## Performance Report 2017 / 18

# Immunisations

#### Seasonal Flu

Aged 65 and over	Period	Airedale, Wharfdale and Craven CCG	Bradford City CCG	Bradford Districts CCG	Calderdale CCG	Greater Huddersfield CCG	Leeds North CCG	Leeds South & East CCG	Leeds West CCG	North Kirklees CCG	Wakefield CCG
2016/17	October	54.30%	58.60%	56.50%	57.10%	55.40%	59.10%	58.20%	57.90%	57.40%	56.00%
	November	67.00%	68.10%	67.40%	67.50%	66.30%	71.80%	70.10%	71.10%	68.10%	67.50%
	December	71.30%	72.20%	71.50%	70.10%	69.70%	74.40%	73.40%	74.00%	71.70%	70.50%
	January	72.00%	73.70%	72.80%	71.40%	70.60%	75.30%	74.80%		72.80%	71.50%
	Sept 2016 - March 2017	72.00%	73.70%	72.80%	71.40%	70.60%	75.30%	74.80%	72.30%	72.80%	71.50%
2017/18	October										
	November										
	December										
	January										
	Sept 2017 - March 2018										
Trend											
Lower threshold	70%										
Standard	75%										
Commentary	England Average 1	6/17 -70.5 %. Percent	ages have increased sin	ce last year and denor	minators are increasir	g/ more patients bein	g vaccinated 15/16 fig	gures - AWC CCG 72.55	6, Bradford City CCG -	74.8%, Bradford Distri	icts CCG 73.2%

Under 65 (at-risk only	1)										
Financial Year	Period	Airedale, Wharfdale and Craven CCG		Bradford Districts CCG		Greater Huddersfield CCG		Leeds South & East CCG	Leeds West CCG	North Kirklees CCG	Wakefield CCG
2016/17	October	30.60%	37.60%	33.70%	34.00%	32.40%	34.30%	32.30%	31.10%	34.00%	33.00%
	November	41.10%	47.10%	42.70%	45.70%	43.20%	44.70%	43.40%			
	December	45.80%	52.10%	47.60%	49.70%	47.80%	49.00%	47.90%	47.30%	48.40%	47.10%
	January	46.80%	54.10%	49.30%	51.60%	49.20%	50.60%	49.60%		50.00%	48.60%
	Sept 2016 - March 2017	46.80%	54.10%	49.30%	51.60%	49.20%	50.60%	49.60%	34.30%	50.00%	48.60%
2017/18	October										
	November										
	December										
	January										
	Sept 2017 - March										
	2018										
Trend											
Lower threshold	50%										
Standard	55%										
	England Average 1 51.6%	6/17 - 48.6%. Percenti	ages look to have decre	ased since last year in	some areas but denor	minators are increasing	g and more patients b	eing vaccinated. 15/1	6 AWC CCG - 45%, Bra	dford City CCG - 45%,	Bradford City CCG -

All Pregnant Wome	n										
Financial Year	Period	Airedale, Wharfdale and Craven CCG	Bradford City CCG	Bradford Districts CCG	Calderdale CCG	Greater Huddersfield CCG		Leeds South & East CCG	Leeds West CCG	North Kirklees CCG	Wakefield CCG
2016/17	October	35.90%	34.80%	31.60%	45.10%	39.20%	23.40%	15.60%	23.80%	31.50%	33.90%
	November	46.30%	45.10%	39.30%	54.80%	48.40%	51.40%	42.20%	49.80%	40.10%	43.00%
	December	50.50%	47.80%	44.30%	54.80%	51.00%	53.40%	45.60%	51.70%	43.80%	45.20%
	January	49.70%	47.60%	44.10%	54.70%	51.40%	54.60%	52.20%	54.60%	44.30%	46.30%
	Sept 2016 - March 2017	49.70%	47.60%	44.10%	54.70%	51.40%	54.60%	52.20%	54.60%	44.30%	46.30%
2017/18	October										
	November										
	December										
	January										
	Sept 2017 - March 2018										
Trend											
Lower threshold Standard	N/A										
Commentary		N/A England average 15/17 44.9%. All areas have increased in uptake in Bradford. 15/16 AWC CCG-45.7%, Bradford City CCG 41.5%, Bradford Districts CCG-39.4%									

Commentary Childrens nasal flu has porcine content which affects the uptake in the childrens programme

All Aged 3											
Financial Year	Period	Airedale, Wharfdale and Craven CCG	Bradford City CCG	Bradford Districts CCG		Greater Huddersfield CCG	Leeds North CCG	Leeds South & East CCG	Leeds West CCG	North Kirklees CCG	Wakefield CCG
2016/17	October	16.50%	15.20%	16.20%	24.00%	23.10%	26.40%	21.00%	22.10%	11.90%	21.40%
	November	33.40%	23.70%	26.00%	35.50%	35.50%	40.50%	37.60%	38.50%	21.70%	36.50%
	December	39.50%	28.40%	31.50%	39.50%	40.40%	44.60%	42.70%	44.90%	25.40%	41.60%
	January	41.20%	29.80%	32.80%	40.20%	41.80%	45.90%	44.60%	46.80%	26.00%	43.50%
	Sept 2016 - March 2017	41.20%	29.80%	32.80%	40.20%	41.80%	45.90%	44.60%	46.80%	26.00%	43.50%
2017/18	October										
	November										
	December										
	January										
	Sept 2017 - March 2018										
Trend											
Lower threshold	30%										
Standard	40%										
Commentary		Childrens nasal flu has porcine content which affects the uptake in the childrens programme.									

Financial Year		Airedale, Wharfdale and Craven CCG		Bradford Districts CCG	Calderdale CCG	Greater Huddersfield CCG	Leeds North CCG	Leeds South & East CCG	Leeds West CCG	North Kirklees CCG	Wakefield CCG
2016/17	October	10.90%	10.20%	13.40%	17.50%	16.80%	20.80%	15.10%	15.00%	11.40%	15.20%
	November	25.20%	14.90%	20.10%	27.50%	26.20%	32.00%	27.50%	27.80%	18.90%	26.70%
	December	30.90%	18.80%	23.90%	31.00%	29.50%	36.00%	31.70%	32.10%	22.60%	31.20%
	January	32.50%	20.50%	24.80%	32.10%	30.00%	36.90%	32.80%	33.50%	23.10%	32.10%
	Sept 2016 - March 2017	32.50%	20.50%	24.80%	32.10%	30.00%	36.90%	32.80%	33.50%	23.10%	32.10%
2017/18	October										
	November										
	December										
	January										

Childrens nasal flu has porcine content which affects the uptake in the childrens programme

Financial Year	Period	Bradford LA	Calderdale LA	Kirklees LA	Leeds LA	Wakefield LA
2016/17	October	13.20%	0.00%	26.60%	12.60%	0.009
	November	38.30%	59.00%	55.80%	43.60%	50.409
	December	53.80%	63.90%	59.70%	52.40%	61.609
	January	54.10%	63.90%	59.70%	52.80%	62.609
	Sept 2016 - March					
	2017	51.10%	63.90%	59.70%	52.80%	62.609
2017/18	October					
	November					
	December					
	January					
	Sept 2017 - March					
	2018					
Trend						
Lower threshold	50%					
Standard	65%					

Financial Year	Period	Bradford LA	Calderdale LA	Kirklees LA	Leeds LA	Wakefield LA				
2016/17	October	12.20%	0.00%	26.30%	12.20%	0.00%				
	November	36.50%	55.40%	53.30%	43.30%	50.00%				
	December	51.10%	63.30%	61.50%	52.50%	61.20%				
	January	51.40%	63.30%	61.50%	53.10%	62.10%				
	Sept 2016 - March 2017	51.40%	63.30%	61.50%	53.10%	62.10%				
2017/18	October									
	November									
	December									
	January									
	Sept 2017 - March 2018									
Trend										
Lower threshold	50%									
Standard	65%									
Commentary	c	Childrens nasal flu has porcine content which affects the uptake in the childrens programme.								

# Y3 7-8yr olds

Financial Year	Period	Bradford LA	Calderdale LA	Kirklees LA	Leeds LA	Wakefield LA			
2016/17	October	11.70%		27.30%	12.10%				
	November	34.20%	56.90%	51.00%	40.70%	42.90%			
	December	48.50%	60.70%	56.10%	49.80%	58.70%			
	January	48.70%	60.70%	56.10%	50.00%	59.60%			
	Sept 2016 - March								
	2017	48.70%	60.70%	56.10%	50.00%	59.60%			
2017/18	October								
	November								
	December								
	January								
	Sept 2017 - March 2018								
Trend									
Lower threshold	50%								
Standard	65%								
Commentary	(	Childrens nasal flu has porcine content which affects the uptake in the childrens programme.							

Y4 8-9yr olds

14 8-9yr olds									
Financial Year	Period	Bradford LA	Calderdale LA	Kirklees LA	Leeds LA	Wakefield LA			
2017/18	October								
	November								
	December								
	January								
	Sept 2016 - March								
	2017								
Trend									
Lower threshold	50%								
Standard	65%								
Commentary	New age group for 2017/18								

Financial Year			Bradford District Care	Hospitals NHS	Huddersfield NHS		Leeds Teaching		Mid Yorkshire		West Yorkshire Area Team Healthcare Workers
2016/17	October	45.40%	52.20%	54.00%	52.20%	53.40%	54.50%	32.30%	62.20%	4.40%	56.20%
	November	66.60%	70.70%	65.80%	59.10%	69.50%	75.50%	45.90%	75.60%	16.70%	59.00%
	December	75.60%	75.90%	75.40%	76.00%	76.80%	79.50%	54.40%	79.30%	18.40%	59.00%
	January	75.70%	80.40%	76.10%	76.60%	76.90%	79.70%	55.00%	79.90%	18.40%	60.90%
	Sept 2016 - March 2017	75.70%	80.70%	76.20%	76.60%	76.90%	79.90%		79.90%	18.40%	61.10%
2017/18	October										
	November										
	December										
	January										
	Sept 2017 - March										
	2018										
Trend											
Standard	75%										

### Adult immunisations

Received the Pneumococcal	(PPV) vaccine at any time	
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Received the Pneum	reumococcal (PPV) vaccine at any time											
Financial Year	Period	Airedale, Wharfdale and Craven CCG	Bradford City CCG	Bradford Districts CCG		Greater Huddersfield CCG	North Kirklees CCG		Leeds South & East CCG	Leeds West CCG	Wakefield CCG	West Yorkshire
2013/14	Annual	69.909	77.30%	73.40%	67.30%	68.50%	65.10%	72.80%	73.50%	70.90%	71.10%	70.80%
2014/15	Annual	71.009	78.60%	74.70%	69.80%	69.80%	66.90%	74.40%	74.90%	69.10%	71.40%	71.60%
2015/16	Annual	71.009	79.00%	75.30%	69.90%	70.00%	68.20%	75.30%	75.50%	70.60%	71.90%	72.30%
	Annual	71.109	81.10%	74.70%	72.40%	71.30%	71.20%	75.80%	76.00%	71.20%	73.90%	73.30%
2017/18	Annual											
Trend												
Lower threshold	6	5%										
Standard	7	5%										
Commentary		within standards										

Shingles	ingles												
Financial Year	Period	КРІ	Airedale, Wharfdale and Craven CCG		Bradford Districts CCG	Calderdale CCG	Greater Huddersfield CCG	North Kirklees CCG		Leeds South & East CCG	Leeds West CCG	Wakefield CCG	
2017/18	April	Aged 70	47.90%	40.70%	46.80%	50.10%	49.90%	46.70%	50.60%	46.50%	48.10%	44.40%	
		Aged 78	49.50%	44.80%	46.70%	48.30%	50.90%	51.30%	45.80%	47.90%	47.00%	43.20%	
	May	Aged 70	49.70%	40.40%	47.20%	50.80%	50.00%	47.50%	51.80%	47.80%	48.70%	45.40%	
		Aged 78	51.90%	45.50%	48.20%	49.10%	50.90%	51.70%	46.50%	50.30%	47.80%	44.80%	
	June	Aged 70	50.50%	42.60%	47.50%	51.20%	50.10%	48.60%	53.40%	49.20%	49.30%	46.10%	
		Aged 78	53.00%	47.10%	48.50%	50.00%	50.80%	52.80%	48.00%	51.00%	48.50%	45.20%	
	July	Aged 70	51.40%	44.10%	48.60%	51.60%	51.30%	49.80%	54.00%	51.10%	50.30%	47.10%	
		Aged 78	53.50%	47.30%	49.30%	50.90%	52.70%	53.90%	49.50%	52.90%	50.00%	46.80%	
	Aug	Aged 70	51.80%			52.20%	51.70%	50.30%	54.20%	52.50%	51.00%		
		Aged 78	53.60%	47.60%	50.00%	51.60%	53.50%	54.20%	49.50%	53.50%	50.40%	47.80%	
Lower threshold	50%												
Standard	60%												
Commentary		This is an opportunistic vaccination programme. This does not have an official invitation process.											

Prenatal Pertussis	enatal Pertussis											
Financial Year		Airedale, Wharfdale and Craven CCG		Bradford Districts CCG		Greater Huddersfield CCG	North Kirklees CCG		Leeds South & East CCG	Leeds West CCG	Wakefield CCG	
2014/15	Annual	56.00%	52.20%	60.20%	61.90%	60.20%	54.70%	65.60%	70.20%	66.80%	65.80%	
2015/16	Annual	53.50%	53.20%	64.60%	61.90%	61.00%	55.60%	65.70%	68.10%	64.60%	68.00%	
2016/17	Annual											
2016/17	January	79.40%	70.00%	78.00%	85.00%	73.80%	74.00%	87.60%	81.60%	80.30%	84.30%	
	February	83.50%	65.30%	78.10%	82.50%	77.10%	74.50%	77.20%	81.70%	89.90%	83.20%	
	March	80.60%	61.70%	77.30%	80.70%	76.50%	76.20%	77.50%	80.20%	84.20%	82.50%	
2017/18	April	77.50%	63.60%	74.00%	71.00%	70.40%	64.60%	74.00%	70.30%	70.70%	82.10%	
	May	79.20%	65.60%	76.30%	72.00%	67.30%	78.30%	76.20%	77.40%	78.40%	78.50%	
	June	78.20%	63.70%	72.20%	69.20%	63.30%	76.70%	72.60%	73.60%	73.60%	78.60%	
	July	76.00%	62.50%	76.80%	75.80%	73.20%	67.00%	87.60%	79.60%	86.00%	85.80%	
Trend		/	\	/	1	/		1	/	/		
Lower threshold	50%											
Standard	60%		· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·	· · ·	· ·	
Commentary	within standard											

# Childhood and Adolescent Immunisations

Cover data Immunisations 12 months

		2016/17	2016/17	2016/17	2017/18	2017/18	
Local Authority		Q2	Q3	Q4	Q1	Q2	Trend
Bradford	No. children	2004	1951	1928	1960		
	DTaP/IPV/Hib	94.20%	93.60%	94.80%	94.00%		\
	Rotavirus	87.50%	90.00%	90.80%	89.70%		
	PCV	94.00%	93.70%	95.10%	93,90%		_ ^
	Hep B Denominator	10	6	9	6		
	% Hep B (3 doses)	100.00%	100.00%	100.00%	100.00%		
	Men B	92.20%	93.00%	94.50%	93.60%		
Calderdale	No. children	605	638	593	624		
	DTaP/IPV/Hib	93.90%	97.00%	95.40%	94.10%		
	Rotavirus	89.30%	93.70%	92.10%	91.20%		_
	PCV	94.20%	96.70%	95.30%	94.20%		/
	Hep B Denominator	0	0	0	0		
	% Hep B (3 doses)						
	Men B	93.40%	96.20%	94.60%	92.90%		/
Kirklees	No. children	1316	1364	1283	1285		
	DTaP/IPV/Hib	96.00%	95.10%	95.00%	95.40%		/
	Rotavirus	90.70%	91.60%	91.00%	93,70%		
	PCV	96.00%	95,40%	95.20%	95.40%		
	Hep B Denominator	3	11	1	4		
	% Hep B (3 doses)	66.70%	100.00%	100.00%	100.00%		
	Men B	95.30%	94.40%	94.60%	94.80%		
Leeds	No. children	2628	2547	2496	2563		
	DTaP/IPV/Hib	94,90%	94.00%	95.10%	93,70%		\ \
	Rotavirus	92.60%	92.30%	93.50%	91.50%		
	PCV	94,70%	94,40%	95.20%	94.10%		\
	Hep B Denominator	5	13	10	11		
	% Hep B (3 doses)	100.00%	100.00%	100.00%	100.00%		
	Men B	93.30%	93.70%	94.70%	93.40%		
Wakefield	No. children	1098	1057	982	1068		
	DTaP/IPV/Hib	96.20%	95.60%	96.10%	96.80%		
	Rotavirus	94.40%	93.60%	94.10%	96.60%		
	PCV	96.40%	95.70%	95.80%	96.90%		
	Hep B Denominator	0	2	5	5		
	% Hep B (3 doses)	100.00%	100.00%	100.00%	100.00%		
	Men B	95.20%	95.60%	95.60%	96.80%		
	DTaP/IPV/Hib	Rotavirus	PVC Booster	Hep B % (3 doses)	Men B		
Lower threshold	90.00%	90.00%	90.00%	<100	90.00%		
Standard	95.00%	95.00%	95.00%	100.00%	95.00%		

Immun	isations	24	month

Immunisations 24	l months	2016/17	2016/17	2016/17	2017/18	2017/18	
	7	2010/17	2010/17	2010/17	2017/18	2017/18	Trend
Local Authority		Q2	Q3	Q4	Q1	Q2	
Bradford	No. children	2122	1992	1904	1975		
	DTaP/IPV/Hib	95.80%	96.30%	95.90%	95.90%		
	Hib / Men C	93.70%	94.30%	92.70%	92.90%		
	PCV	93.40%	94.30%	92.70%	92.80%		
	Нер В	5	9	9	6		
	Denominator	,			·		
	% Hep B (4 doses)	100.00%	0.00%	100.00%	100.00%		
	Men B	N/A	N/A	N/A	N/A		
	MMR1	93.00%	93,70%	92,40%	92.00%		
Calderdale	No. children	2654	639	583	636		
Calueruale			96.20%	94.90%	97.00%		
	DTaP/IPV/Hib	97.80%					
	Hib / Men C	93.40%	96.40%	93.50%	96.10%		$\sim$
	PCV	93.60%	96.10%	95.40%	96.10%		
	Hep B Denominator	0	0	0	1		
	% Hep B (4 doses)	100.00%	100.00%	100.00%	100.00%		
	Men B				N/A		
	MMR1	92,90%	95.60%	93.30%	96.20%		~
Kirklees	No. children	1383	1376	1292	1255		. ~
Kirkiees	DTaP/IPV/Hib	97.80%	98.00%	97.80%	98.00%		
							-
	Hib / Men C	95.00%	96.10%	96.10%	96.10%		
	PCV	95.70%	96.10%	95.90%	96.50%		
	Hep B Denominator	5	3	5	3		
	% Hep B (4 doses)	40.00%	66.70%	100.00%	100.00%		
	Men B	N/A	N/A	N/A	N/A		
	MMR1	95.50%	95,90%	95.50%	95.90%		
Leeds	No. children	2654	2570	2416	2543		
	DTaP/IPV/Hib	96.60%	96.40%	97.20%	95.80%		_
	Hib / Men C	93.30%	93.80%	94,50%	92.10%		_
	PCV	93.70%	33.00%	94.80%	92.40%		
	Hep B	33.70%		54.00%	32.40/0		
	Denominator	0	19	98	12		
	% Hep B (4 doses)	100.00%	100.00%	100.00%	83.30%		
	Men B	N/A	N/A	N/A	N/A		
	MMR1	93.30%	93.80%	94.20%	92.20%		_
Wakefield	No. children	1076	1060	1024	998		
	DTaP/IPV/Hib	96.80%	97.70%	97.20%	97.40%		
	Hib / Men C	96.30%	95.90%	95.50%	95.10%		
	PCV	96.30%	95.80%	95.60%	95.30%		_
	Hep B	30.30%	53.00%	53.00%	53.3070		_
	Denominator	0	4	1	3		
	% Hep B (4 doses)	0.00%	100.00%	100.00%	100.00%		
	Men B	N/A	N/A	N/A	N/A		
	MMR1	96.20%	95.80%	95.10%	94.70%		_
	DTaP/IPV/Hib	96.20% Hib/MenC	95.80% PVC Booster	95.10% Hep B % (4 doses)	94.70% Men B	MMR1	
				., (			
Lower threshold	9000.00%	90.00%	90.00%	<100	90.00%	N/A	
Standard	9500.00%	95.00%	95.00%	100.00%	95.00%	N/A	

	[	2016/17	2016/17	2016/17	2017/18	2017/18	
ocal Authority		Q2	Q3	Q4	Q1	Q2	Trend
Bradford LA	No.Children	2178	2092	2113	2026	ų.	
	Hib/MenC Booster	96.20%	95,50%	95.80%	95.50%		\_
	DTaP/IPV/Booster	92,40%	91.70%	91.90%	90.60%		_
	MMR 1 dose	97.20%	96.10%	96.40%	96.20%		
	MMR 2 doses	92.00%	91.00%	91.90%	89.70%		~
Calderdale LA	No.Children	726	659	678	699		
	Hib/MenC Booster	94.50%	96.50%	94.70%	95.30%		
	DTaP/IPV/Booster	97.40%	90.60%	96.50%	91.60%		
	MMR 1 dose	95.90%	97.60%	97.50%	97.60%		
	MMR 2 doses	92.60%	92.00%	91.90%	93.00%		
Cirklees LA	No.Children	1424	1461	1418	1351		
	Hib/MenC Booster	96.80%	95.60%	95.70%	96.30%		
	DTaP/IPV/Booster	94.70%	95.10%	97.70%	94.40%		
	MMR 1 dose	98.30%	97.50%	97.40%	97.60%		
	MMR 2 doses	95.90%	95.10%	94.50%	94.40%		
eeds LA	No.Children	2719	2598	2680	2616		
	Hib/MenC Booster	93.60%	93.50%	95.00%	93.20%		
	DTaP/IPV/Booster	96.80%	96.80%	96.80%	96.60%		
	MMR 1 dose	96.40%	96.50%	95.70%	95.90%		
	MMR 2 doses	88.40%	8860.00%	8980.00%	87.20%		
Wakefield LA	No.Children	1077	1131	1079	1108		
	Hib/MenC Booster	95.20%	96.20%	94.70%	95.90%		
	DTaP/IPV/Booster	97.90%	97.50%	90.60%	91.10%		
	MMR 1 dose	97.40%	97.50%	95.90%	97.90%		
	MMR 2 doses	93.60%	93.50%	92.20%	92.70%		
	DTaP/IPV/Hib	Hib/MenC	DTaP/IPV	MMR 1	MMR 2		
Lower threshold	9000.00%	90.00%	90.00%	90.00%	90.00%		1

Financial Year	Vaccine	Bradford LA	Calderdale LA	Kirklees LA	Leeds LA	Wakefield LA
2015/16	Men ACWY Routine Delivered in Y9	71.20%	88.40%	95.30%	92.40%	86.40%
	Men ACWY Y11 Catch Up	63.30%	93.70%	93.80%	82.50%	74.30%
	Td/IPV Routine Delivered in Y9	74.20%	81.20%	86.60%	91.50%	86.50%
	Adolescent Immunisations HPV Cohort 13 Dose 1	91.50%	91.60%	90.30%	94.80%	93.30%
	Adolescent Immunisations HPV Cohort 13 Dose 2	90.10%	89.60%	88.00%	90.80%	91.40%
	Men ACWY Routine Delivered in Y9	72.9	90.7	94.9	90.3	No figure
	Men ACWY Y11 Catch Up	81.4	89	93.7	81.5	No figure
	Td/IPV Routine Delivered in Y9	71.5	92.5	94.1	89.5	No figure
	Adolescent Immunisations HPV Cohort 14 (12 13 year olds, Y8, DOB 1.9.2003- 31.8.2004) Dose 1					
2016/17	Adolescent Immunisations HPV Cohort 14 (12 13 year olds, Y8 in 16/17, DOB 1.9.2003- 31.8.2004) Dose 2	90.6	91.2	92	93.4	91.1
	Adolescent Immunisations HPV Cohort 13 (13 14 year olds, Year 9 in 16/17, DOB 1.9.2020		90.5	87.5	88.6	88.7
	Adolescent Immunisations HPV Cohort 13 (13 14 year olds, Year 9 in 16/17, DOB 1.9.2002- 31.8.2003)Dose 2	90.1	92.7	90	94.8	87.4
	HPV coverage 1 dose (12-13 years)	HPV coverage 2	Men ACWY coverage (13 - 14years)	TD / IPV		
Lower threshold	80	80	60			
Standard	on	gn.	70		1	