

## Invasive pneumococcal disease (IPD) case-control study update

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The invasive pneumococcal disease (IPD) case-control study is well into its third year of enrollment. To date (17 April 2013) the surveillance officers have screened 976 children < 5 years of age with IPD for the case-control study. Of these children 824 were screened for the PCV-7 study and 152 for the PCV-13 study. Out of the nearly 1000 children screened, 575 children were age-eligible for the study (423 for the PCV-7 and 152 for the PCV-13 study) and only 32 of these eligible children were not successfully enrolled into the study. The numbers enrolled per site are shown in tables 1 and 2.

In total 465 cases have already being closed in the study (371 for PCV-7 and 94 for PCV-13). Overall closed HIV-negative cases have an average of 5 controls and HIV-positive cases 3.8 controls.

As shown in the progress graph the numbers of HIV-infected cases enrolled into the PCV-13 component of the study are lower than projected. We have added additional new sites to try and help with enrolment numbers.

Table 1: Number of open and closed cases and controls by site and HIV serostatus, PCV-7 IPD case-control study, South Africa, as on 17 April 2013

Facility	Closed				Open			
	HIV-negative		HIV-positive		HIV-negative		HIV-positive	
	cases	controls	cases	controls	cases	controls	cases	controls
Addington	15	60	3	12	0	0	0	0
Charlotte Maxeke	23	116	15	55	0	0	1	2
Chris Hani Baragwanath	41	196	20	92	1	1	3	6
Edendale/Greys	9	42	5	24	0	0	0	0
George Mukhari	8	39	2	13	0	0	0	0
Kalafong	6	31	7	26	0	0	0	0
Kimberley	14	56	8	24	0	0	1	0
King Edward	4	16	3	7	1	0	0	0
Mankweng	2	11	1	5	0	0	0	0
Natalspruit								
Nelson Mandela	6	29	2	4	2	3	1	0
Northdale								
Pelonomi/Universitas	17	94	4	11	0	0	0	0
Polokwane	3	16	1	2	0	0	0	0
Rahima Moosa	26	134	19	85	0	0	1	1
Red Cross/ Groote Schuur	38	202	11	33	1	4	1	3
RK Khan	4	23	9	31	0	0	5	10
Rob Ferreira	1	4	3	7	1	0	2	3
Rustenberg	5	22	3	9	0	0	0	0
Steve Biko/Tshwane	4	17	8	22	1	2	0	0
Themba	3	17	0	0	0	0	0	0
Tygerberg	15	66	3	8	0	0	0	0
Total	244	1191	127	470	7	10	15	25

Table 2: Number of open and closed cases and controls by site and HIV serostatus, PCV-13 IPD case-control study, South Africa, as on 17 April 2013

	Closed				Open			
	HIV-negative cases	HIV-negative controls	HIV-positive cases	HIV-positive controls	HIV-negative cases	HIV-negative controls	HIV-positive cases	HIV-positive controls
Addington	2	10	0	0	0	0	0	0
Charlotte Maxeke	8	45	2	8	3	5	0	0
Chris Hani Baragwanath	13	71	3	18	5	13	5	8
Edendale/Greys	3	12	0	0	0	0	0	0
George Mukhari	3	16	2	5	0	0	3	6
Kalafong	3	15	1	3	0	0	0	0
Kimberley	3	12	1	6	0	0	1	0
King Edward	1	6	1	2	4	5	0	0
Mankweng	1	7	0	0	0	0	0	0
Natalspruit								
Nelson Mandela	2	9	0	0	3	7	4	0
Northdale								
Pelonomi/Universitas	6	30	0	0	4	3	2	0
Polokwane	1	6	0	0	0	0	1	0
Rahima Moosa	8	46	2	9	1	0	2	0
Red Cross/ Groote Schuur	17	93	1	4	1	5	1	0
RK Khan	1	6	1	2	0	0	1	2
Rob Ferreira	2	13	0	0	0	0	1	1
Rustenberg	1	4	0	0	3	2	1	0
Steve Biko/Tshwane	1	4	0	0	2	4	1	1
Themba	0	0	0	0	0	0	0	0
Tygerberg	3	19	1	2	1	0	1	5
<b>Total</b>	<b>79</b>	<b>424</b>	<b>15</b>	<b>59</b>	<b>27</b>	<b>44</b>	<b>24</b>	<b>23</b>

