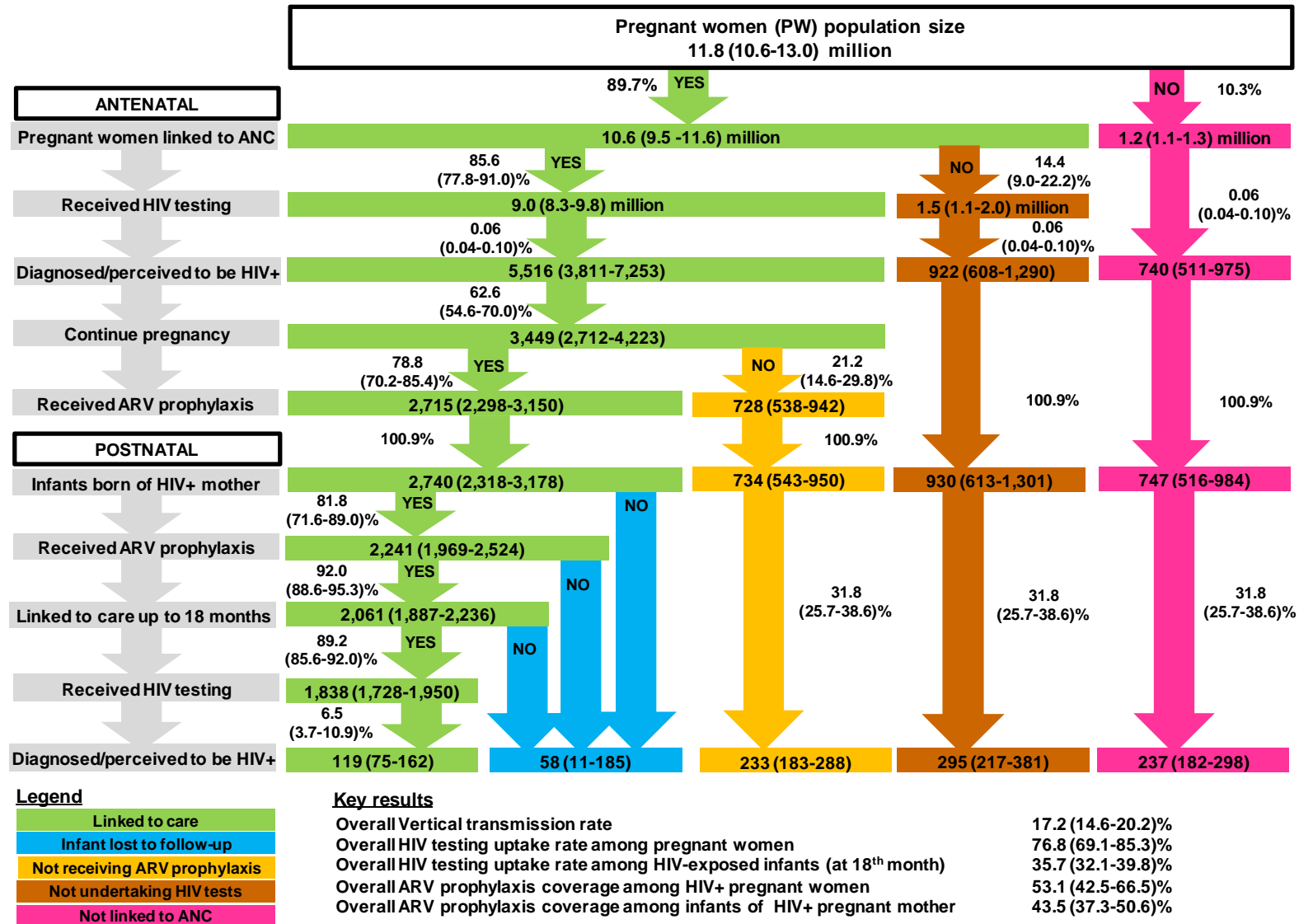


Figure S2e. Continuum of care of PMTCT program in 2007 in China

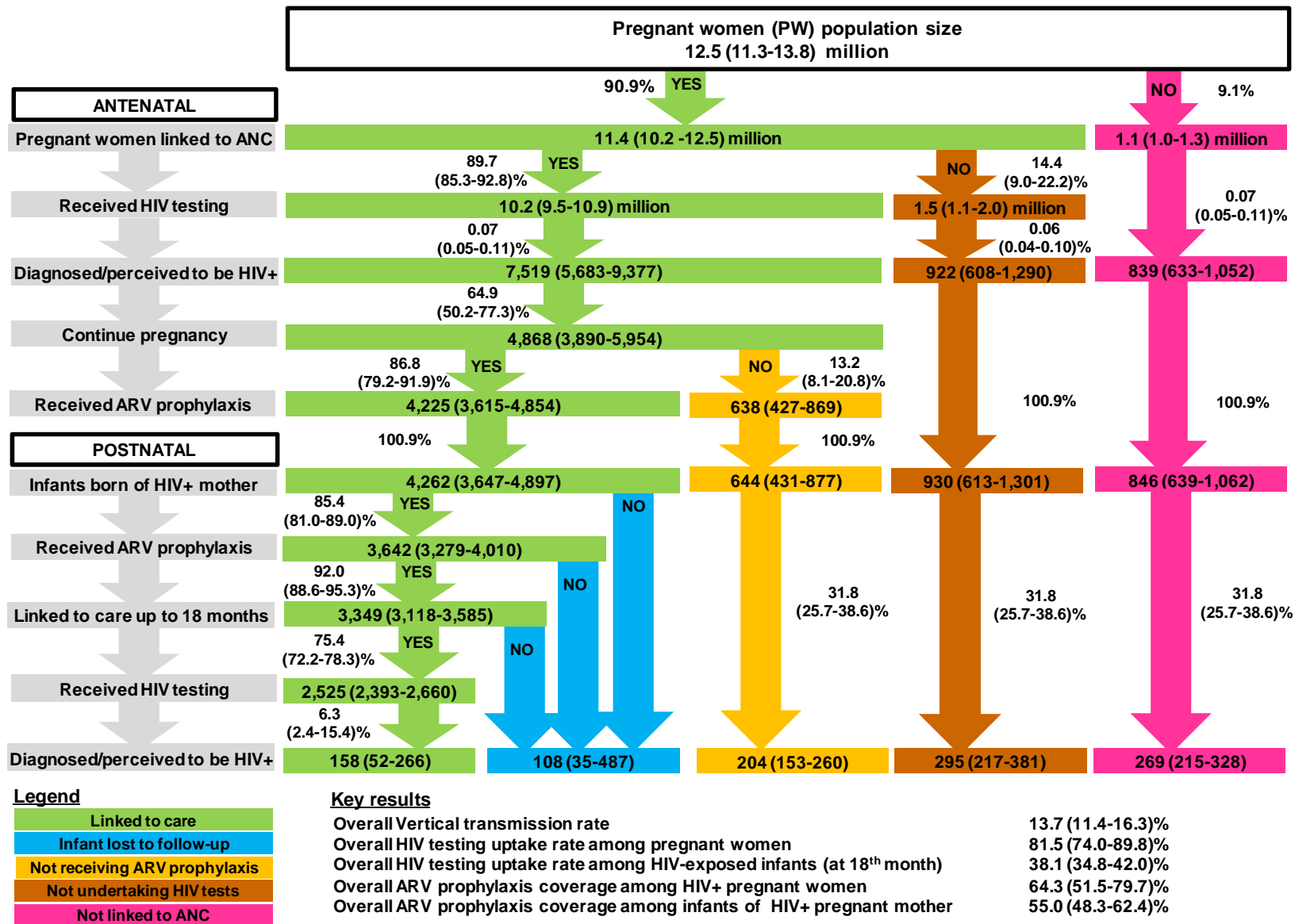


Figure S2f. Continuum of care of PMTCT program in 2008 in China

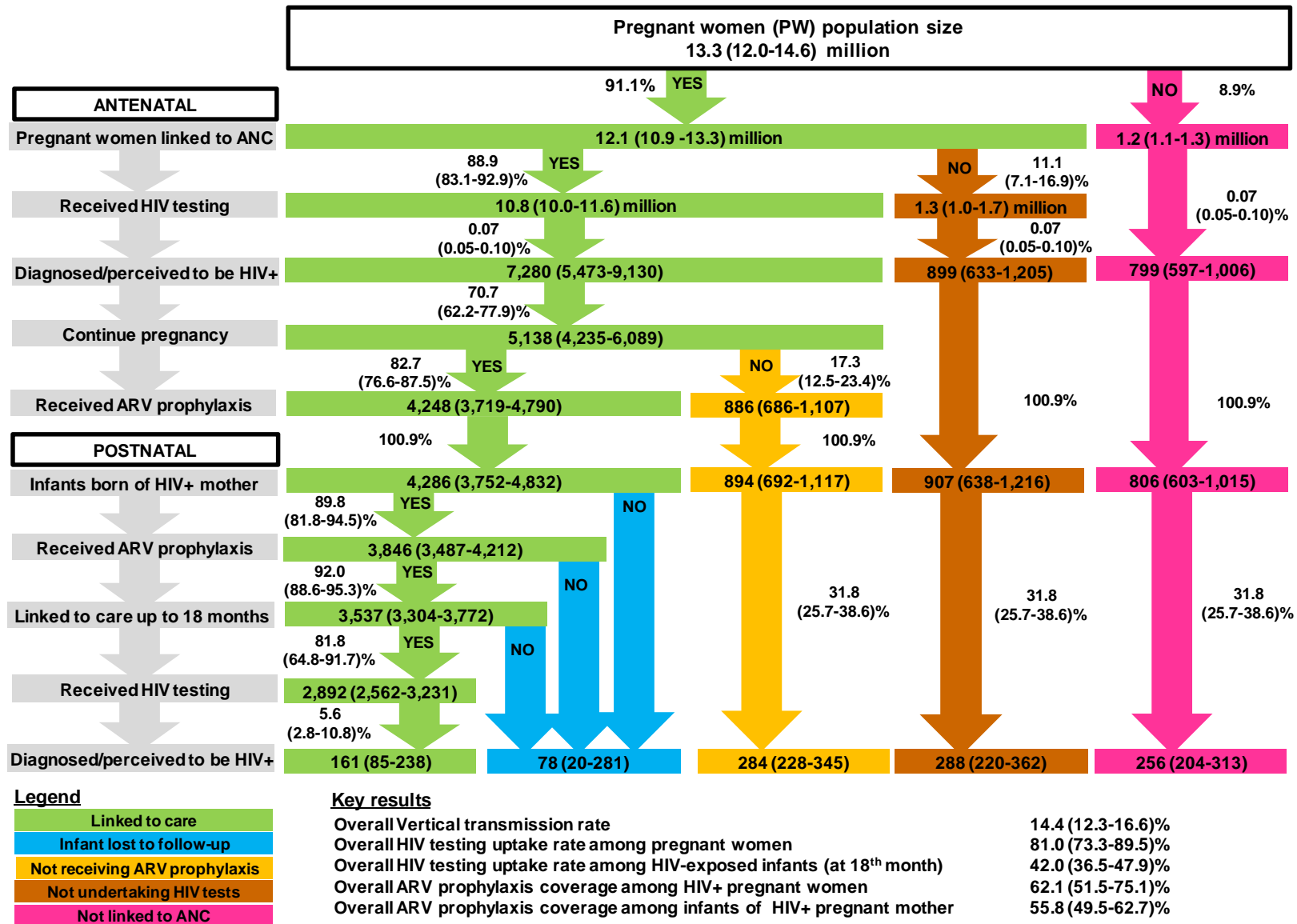


Figure S2g. Continuum of care of PMTCT program in 2009 in China

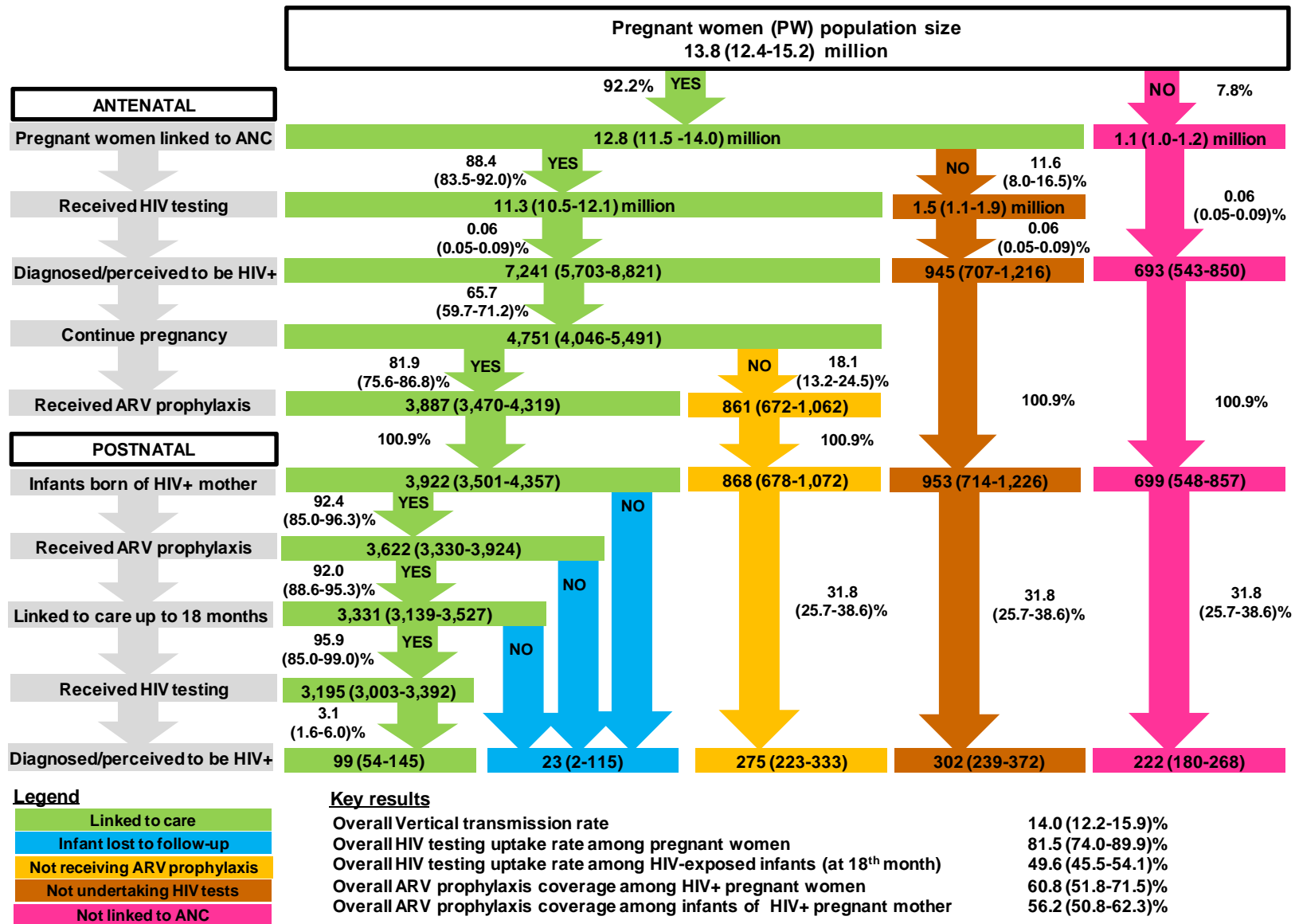


Figure S2h. Continuum of care of PMTCT program in 2010 in China

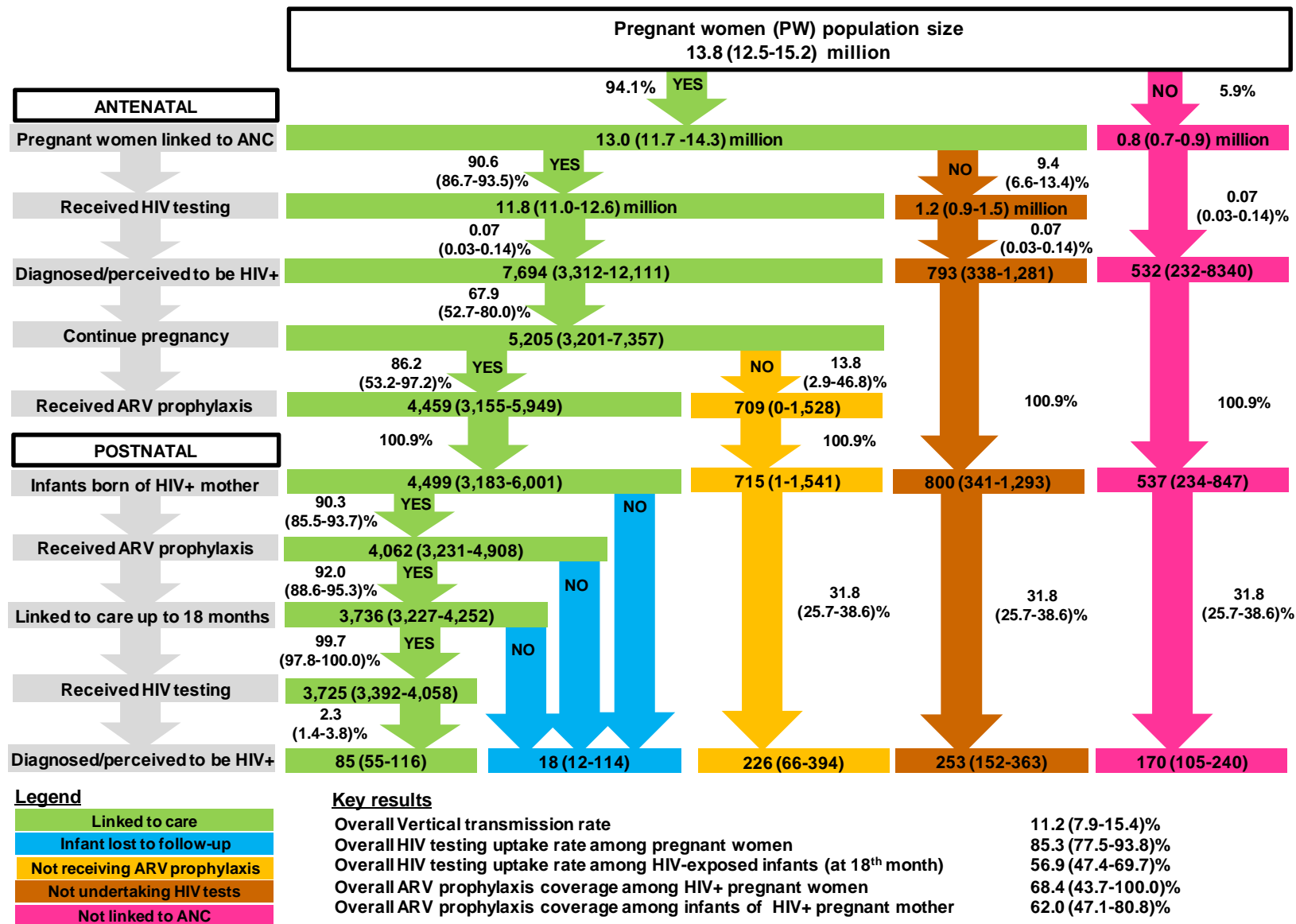


Figure S2i. Continuum of care of PMTCT program in 2011 in China

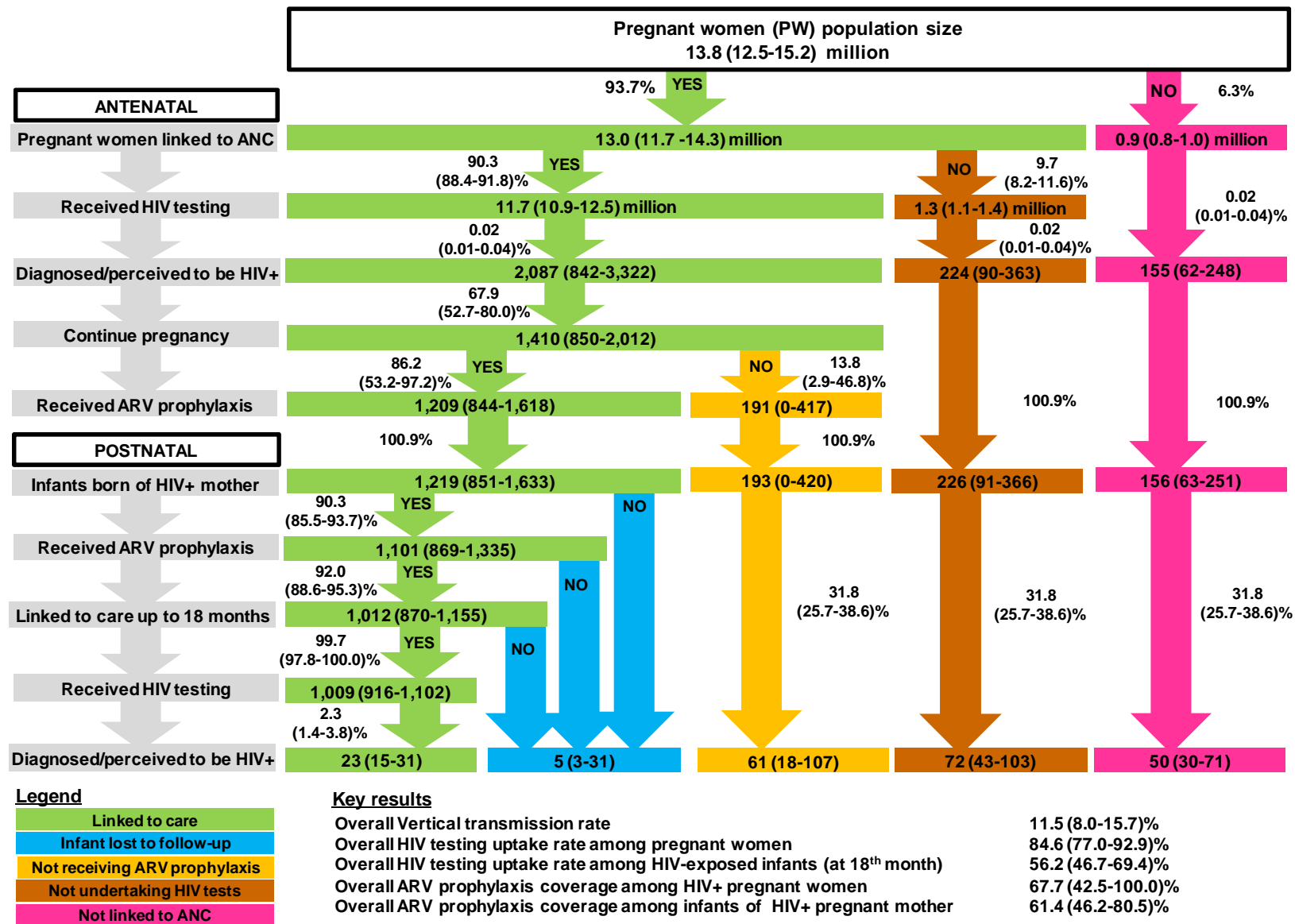


Table S1. Summery table of the 113 included studies (NSS: national surveillance sites; MCH: maternal and child health center)

First author, published year	Province	Recruitment venue	HIV prevalence among pregnant women	HIV testing rate among pregnant women in antenatal care	Percentage of uptake of ARV prophylaxis among HIV-positive pregnant women	Percentage of infants who received ARV prophylaxis	HIV testing rate among infants remained in care until age of 18-month	Percentage of infants tested HIV-positive at 18th month	Quality score
<2003									
A SY, 2003 ¹	Xinjiang	NSS	24 / 6012						6
Chen L, 2006 ²	Guangdong	MCH	12 / 77997						6
He Y, 2003 ³	Guangdong	NSS	1 / 3310						5
Li H, 2001 ⁴	Yunnan	NSS	38 / 25345						5
Liu YM, 2004 ⁵	Guangdong	MCH	1 / 49341						5
Peng X, 2003 ⁶	Yunnan	NSS	29 / 4202						5
Ren JH, 2002 ⁷	Guangdong	Hospital	2 / 11701						5
Sun DY, 2008 ⁸	Henan	MCH	49 / 9412						4
Wu ZJ, 2007 ⁹	Guangdong	MCH	0 / 3873	3873 / 4489					5
Yang L, 2008 ¹⁰	Yunnan	NSS	42 / 17135						7
Zhang M, 2004 ¹¹	Xinjiang	MCH	12 / 1634						4
Pooled estimates from meta-analysis (95%CI)			0.09% (0.02-0.43%)	86.28% (85.24-87.25%)					
Test of heterogeneity			$I^2=96.35\%$, $p<0.001$	$I^2=0\%$, $p=1.00$					
Test of overall effect			$Z=-8.50$, $p<0.001$	$Z=42.39$, $p<0.001$					
2003									
An FL, 2009 ¹²	Henan	NSS	3 / 1985						4
Chen JX, 2005 ¹³	Guangdong	Hospital	1 / 4365						4
Chen L, 2006 ²	Guangdong	MCH	10 / 124975						6
Cheng WM, 2006 ¹⁴	Hunan	NSS	15 / 38211						5
Fang L, 2007 ¹⁵	Guangdong	NSS	10 / 116851						6
Liu YM, 2004 ⁵	Guangdong	MCH	3 / 45396						5
Qiu X, 2009 ¹⁶	4 counties	NSS	14 / 2746	2746 / 12703					4

Sun DY, 2008 ⁸	Henan	MCH	106 / 117405					4
Wu ZJ, 2007 ⁹	Guangdong	MCH	2 / 8860	8860 / 9751				5
Xu MY, 2011 ¹⁷	Guangxi	NSS	3 / 882					6
Yang L, 2008 ¹⁰	Yunnan	NSS	85 / 22876					7
Zhang M, 2004 ¹¹	Xinjiang	MCH	3 / 308					4
Pooled estimates from meta-analysis (95%CI)			0.07% (0.03-0.06%)	62.35% (4.70-98.23%)				
Test of heterogeneity			$I^2=96.93\%$, $p<0.001$	$I^2=99.99\%$, $p<0.001$				
Test of overall effect			$Z=-8.50$, $p<0.001$	$Z=0.28$, $p=0.778$				

2004

Wu ZJ, 2007 ⁹	Guangdong	MCH	0 / 10553	10553 / 10726				5
Fang L, 2007 ¹⁵	Guangdong	NSS	14 / 141259					6
Zhou XK, 2009 ¹⁸	Hubei	MCH	1 / 10012	10012 / 11150				3
Chen L, 2006 ²	Guangdong	MCH	14 / 135680					6
Zhao J, 2010 ¹⁹	Hubei	NSS	1 / 4469	4469 / 7428				5
Cheng WM, 2006 ¹⁴	Hunan	NSS	9 / 35936	35936 / 46375				5
Dai GH, 2010 ²⁰	Hubei	NSS	6 / 21550					5
An FL, 2009 ¹²	Henan	NSS	4 / 12041					4
Wu M, 2011 ²¹	Hunan	NSS	0 / 1163	1163 / 35771				3
Sun DY, 2008 ⁸	Henan	MCH	163 / 125128					4
Xu MY, 2011 ¹⁷	Guangxi	NSS	5 / 1896					6
Sun DY, 2006 ²²	Henan	NSS	232 / 57215					6
Qiu X, 2009 ¹⁶	4 counties	NSS	119 / 22891	22891 / 34294	44 / 94		12 / 93	4
Wang LH, 2006 ²³	Multi provinces	NSS			54 / 62			3
Pooled estimates from meta-analysis (95%CI)			0.05% (0.02-0.10%)	70.51% (44.13-87.86%)	70.39% (24.42-94.59%)		12.90% (7.48-21.36%)	
Test of heterogeneity			$I^2=97.97\%$, $p<0.001$	$I^2=99.98\%$, $p<0.001$	$I^2=95.51\%$, $p<0.001$		$I^2=0\%$, $p<0.001$	
Test of overall effect			$Z=-20.51$, $p<0.001$	$Z=1.54$, $p=0.123$	$Z=0.85$, $p=0.395$		$Z=-6.17$, $p<0.001$	

2005

Tang GZ, 2008 ²⁴	Hubei	NSS	0 / 23728					7
Zhou XK, 2009 ¹⁸	Hubei	MCH	0 / 23553	23553 / 25182				3

Dai GH, 2010 ²⁰	Hubei	NSS	14 / 277876					5
Fang L, 2007 ¹⁵	Guangdong	NSS	21 / 159519					6
Chen WX, 2010 ²⁵	Guizhou	NSS	0 / 3795	3795 / 8782				5
Cheng WM, 2006 ¹⁴	Hunan	NSS	7 / 45935	45935 / 46742				5
Wu ZJ, 2007 ⁹	Guangdong	MCH	2 / 11770	11770 / 11886				5
Tian ZW, 2011 ²⁶	Henan	NSS	2 / 9453					5
Wu M, 2011 ²¹	Hunan	NSS	2 / 9078	9078 / 38582				3
Wang HN, 2006 ²⁷	Guangdong	Hospital	1 / 3691	3691 / 4031				5
An FL, 2009 ¹²	Henan	NSS	3 / 10258					4
Zhao J, 2010 ¹⁹	Hubei	NSS	2 / 5207	5207 / 8912				5
Ma JQ, 2007 ²⁸	Guangdong	NSS	3 / 5441	5441 / 22028				7
Wang LQ, 2011 ²⁹	Yunnan	MCH	0 / 755					3
Liu JR, 2011 ³⁰	Hubei	NSS	3 / 3651					7
Chen ZY, 2010 ³¹	Henan	NSS	228 / 219320		100 / 119			4
Sun DY, 2008 ⁸	Henan	MCH	234 / 204384					4
Ma Q, 2012 ³²	Yunnan	NSS	34 / 13659	13659 / 35248				7
Huang WT, 2011 ³³	Yunnan	NSS	4 / 1476					3
Fang LW, 2010 ³⁴	National	NSS	914 / 336459	336459 / 581975	362 / 560	409 / 530		7
Xu MY, 2011 ¹⁷	Guangxi	NSS	8 / 1956					6
Lan Z, 2009 ³⁵	Guangxi	MCH	9 / 2160					5
Yang L, 2008 ¹⁰	Yunnan	NSS	101 / 23890					7
Qiu X, 2009 ¹⁶	4 counties	NSS	143 / 24387	24387 / 35366	63 / 106		17 / 104	4
Fang LW, 2008 ³⁶	Multi provinces	NSS		227 / 774				4
Zhou XC, 2012 ³⁷	Shanxi	MCH		24807 / 32578				3
Wang Q, 2012 ³⁸	Multi provinces	NSS			263 / 341	287 / 341		3
Pooled estimates from meta-analysis (95%CI)			0.08% (0.05-0.11%)	72.18% (61.22-81.00%)	71.99% (61.49-80.54%)	80.72% (72.89-86.70%)	16.35% (10.41-24.73)	
Test of heterogeneity			$I^2=97.52\%$, $p<0.001$	$I^2=99.98\%$, $p<0.001$	$I^2=90.50\%$, $p<0.001$	$I^2=84.03\%$, $p=0.012$	$I^2=0\%$, $p<0.001$	
Test of overall effect			$Z=-34.31$, $p<0.001$	$Z=3.76$, $p<0.001$	$Z=3.89$, $p<0.001$	$Z=6.34$, $p<0.001$	$Z=-6.16$, $p<0.001$	

2006

Tang GZ, 2008 ²⁴	Hubei	NSS	1 / 29249					7
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Ma JQ, 2007 ²⁸	Guangdong	NSS	1 / 19660	19660 / 21208						7
Hu J, 2010 ³⁹	Hubei	NSS	4 / 62051							6
Wu M, 2011 ²¹	Hunan	NSS	1 / 14202	14202 / 34786						3
Dai GH, 2010 ²⁰	Hubei	NSS	40 / 399301							5
Zhou XK, 2009 ¹⁸	Hubei	MCH	3 / 27566	27566 / 28447						3
Wu ZJ, 2007 ⁹	Guangdong	MCH	1 / 6451	6451 / 6458						5
Fang L, 2007 ¹⁵	Guangdong	NSS	31 / 192949		18 / 35	18 / 35	29 / 30			6
Zhao J, 2010 ¹⁹	Hubei	NSS	1 / 6105	6105 / 9607						5
Chen WX, 2010 ²⁵	Guizhou	NSS	1 / 6097	6097 / 10562						5
Tian ZW, 2011 ²⁶	Henan	NSS	5 / 24358							5
Lin H, 2006 ⁴⁰	Jiangxi	MCH	0 / 1437							4
An FL, 2009 ¹²	Henan	NSS	6 / 11997							4
Sun DY, 2008 ⁸	Henan	MCH	190 / 307185		376 / 436	410 / 431	167 / 192	9 / 167		4
Chen ZY, 2010 ³¹	Henan	NSS	221 / 349305		101 / 111					4
Liu JR, 2011 ³⁰	Hubei	NSS	4 / 3855							7
Lan Z, 2009 ³⁵	Guangxi	MCH	7 / 5423							5
Li Y, 2007 ⁴¹	Yunnan	NSS	3 / 2256							3
Wang LQ, 2011 ²⁹	Yunnan	MCH	3 / 2243							3
Xu MY, 2011 ¹⁷	Guangxi	NSS	3 / 1944							6
Liu CX, 2012 ⁴²	Yunnan	MCH	12 / 7723							7
Chen YQ, 2007 ⁴³	Guangdong	MCH	9 / 3886							6
Ma Q, 2012 ³²	Yunnan	NSS	74 / 22857	22857 / 33842						7
Shi X, 2007 ⁴⁴	Yunnan	NSS	6 / 1816							7
Huang WT, 2011 ³³	Yunnan	NSS	18 / 2720							3
Qiu X, 2009 ¹⁶	4 counties	NSS	209 / 25773	25773 / 36537	104 / 155			21 / 154		4
Zhou XC, 2012 ³⁷	Shanxi	MCH		29452 / 37316						3
Meng XN, 2008 ¹⁴⁵	Guangxi	NSS		12049 / 15211						5
Fang LW, 2010 ³⁴	National	NSS	1453 / 1287812	1287812 / 1594579	623 / 931	720 / 899	297 / 345			7
Du M, 2006 ⁴⁶	Yunnan	MCH		7726 / 9145						3
Zhu ML, 2008 ⁴⁷	Guangxi	MCH		22591 / 26391						3
Peng YE, 2003 ⁴⁸	Henan	NSS		766806 / 801538			229 / 254	9 / 229		5

Zhang CF, 2011 ⁴⁹	Yunnan	MCH		41 / 59			0 / 35	7
Wang Q, 2012 ³⁸	Multi provinces	NSS		178 / 233	198 / 233			3
Gong SY, 2007 ⁵⁰	Multi provinces	NSS		303 / 346		75 / 80		3
Gao LP, 2006 ⁵¹	Yunnan	NSS		45 / 47				4
Shi JC, 2007 ⁵²	Henan	NSS			25 / 35			3
Chen ZY, 2007 ⁵³	Henan	NSS			145 / 171		9 / 171	3
Huang Q, 2009 ⁵⁴	Guangdong	NSS				32 / 32	3 / 32	4
Pooled estimates from meta-analysis (95%CI)			0.06% (0.04-0.10%)	85.60% (77.77-90.99%)	78.79% (70.19-85.43%)	81.84% (71.55-88.98%)	89.22% (85.56-92.04)	6.45% (3.73-10.93)
Test of heterogeneity			$I^2=98.34\%, p<0.001$	$I^2=99.99\%, p<0.001$	$I^2=93.53\%, p<0.001$	$I^2=92.64\%, p<0.001$	$I^2=44.67\%, p=0.108$	$I^2=68.85\%, p=0.007$
Test of overall effect			$Z=-31.93, p<0.001$	$Z=6.59, p<0.001$	$Z=5.64, p<0.001$	$Z=5.06, p<0.001$	$Z=12.39, p<0.001$	$Z=-9.10, p<0.001$

2007

Hu J, 2010 ³⁹	Hubei	NSS	5 / 66579					6
Dai GH, 2010 ²⁰	Hubei	NSS	50 / 509461					5
Zhou XK, 2009 ¹⁸	Hubei	MCH	3 / 28830	28830 / 29172				3
Guo YL, 2008 ⁵⁵	Guangdong	MCH	0 / 4593					5
Tian ZW, 2011 ²⁶	Henan	NSS	3 / 26249					5
Tang GZ, 2008 ²⁴	Hubei	NSS	5 / 32321					7
Shi XY, 2009 ⁵⁶	Shandong	NSS	7 / 43504					5
Chen WX, 2010 ²⁵	Guizhou	NSS	2 / 8040	8040 / 11114				5
Wu M, 2011 ²¹	Hunan	NSS	6 / 21005	21005 / 31938				3
Zhao J, 2010 ¹⁹	Hubei	NSS	2 / 6766	6766 / 10210				5
An FL, 2009 ¹²	Henan	NSS	4 / 12292					4
Ma JQ, 2007 ²⁸	Guangdong	NSS	2 / 5571	5571 / 5571				7
Du WJ, 2010 ⁵⁷	Zhejiang	Hospital	2 / 4031					4
Wang YX, 2011 ⁵⁸	Guangdong	NSS	25 / 42425					3
Chen ZY, 2010 ³¹	Henan	NSS	92 / 151980	720605 / 773929	49 / 54			4
Wang LQ, 2011 ²⁹	Yunnan	MCH	2 / 2672					3
Liu JR, 2011 ³⁰	Hubei	NSS	4 / 5133					7
Liu CX, 2012 ⁴²	Yunnan	MCH	8 / 7061					7
Wang FK, 2009 ⁵⁹	Henan	NSS	78 / 53056					6

Lan Z, 2009 ³⁵	Guangxi	MCH	6 / 3114						5
Tan XL, 2010 ⁶⁰	Chongqing	Hospital	1 / 454						3
Ma Q, 2012 ³²	Yunnan	NSS	71 / 27414	27414 / 33893					7
Gui XZ, 2012 ⁶¹	Guangxi	NSS	19 / 6885	6885 / 7019					6
Song LP, 2012 ⁶²	Guangxi	NSS	251 / 86552						7
Gui XZ, 2008 ⁶³	Guangxi	NSS	14 / 4639						3
Wang SW, 2008 ⁶⁴	Henan	NSS	276 / 73702		121 / 121			2 / 82	3
Yang L, 2008 ¹⁰	Yunnan	NSS	113 / 23317						7
Xu MY, 2011 ¹⁷	Guangxi	NSS	11 / 1874						6
Zhou XC, 2012 ³⁷	Shanxi	MCH		36424 / 42760					3
Fang LW, 2010 ³⁴	National	NSS	1739 / 1524595	1524595 / 1753191	857 / 1284	1053 / 1257	570 / 756		7
Chen WM, 2009 ⁶⁵	Henan	NSS			27 / 37	33 / 38			6
Wang Q, 2012 ³⁸	Multi provinces	NSS			306 / 395	338 / 395			3
Wang CJ, 2009 ⁶⁶	Henan	MCH			62 / 69	71 / 71		1 / 51	3
Pan LH, 2008 ⁶⁷	Guangxi	Hospital			50 / 55	53 / 56			6
Zhang CF, 2011 ⁴⁹	Yunnan	MCH			50 / 53			3 / 34	7
Pang J, 2008 ⁶⁸	Guangxi	Hospital			73 / 73				6
Li MH, 2009 ⁶⁹	Henan	NSS				47 / 60			4
Wang LH, 2008 ⁷⁰	Multi provinces	NSS						38 / 287	5
Pooled estimates from meta-analysis (95%CI)			0.07% (0.05-0.11%)	89.67% (85.34-92.82%)	86.84% (79.24-91.94%)	85.43% (80.99-88.97%)	75.40% (72.20-78.34%)	6.25% (2.39-15.36%)	
Test of heterogeneity			$I^2=97.91\%$, $p<0.001$	$I^2=99.98\%$, $p<0.001$	$I^2=89.56\%$, $p<0.001$	$I^2=57.99\%$, $p=0.036$	$I^2=0\%$, $p=1.00$	$I^2=69.44\%$, $p=0.020$	
Test of overall effect			$Z=-39.11$, $p<0.001$	$Z=10.62$, $p<0.001$	$Z=6.76$, $p<0.001$	$Z=10.86$, $p<0.001$	$Z=13.26$, $p<0.001$	$Z=-5.30$, $p<0.001$	

2008

Wu M, 2011 ²¹	Hunan	NSS	2 / 25434	25434 / 34608					3
Dai GH, 2010 ²⁰	Hubei	NSS	47 / 546946						5
Hu J, 2010 ³⁹	Hubei	NSS	7 / 73319						6
Cao YZ, 2011 ⁷¹	Guangdong	Hospital	15 / 126373	126373 / 140414					3
An FL, 2009 ¹²	Henan	NSS	2 / 13455						4
Tian ZW, 2011 ²⁶	Henan	NSS	5 / 32457						5
Zhao J, 2010 ¹⁹	Hubei	NSS	2 / 7751	7751 / 10872					5

Chen WX, 2010 ²⁵	Guizhou	NSS	3 / 9500	9500 / 11647					5
Wang YX, 2011 ⁵⁸	Guangdong	NSS	23 / 44852						3
Liu JR, 2011 ³⁰	Hubei	NSS	4 / 5441						7
Huang XN, 2009 ⁷²	Guangdong	Hospital	1 / 1187						7
Wang LQ, 2011 ²⁹	Yunnan	MCH	3 / 2954						3
Wang FK, 2009 ⁵⁹	Henan	NSS	86 / 73343						6
Liu CX, 2012 ⁴²	Yunnan	MCH	10 / 7788						7
Weng YQ, 2010 ⁷³	Guangxi	NSS	47 / 29023						5
He BC, 2012 ⁷⁴	Yunnan	NSS	5 / 2931	2931 / 3191					7
Ma Q, 2012 ³²	Yunnan	NSS	64 / 32342	32342 / 33054					7
Xu MY, 2011 ¹⁷	Guangxi	NSS	4 / 1892						6
Song LP, 2012 ⁶²	Guangxi	NSS	337 / 134800						7
Gui XZ, 2012 ⁶¹	Guangxi	NSS	15 / 5672	5672 / 5770					6
Li L, 2008 ⁷⁵	Shanxi	Hospital	3 / 468						6
Zhou FR, 2010 ⁷⁶	Shandong	NSS		57064 / 83370					4
Fang LW, 2010 ³⁴	National	NSS	2355 / 1833246	1833246 / 2055232	977 / 1316	1116 / 1249	871 / 1177		7
Zhang N, 2008 ⁷⁷	Multi provinces	Hospital			20 / 40	20 / 37			4
Meng XN, 2008II ⁷⁸	Guangxi	NSS			22 / 35	32 / 35			3
Wang LH, 2010 ⁷⁹	Multi provinces	NSS			856 / 1072		31 / 1072		6
Pang J, 2009 ⁸⁰	Guangxi	Hospital			76 / 92				6
Wang Q, 2012 ³⁸	Multi provinces	NSS			373 / 445	414 / 445			3
Wang LH, 2009I ⁸¹	Multi provinces	NSS			278 / 312		40 / 312		5
Zhang CF, 2011 ⁴⁹	Yunnan	MCH			69 / 76		3 / 46		7
Sun GQ, 2009 ⁸²	Henan	NSS			332 / 352	339 / 362	31 / 1072		5
Fan EJ, 2010 ⁸³	Henan	NSS			141 / 141	142 / 142	107 / 107	7 / 107	3
Dou YY, 2010 ⁸⁴	Guangxi	Hospital					42 / 54	0 / 42	3
Pooled estimates from meta-analysis (95%CI)			0.07% (0.05-0.10%)	88.93% (83.11-92.92%)	82.71% (76.62-87.48%)	89.75% (81.82-94.45%)	81.79% (64.77-91.65%)	5.56% (2.79-10.76%)	
Test of heterogeneity			$I^2=97.15\%, p<0.001$	$I^2=99.98\%, p<0.001$	$I^2=92.68\%, p<0.001$	$I^2=90.80\%, p<0.001$	$I^2=79.24\%, p=0.008$	$I^2=88.60\%, p<0.001$	
Test of overall effect			$Z=-38.69, p<0.001$	$Z=8.33, p<0.001$	$Z=8.11, p<0.001$	$Z=10.86, p<0.001$	$Z=3.30, p=0.001$	$Z=-7.74, p<0.001$	

Dai GH, 2010 ²⁰	Hubei	NSS	50 / 533799		43 / 101	50 / 98	25 / 30		5
Zhang SW, 2012 ⁸⁵	Anhui	NSS	13 / 132362	132362 / 178105					7
Li YL, 2011 ⁸⁶	Shanxi	MCH	2 / 18398	18398 / 45969					3
Cao YZ, 2011 ⁷¹	Guangdong	Hospital	14 / 121606	121606 / 135115					3
Li Y, 2012 ⁸⁷	Guizhou	MCH	12 / 98956						5
Tian ZW, 2011 ²⁶	Henan	NSS	5 / 34381						5
Wang LQ, 2011 ²⁹	Yunnan	MCH	1 / 2829						3
Li Y, 2011 ⁸⁸	Guangxi	MCH	2 / 5593						4
Zhao F, 2010 ⁸⁹	Shaanxi	Hospital	1 / 1706						6
Wang YX, 2011 ⁵⁸	Guangdong	NSS	34 / 41195						3
Chen WX, 2010 ²⁵	Guizhou	NSS	8 / 9323	9323 / 11168					5
Song LP, 2012 ⁶²	Guangxi	NSS	373 / 373000						7
Wang FK, 2009 ⁵⁹	Henan	NSS	43 / 34122			298 / 326	221 / 224	7 / 221	6
Zhu FY, 2010 ⁹⁰	Guangdong	NSS	63 / 41783	41783 / 45081	30 / 30	30 / 30			5
Liu CX, 2012 ⁴²	Yunnan	MCH	20 / 13047						7
Wu M, 2011 ²¹	Hunan	NSS	38 / 24549	24549 / 39540					3
Xu MY, 2011 ¹⁷	Guangxi	NSS	3 / 1904						6
He BC, 2012 ⁷⁴	Yunnan	NSS	8 / 3399	3399 / 3640					7
Ma Q, 2012 ³²	Yunnan	NSS	94 / 38239						7
Gui XZ, 2012 ⁶¹	Guangxi	NSS	19 / 5988	5988 / 6037					6
Zhou FR, 2010 ⁷⁶	Shandong	NSS		104002 / 141505					4
Fang LW, 2010 ³⁴	National	NSS	3662 / 3741337	3741337 / 4375678	1554 / 2065	1701 / 2059	652 / 895		7
Zhou XC, 2012 ³⁷	Shanxi	MCH		46460 / 51388					3
Mao XM, 2012 ⁹¹	Yunnan	NSS		23771 / 25298	69 / 88	81 / 90	55 / 60	0 / 55	6
Fang FM, 2011 ⁹²	Zhejiang	MCH		16996 / 16996					7
Yu L, 2012 ⁹³	Guangxi	NSS			139 / 194			13 / 194	6
Wang F, 2010 ⁹⁴	Multi provinces	NSS			3046 / 3808				5
Zhang CF, 2011 ⁴⁹	Yunnan	MCH			116 / 122			1 / 87	7
Peng RY, 2010 ⁹⁵	Yunnan	Hospital			92 / 94	92 / 94			5
Liao FL, 2010 ⁹⁶	Guangxi	Hospital			31 / 31	32 / 32			3
Gao LP, 2009 ⁹⁷	Yunnan	MCH			90 / 90	90 / 92		3 / 92	4

Meng CL, 2011 ⁹⁸	Guangxi	Hospital		129 / 129	129 / 129		0 / 129	6
Han BY, 2010 ⁹⁹	Henan	MCH				85 / 85	2 / 85	4
Wang LH, 2009II ¹⁰⁰	Multi provinces	NSS				554 / 554	57 / 554	7
Zhou ZQ, 2010 ¹⁰¹	Yunnan	NSS					2 / 193	6
Pooled estimates from meta-analysis (95%CI)			0.06% (0.05-0.09%)	88.42% (83.53-91.99%)	81.85% (75.55-86.80%)	92.39% (84.97-96.31%)	95.92% (84.99-98.98%)	3.10% (1.59-5.97%)
Test of heterogeneity			$I^2=96.84\%, p<0.001$	$I^2=99.99\%, p<0.001$	$I^2=92.69\%, p<0.001$	$I^2=92.78\%, p<0.001$	$I^2=92.53\%, p<0.001$	$I^2=77.72\%, p<0.001$
Test of overall effect			$Z=-45.33, p<0.001$	$Z=9.75, p<0.001$	$Z=7.82, p<0.001$	$Z=6.40, p<0.001$	$Z=4.35, p<0.001$	$Z=-9.86, p<0.001$

2010

Tian ZW, 2011 ²⁶	Henan	NSS	1 / 53616					5
Zhang SW, 2012 ⁸⁵	Anhui	NSS	4 / 138485	138485 / 197582				7
Li Y, 2012 ⁸⁷	Guizhou	MCH	9 / 124587					5
Pang CH, 2012 ¹⁰²	Guangxi	NSS	10 / 118119					6
Cao YZ, 2011 ⁷¹	Guangdong	Hospital	18 / 126036	126036 / 136996				3
Wu M, 2011 ²¹	Hunan	NSS	106 / 591000	591000 / 803640				3
Li Y, 2011 ⁸⁸	Guangxi	MCH	2 / 7312					4
Wu HY, 2012 ¹⁰³	Guangxi	NSS	11 / 32734	32734 / 44672				5
Sun YP, 2011 ¹⁰⁴	Xinjiang	NSS	0 / 890					5
Song LP, 2012 ⁶²	Guangxi	NSS	460 / 766232					7
Hang H, 2011 ¹⁰⁵	Zhejiang	MCH	0 / 800					3
Wang LQ, 2011 ²⁹	Yunnan	MCH	2 / 2888					3
Wang YX, 2011 ⁵⁸	Guangdong	NSS	34 / 44197		25 / 49			3
Liu CX, 2012 ⁴²	Yunnan	MCH	12 / 9934					7
Ma Q, 2012 ³²	Yunnan	NSS	79 / 35840			347 / 347	8 / 347	7
Zhou Y, 2012 ¹⁰⁶	Guangxi	MCH	1 / 400					6
He BC, 2012 ⁷⁴	Yunnan	NSS	9 / 3575	3575 / 3682				7
Gui XZ, 2012 ⁶¹	Guangxi	NSS	16 / 5684	5684 / 5718	177 / 208	187 / 207		6
Xu MY, 2011 ¹⁷	Guangxi	NSS	8 / 2037					6
Fan LP, 2011 ¹⁰⁷	Xinjiang	Hospital	33 / 3008					6
Su GY, 2011 ¹⁰⁸	Sichuan	NSS	94 / 3491					3
Pang J, 2011 ¹⁰⁹	Guangxi	Hospital			136 / 136			5

Huang NY, 2012 ¹¹⁰	Guangxi	MCH					73 / 73	3 / 73	7
Jiang CQ, 2011 ¹¹¹	Yunnan	MCH						1 / 105	4
Shang YL, 2010 ¹¹²	Henan	MCH						2 / 138	4
Pooled estimates from meta-analysis (95%CI)			0.07% (0.03-0.14%)	90.59% (86.65-93.45%)	86.16% (53.20-97.15%)	90.34% (85.50-93.68%)	99.69% (97.82-99.96%)	2.29% (1.36-3.83%)	
Test of heterogeneity			$I^2=99.00\%$, $p<0.001$	$I^2=99.98\%$, $p<0.001$	$I^2=94.08\%$, $p<0.001$	$I^2=0\%$, $p=1.00$	$I^2=0\%$, $p=0.438$	$I^2=0\%$, $p=0.520$	
Test of overall effect			$Z=-18.27$, $p<0.001$	$Z=11.27$, $p<0.001$	$Z=2.11$, $p=0.035$	$Z=9.50$, $p<0.001$	$Z=5.78$, $p<0.001$	$Z=-13.87$, $p<0.001$	

2011

Zhang SW, 2012 ⁹⁵	Anhui	NSS	11 / 200164	200164 / 223985					7
Li Y, 2012 ⁸⁷	Guizhou	MCH	19 / 102345						5
Wu HY, 2012 ¹⁰³	Guangxi	NSS	16 / 49250	49250 / 54063					5
Wu JH, 2012 ¹¹³	Guangdong	MCH	3 / 8442						6
Pooled estimates from meta-analysis (95%CI)			0.02% (0.01-0.04%)	90.26% (88.43-91.83%)					
Test of heterogeneity			$I^2=86.64\%$, $p=0.469$	$I^2=99.29\%$, $p<0.001$					
Test of overall effect			$Z=-20.70$, $p<0.001$	$Z=22.60$, $p<0.001$					

Table S2. Result of individual variable meta-regression models for meta-analysis.

Study characteristics	Study factors		
	Sample size	Recruitment venue*	Study year
HIV prevalence among pregnant women	$\beta = 0.000$ $p = 0.075$	$\beta = -0.085$ $p = 0.266$	$\beta = -0.104$ $p = 0.000$
HIV testing rate among pregnant women	$\beta = 0.000$ $p = 0.823$	$\beta = 0.948$ $p = 0.000$	$\beta = 0.218$ $p = 0.000$
HIV-positive pregnant women received ARV prophylaxis	$\beta = -0.001$ $p = 0.307$	$\beta = 0.473$ $p = 0.000$	$\beta = 0.113$ $p = 0.404$
ARV prophylaxis among infants who born to diagnosed HIV-positive mother	$\beta = 0.000$ $p = 0.732$	$\beta = 0.604$ $p = 0.001$	$\beta = 0.200$ $p = 0.026$
HIV testing among infants remained in care until age of 18-month	$\beta = -0.002$ $p = 0.000$	$\beta = 0.429$ $p = 0.086$	$\beta = 0.170$ $p = 0.212$
Infants tested HIV-positive at 18 th month	$\beta = 0.000$ $p = 0.946$	$\beta = -0.322$ $p = 0.063$	$\beta = -0.302$ $p = 0.001$

* 1: national surveillance sites; 2: hospital; 3: maternal and child health center. Table showing the meta-regression coefficient (β) and significance of β (p -value). p -values in bold print represent significant associations ($p < 0.10$).

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