

Метод Рабочего журнала для оценки распространённости ВИЧ в условиях умеренных или концентрированных эпидемий

Объединенная программа Организации Объединенных
Наций по ВИЧ/СПИДУ

Всемирная организация здравоохранения

Обзор учебного занятия

- **Цель применения Рабочего журнала**
- Компоненты Рабочего журнала
- Необходимые составляющие
- Сильные стороны Рабочего журнала
- Ограниченные возможности Рабочего журнала
- Результаты

Цель применения Рабочего журнала

- **Оценить национальную распространённость ВИЧ**
 - При концентрированных или умеренных эпидемиях
 - В группах высокого риска
 - В группах низкого риска
 - Партнёры ПИН, РСБ и др.
 - Население в целом
- **Создать эпидемическую кривую**
 - Простая логистическая кривая
 - Двойная логистическая кривая
- **Результаты для программы Spectrum**

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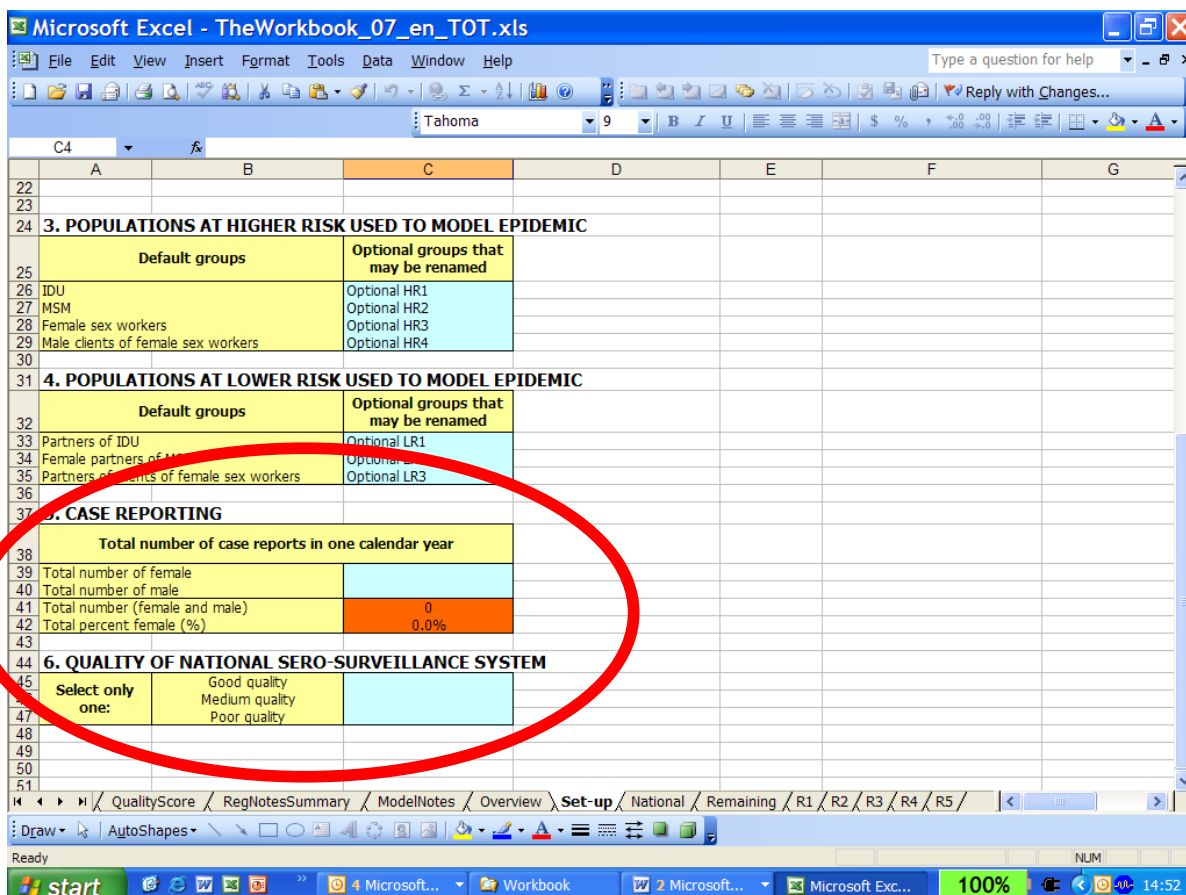
Компоненты рабочего журнала

- Точечная распространенность
- Оценка эпидемической кривой
- Результаты для программы Spectrum

Рабочий лист «Настройка»

1	A	B	C	D	E	F	G	H	I
2	1. GENERAL INFORMATION	Country Name: Year:							
3									
4	2. OTHER INFORMATION	REGION NAMES	POPULATION	PERCENT URBAN	Source percent urban	POPULATION URBAN	Source Population Size Estimates	Source prevalence estimate	
5	National								
6	R1								
7	R2								
8	R3								
9	R4								
10	R5								
11	R6								
12	R7								
13	R8								
14	R9								
15	R10								
16	R0								
17									
18									
19	3. RISK GROUPS USED TO MODEL EPIDEMIC	1. Populations at higher risk (PHR)			2. Populations at lower risk (PLR) that are not already included in PHR				
20		IDU			Partners of IDU				
21		MSM			Female partners of MSM				
22		Sex workers			Partners of Clients of Sex workers				
23		Clients of sex workers			Optional LR1				
24		Optional HR1			Optional LR2				
25		Optional HR2			Optional LR3				
26		Optional HR3							
27		Optional HR4							
28									
29									
30									
31									
32									

Рабочий лист «Настройка»



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Type a question for help

Tahoma 9

	A	B	C	D	E	F	G
22							
23							
24	3. POPULATIONS AT HIGHER RISK USED TO MODEL EPIDEMIC						
25	Default groups		Optional groups that may be renamed				
26	IDU		Optional HR1				
27	MSM		Optional HR2				
28	Female sex workers		Optional HR3				
29	Male clients of female sex workers		Optional HR4				
30							
31	4. POPULATIONS AT LOWER RISK USED TO MODEL EPIDEMIC						
32	Default groups		Optional groups that may be renamed				
33	Partners of IDU		Optional LR1				
34	Female partners of MSM		Optional LR2				
35	Partners of clients of female sex workers		Optional LR3				
36							
37	5. CASE REPORTING						
38	Total number of case reports in one calendar year						
39	Total number of female						
40	Total number of male						
41	Total number (female and male)		0				
42	Total percent female (%)		0.0%				
43							
44	6. QUALITY OF NATIONAL SERO-SURVEILLANCE SYSTEM						
45	Select only one:	Good quality					
46		Medium quality					
47		Poor quality					
48							
49							
50							
51							

QualityScore / RegNotesSummary / ModelNotes / Overview / **Set-up** / National / Remaining / R1 / R2 / R3 / R4 / R5 /

Draw AutoShapes

Ready NUM

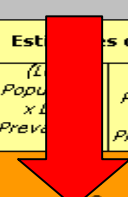
start 4 Microsoft... Workbook 2 Microsoft... Microsoft Exc... 100% 14:52

Рабочий лист «Распространенность» – региональная

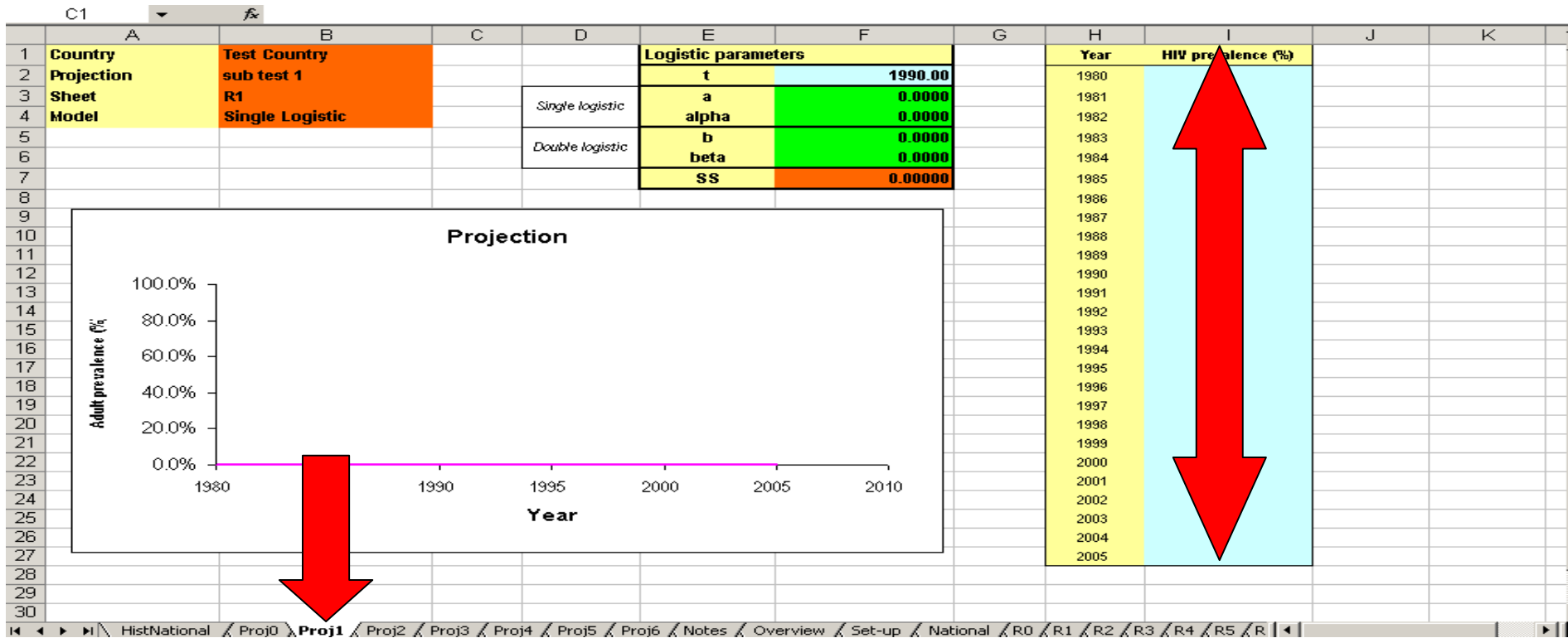
1. Populations at higher risk (PHR)												
Names of higher risk population groups	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female statistics		
	Low estimate	High estimate	Low	High	(Low Population × Low Prevalence)	(Low Population × High Prevalence)	(High Population × Low Prevalence)	(High Population × High Prevalence)		Percent (%) female in risk group	Number of women Infected	Percent (%) of infected who are women
IDU					0	0	0	0	0		0	
MSM					0	0	0	0	0		0	
Sex workers					0	0	0	0	0		0	
Clients of sex workers					0	0	0	0	0		0	
Optional HR1					0	0	0	0	0		0	
Optional HR2					0	0	0	0	0		0	
Optional HR3					0	0	0	0	0		0	
Optional HR4					0	0	0	0	0		0	
Sub-total PHR	0	0							0		0	
2. Populations at lower risk (PLR) that are not already included in PHR												
Method A: Partners of high risk populations	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female statistics		
	Low estimate	High estimate	Low	High	(Low Population × Low Prevalence)	(Low Population × High Prevalence)	(High Population × Low Prevalence)	(High Population × High Prevalence)		Percent (%) female in risk group	Number of women Infected	Percent (%) of infected who are women
Partners of IDU					0	0	0	0	0		0	
Female partners of MSM					0	0	0	0	0		0	
Partners of Clients of Sex workers					0	0	0	0	0		0	

Рабочий лист «Распространенность» – национальная

1. Populations at higher risk (PHR)													
Names of higher risk population groups	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female st.			
	Low	High	Low	High	(Low Population x Low Prevalence)	(Low Population x High Prevalence)	(High Population x Low Prevalence)	(High Population x High Prevalence)		Percent (%) Female in risk group	Number wome Infecte		
10 IDU	0	0	0	0	0	0	0	0	0	0	0	0	
11 MSM	0	0	0	0	0	0	0	0	0	0	0	0	
12 Sex workers	0	0	0	0	0	0	0	0	0	0	0	0	
13 Clients of sex workers	0	0	0	0	0	0	0	0	0	0	0	0	
14 Optional HR1	0	0	0	0	0	0	0	0	0	0	0	0	
15 Optional HR2	0	0	0	0	0	0	0	0	0	0	0	0	
16 Optional HR3	0	0	0	0	0	0	0	0	0	0	0	0	
17 Optional HR4	0	0	0	0	0	0	0	0	0	0	0	0	
18 Sub-Total PHR	0	0	0	0	0	0	0	0	0	0	0	0	
2. Populations at lower risk (PLR) that are not already included in PHR													
Method A: Partners of high risk populations	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female st.			
	Low	High	Low	High	(Low Population x Low Prevalence)	(Low Population x High Prevalence)	(High Population x Low Prevalence)	(High Population x High Prevalence)		Percent (%) Female in risk group	Number wome Infecte		
23 Partners of IDU	0	0	0	0	0	0	0	0	0	0	0	0	
24 Female partners of MSM	0	0	0	0	0	0	0	0	0	0	0	0	
25 Partners of Clients of Sex workers	0	0	0	0	0	0	0	0	0	0	0	0	



Рабочий лист «Эпидемиологическая кривая»



Выбор модели прогнозирования

Country:			Logistic parameters		Year	HIV prevalence (%)	Source
Select one model:	Single logistic		t	1990.00	1980		
	Double logistic		a	0.0000	1981		
			alpha	0.0000	1982		
				0.0000	1983		
				0.0000	1984		
			SS	0.00000000000000	1985		

Projection

Adult prevalence (%)

Year

1980 1985 1990 1995 2000 2005 2010

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- Ограниченные возможности Рабочего журнала
- Результаты

Необходимые составляющие

- **Структура эпидемии**
 - Географические территории
 - Группы риска
- **Точки данных**
 - Группы высокого/низкого риска
 - Размеры групп высокого/низкого риска
 - **МСМ, ПИН, РСБ, клиенты РСБ**
 - Распространенность ВИЧ в группах риска
 - Процент женщин
- **Оценка с помощью эпидемической кривой**
 - Распространенность по годам
 - Установка решателя *Solver™*
 - Сумму квадратов следует свести к минимуму для обеспечения лучшего подбора кривой

Группы высокого риска и потенциальные источники данных о распространенности

- ПИН
- MSM
- РСБ
- Клиенты РСБ
- Обследования ОДЗ
- Первичные и повторные исследования
- Эпиднадзор за группами высокого риска
- Перепись населения

Группы низкого риска и потенциальные источники распространения

- Половые партнеры ПИН
- Половые партнерши MSM
- РСБ
- Половые партнеры клиентов РСБ
- Опубликованные оценки
- Расчеты с допущениями
- ОДЗ
- Перепись населения
- ИППП?

Рабочий лист «Распространенность в группах более высокого риска (ГБВР)»

1. Populations at higher risk (PHR)												
Names of higher risk population groups	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female statistics		
	Low estimate	High estimate	Low	High	(Low Population × Low Prevalence)	(Low Population × High Prevalence)	(High Population × Low Prevalence)	(High Population × High Prevalence)		Percent (%) female in risk group	Number of women Infected	Percent (%) of infected who are women
IDU	0	0	0	0	0	0	0	0	0	0	0	0
MSM	0	0	0	0	0	0	0	0	0	0	0	0
Sex workers	0	0	0	0	0	0	0	0	0	0	0	0
Clients of sex workers	0	0	0	0	0	0	0	0	0	0	0	0
Optional HR1	0	0	0	0	0	0	0	0	0	0	0	0
Optional HR2	0	0	0	0	0	0	0	0	0	0	0	0
Optional HR3	0	0	0	0	0	0	0	0	0	0	0	0
Optional HR4	0	0	0	0	0	0	0	0	0	0	0	0
Sub-total PHR	0	0							0		0	
2. Populations at lower risk (PLR) that are not already included in PHR												
Method A: Partners of high risk populations	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female statistics		
	Low estimate	High estimate	Low	High	(Low Population × Low Prevalence)	(Low Population × High Prevalence)	(High Population × Low Prevalence)	(High Population × High Prevalence)		Percent (%) female in risk group	Number of women Infected	Percent (%) of infected who are women
Partners of IDU	0	0	0	0	0	0	0	0	0	0	0	0
Female partners of MSM	0	0	0	0	0	0	0	0	0	0	0	0
Partners of Clients of Sex workers	0	0	0	0	0	0	0	0	0	0	0	0

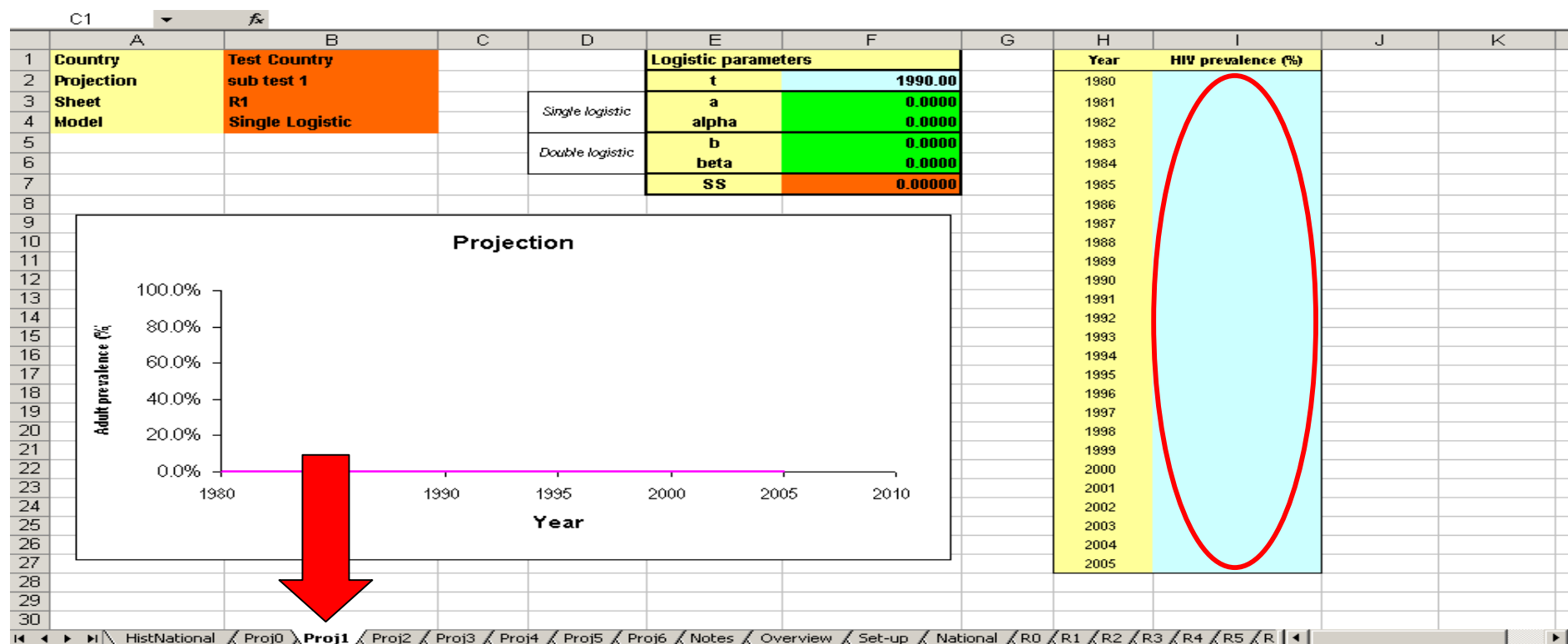
Рабочий лист «Распространенность в группах более низкого риска» - Метод А

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Test Country	sub test 1											
2	Region adult (15-49) population:	3,000,000											
3	% Urban population:	65%											
4	Urban adult population:	1,950,000											
5	Year	2004											
6													
19													
20	2. Populations at lower risk (PLR) that are not already included in PHR												
21	Method A: Partners of high risk populations	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female statistics		
22		Low estimate	High estimate	Low	High	(Low Population x Low Prevalence)	(Low Population x High Prevalence)	(High Population x Low Prevalence)	(High Population x High Prevalence)		Percent (%) Female in risk group	Number of women Infected	Percent (%) of infecte who ar wome
23	Partners of IDU	500	800	2.00%	3.00%	10	15	16	24	16	65.0%	11	
24	Female partners of MSM	500	600	0.10%	0.50%	1	3	0	0	1	100.0%	1	
25	Partners of Clients of Sex workers	2,000	2,500	0.10%	0.15%	2	3	3	4	3	100.0%	3	
26	Optional LR1					0	0	0	0	0		0	
27	Optional LR2					0	0	0	0	0		0	
28	Optional LR3					0	0	0	0	0		0	
29	Sub-total	3,000	3,360							20		14	71.4%
30	Method B: ANC data applied to low risk women	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female statistics		
31		Low	High	Low	High	(Low Population x Low Prevalence)	(Low Population x High Prevalence)	(High Population x Low Prevalence)	(High Population x High Prevalence)		Percent (%) Female in risk group	Number of women Infected	Percent (%) of infecte who ar wome
32	Urban Female low risk pop	967,590	971,393			0	0		0	0			
33	Rural Female low risk pop	521,010	523,058			0	0		0	0			
34	Sub-total	1,488,600	1,494,450							0		0	
35	No Risk Population	2,951,640	2,964,600										
36	Sub-total PLR	3,000	3,360							20		14	71.4%
37													

Рабочий лист «Распространенность в группах более низкого риска» - Метод В

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Test Country	sub test 1											
2	Region adult (15-49) population:	3,000,000											
3	% Urban population:	65%		Method used to calculate number of low risk infections									
4	Urban adult population:	1,950,000		Select only one:	<input checked="" type="checkbox"/>	Method A: Partners of high risk							
5	Year	2004				Method B: ANC data applied to low risk women							
28	Optional LR3					0	0	0	0	0	0	0	0
29	Sub-total	3,000	3,360							20		11	57.3%
30	Method B: ANC data applied to low risk women	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female statistics		
31		<i>Low</i>	<i>High</i>	<i>Low</i>	<i>High</i>	(Low Population x Low Prevalence)	(Low Population x High Prevalence)	(High Population x Low Prevalence)	(High Population x High Prevalence)		Percent (%) Female in risk group	Number of women Infected	Percent (%) of infective who are women
32	Urban female low risk pop	967,590	971,393	2.00%	3.00%	19,352	29,028	19,428	29,142	24,237			
33	Rural female low risk pop	521,010	523,058	1.00%	2.00%	5,210	10,420	5,231	10,461	7,831			
34	Sub-total	1,488,600	1,494,450							32,068		32,068	100.0%
35	No Risk Population	1,460,550	1,479,000										
36	Sub-total PLR	1,488,600	1,494,450							32,068		32,068	
37													
38	3. Total number of adults living with HIV												
39													
40													
41	REGIONAL TOTAL									36,005		33,513	93.1%
42													
43	Number of Adults (15-49) LWHA:	36,005		Notes/Comments:									
44	Proportion that are IDU (%):	5.0%											
45	Adult (15-49) prevalence (%):	1.20%											
46	Percent female (%):	93.1%											

Рабочий лист «Эпидемиологическая кривая»



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- **Сильные стороны Рабочего журнала**
- Ограниченные возможности Рабочего журнала
- Результаты

Сильные стороны Рабочего журнала

- **Относительная легкость использования**
 - Лист «Настройка»
 - Территориальные листы
 - Проверка соответствия
 - Оценки распространенности
 - Численность населения в группах
 - Распространенность ВИЧ
 - Программа-решатель в Excel
 - Простая или двойная логистическая кривая
- **Альтернативные методы оценки для групп более низкого риска**
 - Численность групп
 - Альтернативные данные по ДЖК

Проверка соответствия

	A	B	C	D	E	F	G	H	I	J	K
1	National country estimate for:	Alcatel									
2	National adult (15-49) population:	5,000,000									
3	% Urban population:	35.6%									
4	Urban adult population:	1,780,000									
5	Year	2004									
6											
46	Proportion that are IDU (%):	18.6%									
47	Adult (15-49) prevalence (%):	0.87%									
48	Number of women (15-49) LWHA:	20,928									
49	Percent female (%):	48.0%									
50											
51	Consistency check										
52											
53	Higher risk population size estimates	% behaviour	Check	Comment							
54	IDU among adult population	1.0%	Unusually HIGH	While the extent of injecting drug use varies dramatically among countries few countries will have more than 0.7% of							
55	MSM among men	3.1%	ok!	Research has found that in most countries between 2% and 5% of men aged 15-49 have sex with other men.							
56	Sex workers among women	1.5%	Unusually HIGH	Few countries have good estimates of the number of sex workers. In Thailand the estimated number of sex workers							
57	Clients of sex workers among men	8.9%	ok!	Few countries have good estimates of the number of clients of sex workers. In Thailand the estimated number of cli							
58											
59	Higher risk HIV prevalence estimates	% HIV	Check	Comment							
60	IDU	15.8%	ok!	Above 70% is unusually high.							
61	MSM	12.4%	ok!	Above 40% is unusually high.							
62	Sex workers	16.6%	ok!	Above 60% is unusually high.							
63	Clients of sex workers	3.5%	ok!	Above 30% is unusually high.							
64											
65	Model	Value	Check	Com							
66	Female:Male ratio	92.4%									
67	PLR to PHR ratio	0.39	Unusually HIGH ratio!	Using approach to estimating prevalence, the majority of people living with HIV/AIDS should be							
68	National percent urban (%)	35.6%	High - Check Set-up sheet.	Natio cent urban higher than given in 'Set-up' sheet.							
69											
70											
71											

Альтернативные методы на рабочем листе «Распространенность»

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Test Country	sub test 1											
2	Region adult (15-49) population:	3,000,000											
3	% Urban population:	65%											
4	Urban adult population:	1,950,000											
5	Year	2004											
6													
19													
20	2. Populations at lower risk (PLR) that are not already included in PHR												
21	Method A: Partners of high risk populations	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female statistics		
22		Low estimate	High estimate	Low	High	(Low Population × Low Prevalence)	(Low Population × High Prevalence)	(High Population × Low Prevalence)	(High Population × High Prevalence)		Percent (%) female in risk group	Number of women Infected	Percent (%) of infective who are women
23	Partners of IDU	500	800	2.00%	3.00%	10	15	16	24	16	65.0%	11	
24	Female partners of MSM	500	60	0.10%	0.50%	1	3	0	0	1	100.0%	1	
25	Partners of Clients of Sex workers	2,000	2,500	0.10%	0.15%	2	3	3	4	3	100.0%	3	
26	Optional LR1					0	0	0	0	0		0	
27	Optional LR2					0	0	0	0	0		0	
28	Optional LR3					0	0	0	0	0		0	
29	Sub-total	3,000	3,360							20		14	71.4%
30	Method B: ANC data applied to low risk women	Population Size Estimate		HIV prevalence Estimate (%)		Estimates of adults living with HIV/AIDS				Average number of adults living with HIV	Female statistics		
31		Low	High	Low	High	(Low Population × Low Prevalence)	(Low Population × High Prevalence)	(High Population × Low Prevalence)	(High Population × High Prevalence)		Percent (%) female in risk group	Number of women Infected	Percent (%) of infective who are women
32	Urban female low risk pop	967,590	971,393			0	0		0	0			
33	Rural female low risk pop	521,010	523,058			0	0		0	0			
34	Sub-total	1,488,600	1,494,450							0		0	
35	No Risk Population	2,951,640	2,964,600										
36	Sub-total PLR	3,000	3,360							20		14	71.4%
37													

Обзор учебного занятия

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- Компоненты Рабочего журнала
- Необходимые составляющие
- Сильные стороны Рабочего журнала
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- Результаты

Ограниченные возможности Рабочего журнала

- **Определение размеров групп**
- **Нехватка данных**
 - О размерах групп
 - О распространенности ВИЧ в группах
- **Для подбора эпидемических кривых необходимы данные за длительный период времени**
 - Как минимум 3 года для простой логистической кривой
 - Для оценки растущей или стабилизирующейся распространенности
 - Более чем за 5 лет для двойной логистической кривой
 - Для оценки снижающейся распространенности

Обзор учебного занятия

- Цель применения Рабочего журнала
- Компоненты Рабочего журнала
- Необходимые составляющие
- Сильные стороны Рабочего журнала
- Ограниченные возможности Рабочего журнала
- **Результаты**

Результаты

- **Значение точечной распространенности за один год**
- **Эпидемиологическая кривая: Оценка распространенности во времени**
- **Результаты для программы Spectrum**

Обобщенные национальные результаты

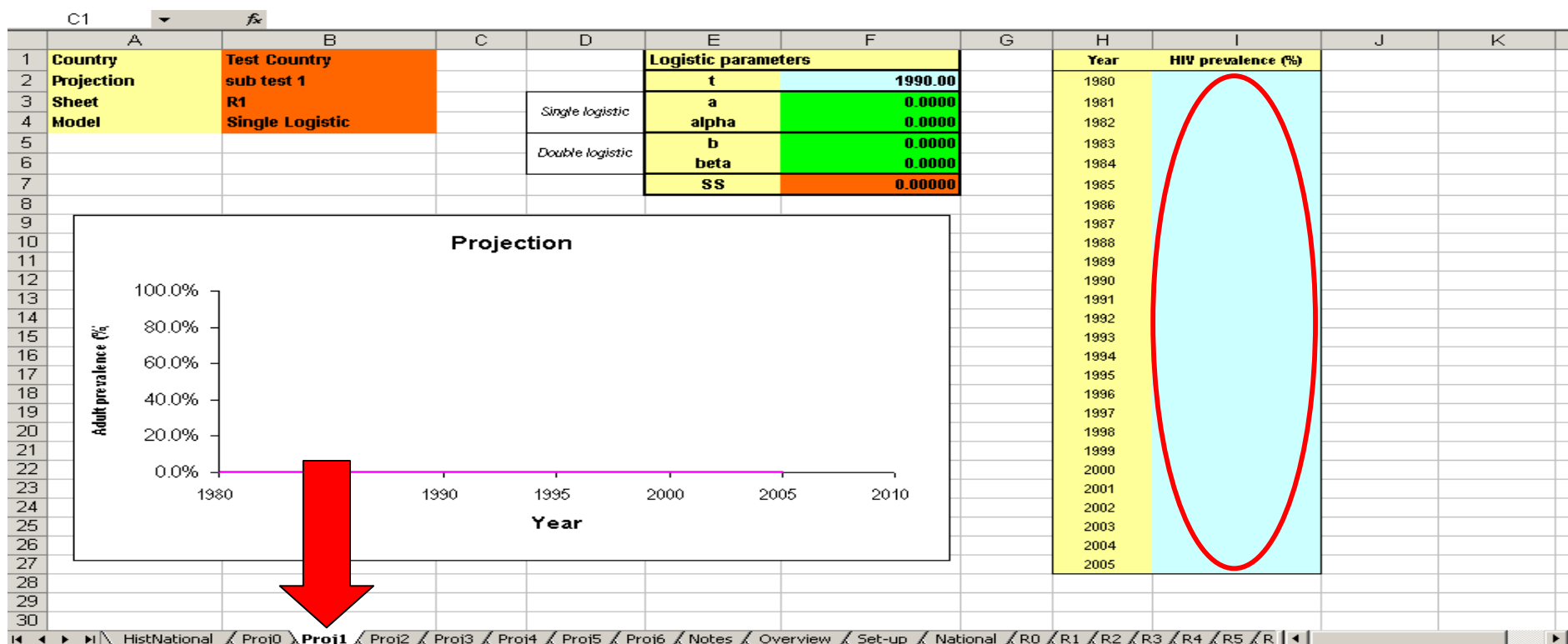
	A	B	C	D	E	F	G	H	I	J	K
1	National country estimate for:	Alcatel									
2	National adult (15-49) population:	5,000,000									
3	% Urban population:	35.6%									
4	Urban adult population:	1,780,000									
5	Year	2004									
46	Proportion that are IDU (%):	18.6%									
47	Adult (15-49) prevalence (%):	0.87%									
48	Number of women (15-49) LWHA:	20,928									
49	Percent female (%):	48.0%									
51	Consistency check										
53	Higher risk population size estimates	% behaviour	Check	Comment							
54	IDU among adult population	1.0%	Unusually HIGH	While the extent of injecting drug use varies dramatically among countries few countries will have more than 0.7% of							
55	MSM among men	3.1%	ok!	Research has found that in most countries between 2% and 5% of men aged 15-49 have sex with other men.							
56	Sex workers among women	1.5%	Unusually HIGH	Few countries have good estimates of the number of sex workers. In Thailand the estimated number of sex workers							
57	Clients of sex workers among men	8.9%	ok!	Few countries have good estimates of the number of clients of sex workers. In Thailand the estimated number of cli							
59	Higher risk HIV prevalence estimates	% HIV	Check	Comment							
60	IDU	15.8%	ok!	Above 70% is unusually high.							
61	MSM	12.4%	ok!	Above 40% is unusually high.							
62	Sex workers	16.6%	ok!	Above 60% is unusually high.							
63	Clients of sex workers	3.5%	ok!	Above 30% is unusually high.							
65	Model	Value	Check	Comment							
66	Female:Male ratio	92.4%									
67	PLR to PHR ratio	0.39	Unusually HIGH ratio!	Using the approach to estimating prevalence, the majority of people living with HIV/AIDS should be							
68	National percent urban (%)	35.6%	High - Check Set-up sheet.	National percent urban higher than given in 'Set-up' sheet.							

Оценка качества

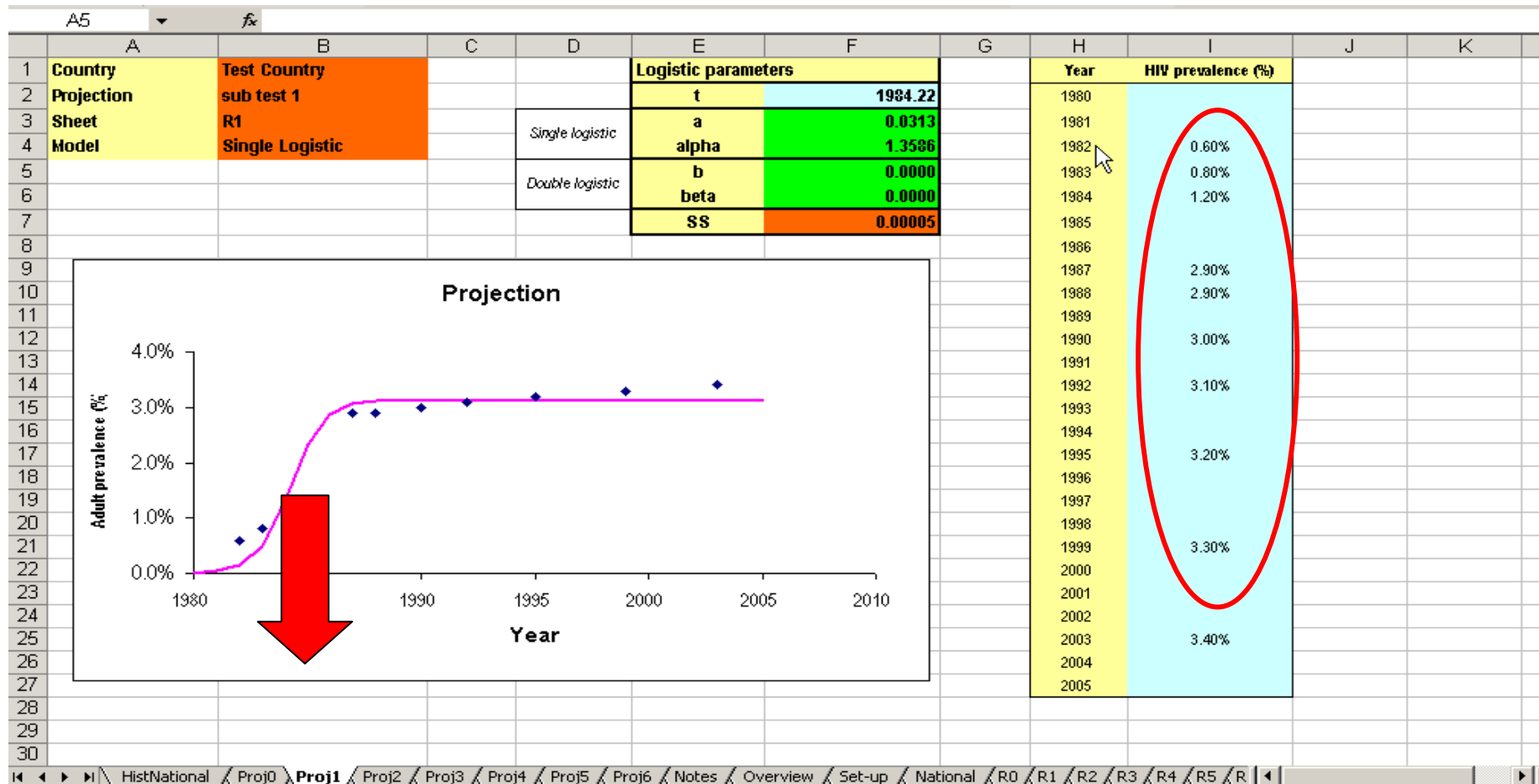
	A	B	C	D	E	F	G	H	I	J	K
1	National country estimate for:										
2	National adult (15-49) population:										
3	% Urban population:										
4	Urban adult population:										
5	Year										
6											
40										number of adults living with HIV	Percent (%) female in risk group
41	NATIONAL TOTAL									0	
42											
43	MODEL OUTPUTS:										
44	Country:										
45	Year:										
46	Number of adults (15-49) LWHA:										
47	Proportion of LWHA that are IDU (%):										
48	Adult (15-49) prevalence (%):										
49	Number of women (15-49) LWHA:										
50	Percent of LWHA who are female (%):										
51											
52	CONSISTANCY CHECK:										
53	Higher risk population size estimates	% behaviour	Check	Comment							
54	IDU among adult population	0	Missing IDU data	While the extent of injecting drug use varies dramatically among countries few countries will have more than 0.7% of the							
55	MSM among men	0	Missing MSM data	Research has found that in most countries between 2% and 5% of men aged 15-49 have sex with other men.							
56	Female sex workers among women	0	Missing Sex Workers	Few countries have good estimates of the number of sex workers. In Thailand the estimated number of sex workers is rou							
57	Clients of sex workers among men	0	Missing client data	Few countries have good estimates of the number of clients of sex workers. In Thailand the estimated number of clients is							
58											
59	Higher risk HIV prevalence estimates	% HIV	Check	Comment							
60	IDU	0	Missing IDU prevalence	Above 70% is unusually high.							
61	MSM	0	Missing MSM prevalence	Above 40% is unusually high.							
62	Female sex workers	0	Missing sex workers	Above 60% is unusually high.							

Ranges around national adult (15-49) HIV prevalence (%)					
Good quality		Medium quality		Poor quality	
Low	High	Low	High	Low	High
Please select quality on the set-up page!					

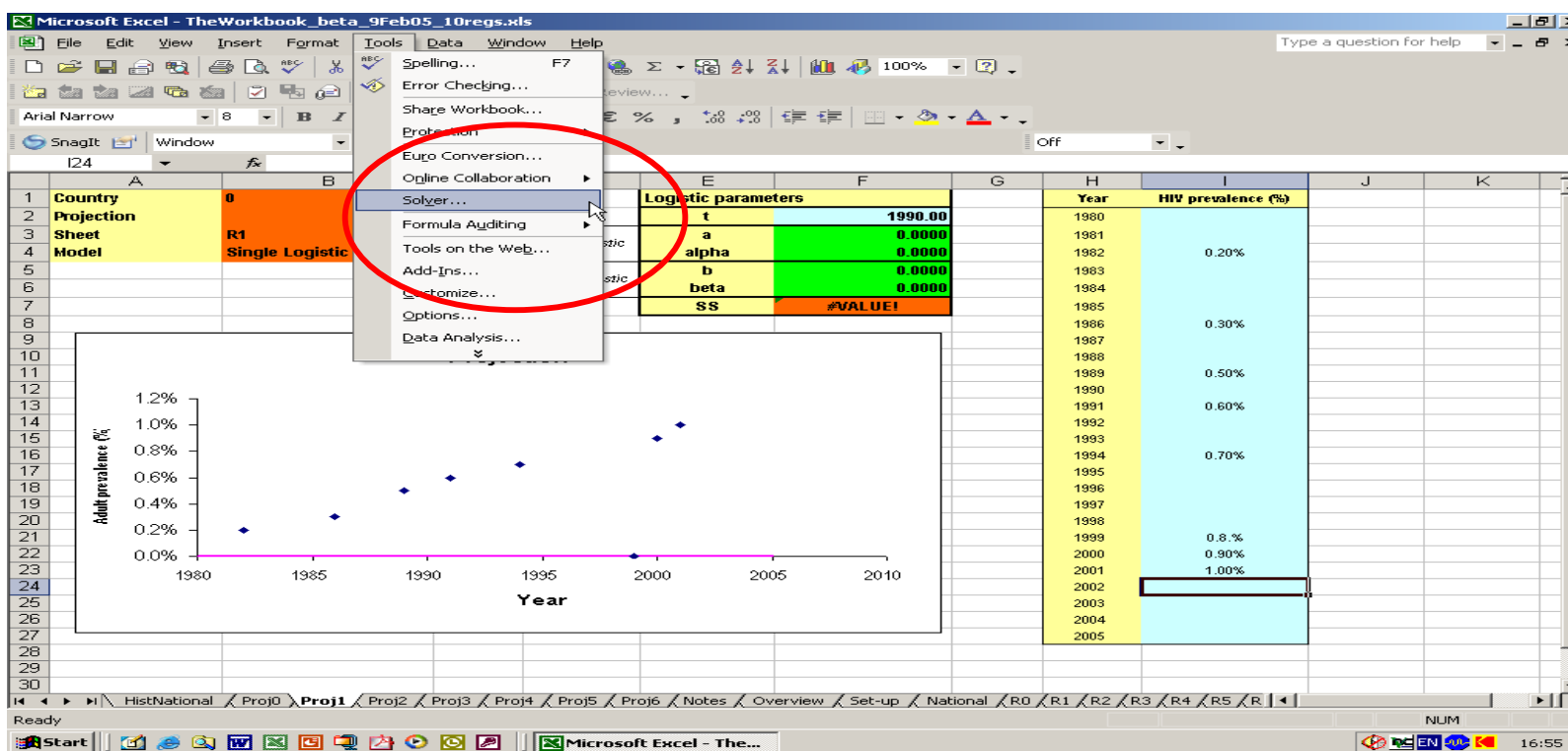
Рабочий лист «Эпидемиологическая кривая»



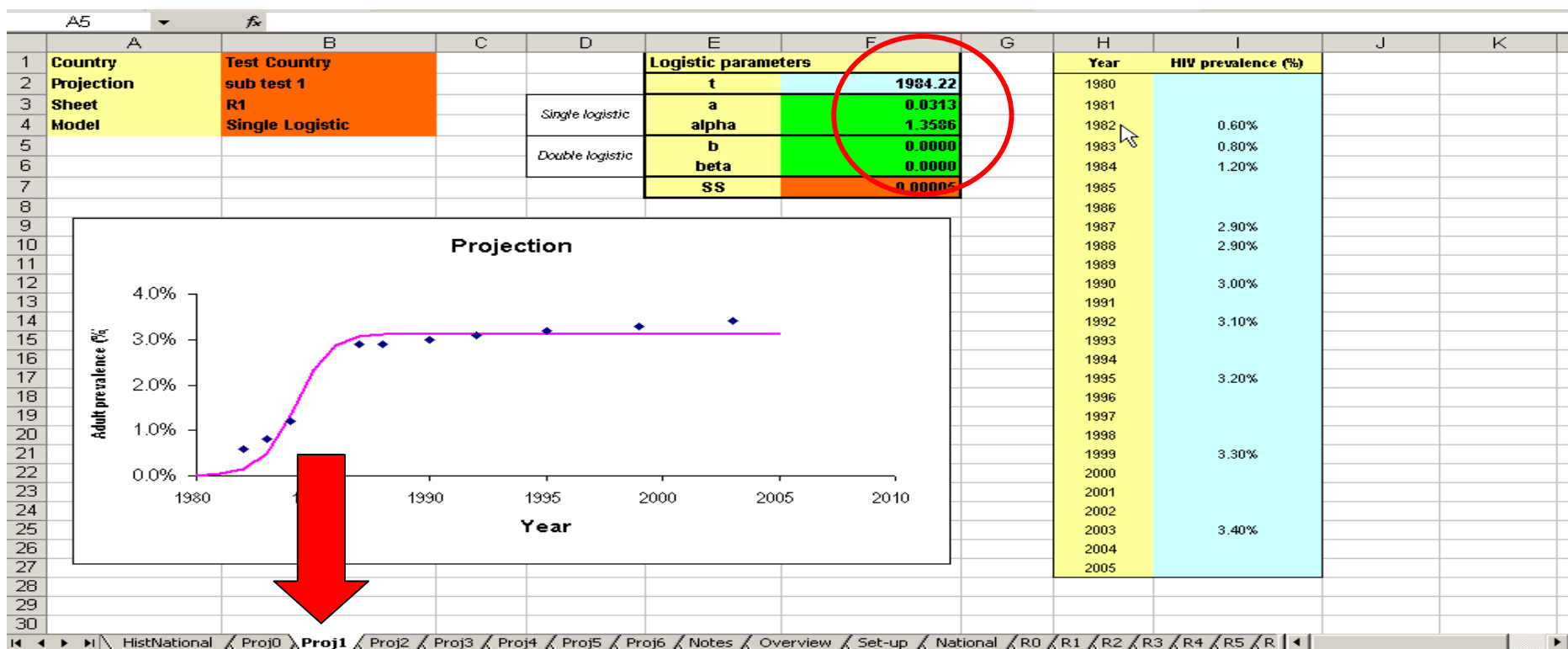
Рабочий лист «Эпидемиологическая кривая»



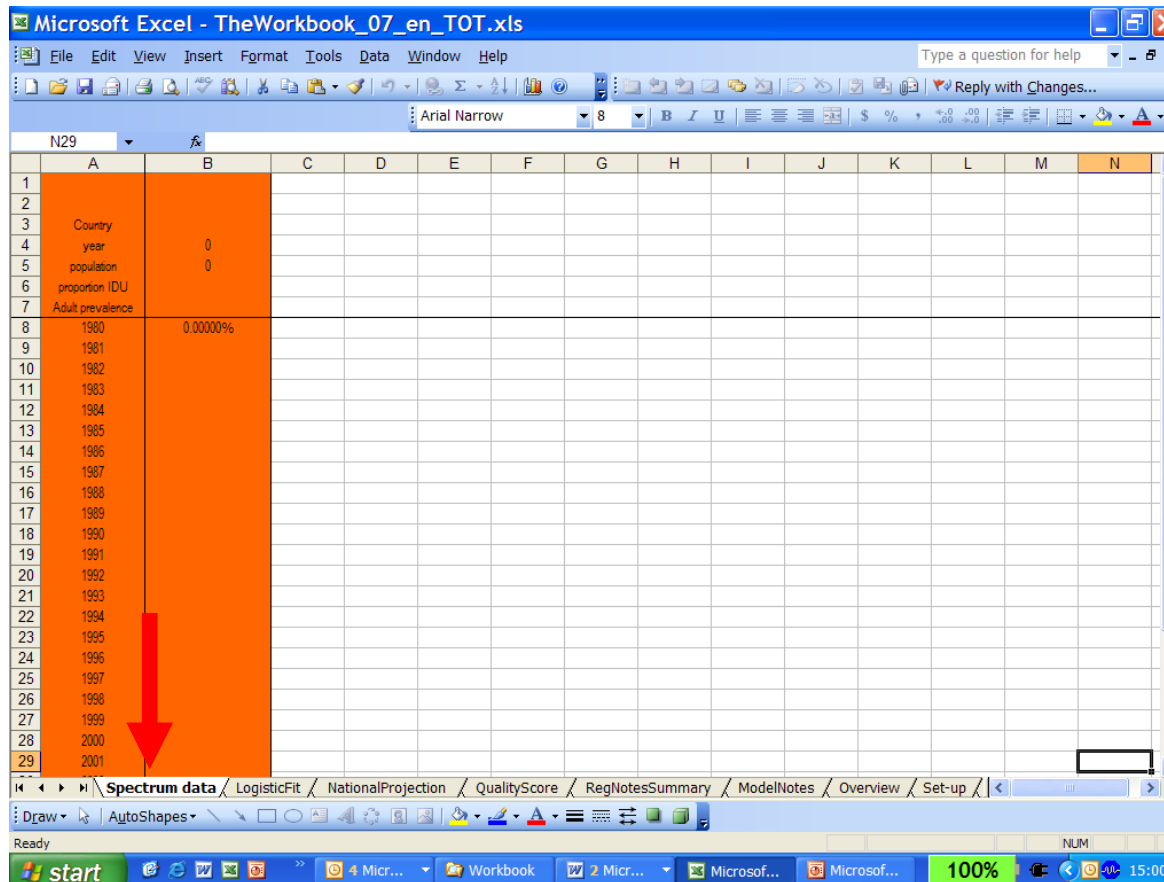
Рабочий лист «Эпидемиологическая кривая»



Рабочий лист «Эпидемиологическая кривая»



Результаты для программы Spectrum



	A	B
1		
2		
3	Country	
4	year	0
5	population	0
6	proportion IDU	
7	Adult prevalence	
8	1980	0.00000%
9	1981	
10	1982	
11	1983	
12	1984	
13	1985	
14	1986	
15	1987	
16	1988	
17	1989	
18	1990	
19	1991	
20	1992	
21	1993	
22	1994	
23	1995	
24	1996	
25	1997	
26	1998	
27	1999	
28	2000	
29	2001	