

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Supporting Information S2: IIR-W calculations based on time as a linear entity															
2																
3																
4	Calculations relating to Table 2 of the paper															
5																
6																
7		Linear regression curve parameters (y = ax + b)		Full window (days)			50% window (days)			0% window (days)			Regression curve specifications			
8	Algorithm	b	a	x for y=0%	Lower Limit 95%CI	Upper Limit 95%CI	x for y=50%	Lower Limit 95%CI	Upper Limit 95%CI	x for y=100%	Lower Limit 95%CI	Upper Limit 95%CI	Datapoints selected	N datapoints	R^2	
9	BED			153.0												
10	1	2	107.071	-1.032	103.8	92.0	121.7	55.3	49.5	62.5	6.9	0.0	15.0	3-6	4	0.933
11	2	3	107.456	-2.348	45.8	33.0	114.0	24.5	0.0	39.5	3.2	0.0	17.5	1-4	4	0.938
12	3	3.1	108.831	-2.257	48.2	36.0	94.0	26.1	10.0	38.0	3.9	0.0	16.0	1-4	4	0.953
13	4	3.2	94.406	-0.990	95.4	67.0	85.0	44.9	37.0	44.5	5.7	1.0	11.0	2-6	5	0.963
14	5	4	119.663	-0.989	121.0	99.0	177.5	70.4	62.0	86.0	19.9	0.0	34.5	3-6	4	0.977
15	6	4.1	123.961	-0.953	130.1	94.0	570.0	77.6	62.0	204.0	25.1	0.0	44.5	3-6	4	0.926
16	7	5	109.067	-2.193	49.7	38.0	86.0	26.9	14.0	37.0	4.1	0.0	16.5	1-4	4	0.961
17	8	6	104.317	-1.405	74.2	63.0	96.0	38.7	32.0	46.0	3.1	0.0	14.0	1-5	5	0.963
18	9	7	113.098	-1.074	105.3	92.0	133.0	58.8	52.0	65.5	12.2	0.0	26.0	3-6	4	0.987
19	10	8	109.320	-0.991	110.3	90.0	176.0	59.9	48.0	73.0	9.4	0.0	28.5	3-6	4	0.968
20	11	8.1	109.320	-0.991	110.3	90.0	176.0	59.9	48.0	73.0	9.4	0.0	28.5	3-6	4	0.968
21	12	9	108.484	-1.047	103.6	80.0	250.0	55.9	32.0	74.0	8.1	0.0	32.5	3-6	4	0.941
22	13	11	120.440	-0.945	127.4	109.0	162.0	74.5	67.0	74.0	21.6	5.5	32.5	3-6	4	0.989
23	14	11.1	120.440	-0.945	127.4	109.0	162.0	74.5	67.0	74.0	21.6	5.5	32.5	3-6	4	0.989
24	15	11.2	120.440	-0.945	127.4	109.0	162.0	74.5	67.0	74.0	21.6	5.5	32.5	3-6	4	0.989
25	16	12	120.500	-0.932	129.3	106.0	185.0	75.6	66.0	93.0	22.0	0.0	35.0	3-6	4	0.980
26	17	12.1	120.500	-0.932	129.3	106.0	186.0	75.6	66.0	93.0	22.0	0.0	35.0	3-6	4	0.980
27	18	13	119.663	-0.989	121.0	99.5	178.0	70.4	62.5	86.0	19.9	0.0	34.5	3-6	4	0.977
28	19	13.1	124.596	-1.011	123.2	92.0	380.0	73.8	60.0	140.0	24.3	0.0	43.0	3-6	4	0.936
29	20	14	111.680	-1.441	77.5	69.0	91.0	42.8	37.0	47.0	8.1	0.0	16.0	2-5	4	0.992
30	21	15	125.690	-1.031	121.9	103.0	160.0	73.4	66.0	85.0	24.9	5.0	35.0	3-6	4	0.986
31	22	15.1	125.629	-1.044	120.3	112.5	133.0	72.4	69.0	75.0	24.5	18.0	30.0	3-6	4	0.997
32	23	16	95.383	-0.870	109.6	88.0	184.0	52.2	35.0	63.0	5.3	0.0	19.5	3-6	4	0.965
33	24	17	103.129	-1.039	99.3	82.0	140.0	51.1	40.0	62.5	3.0	0.0	20.0	2-6	5	0.943
34	25	18	93.987	-0.958	98.1	77.0	163.0	45.9	28.0	59.0	6.3	0.0	17.0	2-6	5	0.912
35		mean	112.7	-1.2	104.4			58.2			13.4					0.965
36		SD	9.7	0.4	26.2			17.0			8.5					0.024
37		%CV	8.6	-36.8	25.1			29.3			63.6					2.4
38		lower limit 95%CI	108.9	-1.3	94.1			51.5			10.1					0.955
39		upper limit 95%CI	116.5	-1.0	114.6			64.9			16.8					0.974

	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
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IIR-W calculations relating to Fig. 3 of the paper. IIR-W figures in red indicate a significant difference com

Calculations relating to Table 3 of the paper

Cohort A; Baseline; June 2005 — May 2006; N = 748

Cohort B; 2008; N = 667

	ALG #	Specificity (%)	Nonadjusted IIR-W Calculation					IIR-W adjusted for specificity			N ruled older	N ruled incident	N estimated incident	Adjusted IIR-W	IIR-W, in % of baseline	
			N ruled older	N ruled incident	N estimated incident	Lower Limit 95%CI	Upper Limit 95%CI	Raw IIR-W	Adjusted IIR-W	Lower Limit 95%CI						Upper Limit 95%CI
8	BED	80.1	486	262	625			0.836	0.669							
10	2	95.4	643	105	369	315	417	0.494	0.471	0.402	0.531	549	118	396	0.594	126.0
11	3	100.0	709	39	311	125	431	0.416	0.416	0.167	0.577	630	37	295	0.442	106.4
12	3.1	100.0	704	44	333	171	446	0.445	0.445	0.228	0.596	622	45	341	0.511	114.7
13	3.2	98.1	664	84	322	361	458	0.430	0.422	0.473	0.600	578	89	334	0.501	118.8
14	4	92.7	618	130	392	267	479	0.524	0.486	0.331	0.594	535	132	369	0.553	113.9
15	4.1	91.9	597	151	424	97	586	0.566	0.521	0.119	0.720	522	145	374	0.561	107.7
16	5	95.5	703	45	330	191	432	0.442	0.422	0.244	0.552	611	56	393	0.589	139.6
17	6	90.8	655	93	457	354	539	0.611	0.555	0.429	0.654	560	107	478	0.716	129.0
18	7	98.4	656	92	319	252	365	0.426	0.419	0.332	0.480	558	109	372	0.557	132.9
19	8	96.8	653	95	314	197	385	0.420	0.407	0.255	0.498	554	113	362	0.542	133.4
20	8.1	96.8	654	94	311	195	381	0.416	0.402	0.252	0.493	554	113	362	0.542	134.8
21	9	98.4	660	88	310	128	402	0.414	0.408	0.169	0.528	560	107	371	0.556	136.4
22	11	93.4	620	128	367	288	429	0.490	0.458	0.360	0.535	531	136	364	0.545	119.2
23	11.1	93.4	620	128	367	288	429	0.490	0.458	0.360	0.535	531	136	364	0.545	119.2
24	11.2	94.1	621	127	364	286	425	0.486	0.457	0.360	0.535	531	136	366	0.549	120.1
25	12	93.4	618	130	367	256	448	0.491	0.458	0.320	0.559	528	139	366	0.549	119.9
26	12.1	93.4	618	130	367	255	448	0.491	0.458	0.318	0.559	528	139	366	0.549	119.9
27	13	95.0	625	123	371	252	451	0.496	0.471	0.320	0.573	538	129	370	0.554	117.6
28	13.1	93.9	608	140	415	134	555	0.554	0.521	0.169	0.697	532	135	376	0.563	108.1
29	14	97.8	675	73	344	293	386	0.460	0.450	0.383	0.505	581	86	396	0.594	132.1
30	15	94.3	608	140	419	319	496	0.560	0.529	0.403	0.626	523	144	407	0.610	115.3
31	15.1	95.1	611	137	416	376	444	0.556	0.529	0.478	0.565	524	143	413	0.619	117.1
32	16	96.6	639	109	363	216	452	0.485	0.469	0.279	0.584	556	111	357	0.535	114.2
33	17	98.2	659	89	327	232	396	0.438	0.430	0.305	0.520	568	99	358	0.536	124.7
34	18	98.2	674	74	275	166	351	0.368	0.362	0.218	0.461	575	92	336	0.504	139.4
35	mean	95.7		103.5	358.1	240.6	441.3	0.479	0.457	0.307	0.563	mean	111.8	371.3	0.557	122.4
36	SD	2.5		31.9	44.3	77.4	56.8	0.059	0.047	0.097	0.063	SD	30.7	33.0	0.049	9.9
37	%CV	2.7		30.8	12.4	32.1	12.9	12.4	10.3	31.4	11.2	%CV	27.4	8.9	8.9	8.1
38	lower limit 95%CI	94.7		91.0	340.8	210.3	419.0	0.456	0.438	0.269	0.538	lower limit 95%CI	99.8	358.4	0.537	118.5
39	upper limit 95%CI	96.7		116.0	375.5	271.0	463.5	0.502	0.475	0.345	0.588	upper limit 95%CI	123.9	384.3	0.576	126.3

	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU
1												
2	pared to the baseline IIR-W shown in column AA											
3												
4												
5												
6	Cohort C, 2009; N = 578						Cohort D; 2010; N = 602					
7												
8	N ruled older	N ruled incident	N estimated incident	Adjusted IIR-W	IIR-W, in % of baseline	N ruled older	N ruled incident	N estimated incident	Adjusted IIR-W	IIR-W, in % of baseline		
9												
10	484	94	316	0.546	115.9	518	84	282	0.468	99.4		
11	550	28	223	0.386	92.9	580	22	175	0.291	70.1		
12	545	33	250	0.432	97.1	577	25	189	0.314	70.6		
13	496	82	308	0.533	126.3	540	62	233	0.387	91.7		
14	466	112	313	0.542	111.5	494	108	302	0.502	103.2		
15	450	128	330	0.571	109.7	474	128	330	0.548	105.3		
16	531	47	330	0.570	135.2	548	54	379	0.629	149.1		
17	484	94	420	0.726	130.8	498	104	464	0.771	138.9		
18	497	81	276	0.478	113.9	531	71	242	0.402	95.9		
19	487	91	291	0.504	124.0	523	79	253	0.420	103.3		
20	488	90	288	0.499	123.9	525	77	247	0.410	101.8		
21	504	74	256	0.444	108.8	535	67	232	0.386	94.6		
22	458	120	321	0.555	121.3	496	106	283	0.471	102.9		
23	458	120	321	0.555	121.3	496	106	283	0.471	102.9		
24	459	119	321	0.555	121.3	498	104	280	0.465	101.8		
25	457	121	319	0.552	120.5	493	109	287	0.477	104.2		
26	457	121	319	0.552	120.5	493	109	287	0.477	104.2		
27	474	104	298	0.516	109.4	505	97	278	0.462	98.0		
28	457	121	337	0.582	111.8	491	111	309	0.513	98.5		
29	501	77	355	0.614	136.5	538	64	295	0.490	108.9		
30	458	120	339	0.586	110.9	489	113	319	0.530	100.3		
31	461	117	338	0.584	110.5	494	108	312	0.518	98.0		
32	495	83	267	0.462	98.5	529	73	235	0.390	83.2		
33	497	81	293	0.506	117.8	537	65	235	0.390	90.7		
34	501	77	281	0.487	134.7	537	65	238	0.395	109.1		
35	mean	93.4	308.3	0.533	117.0	mean	84.4	278.8	0.463	101.1		
36	SD	28.0	39.1	0.068	11.4	SD	27.6	58.9	0.098	16.4		
37	%CV	30.0	12.7	12.7	9.7	%CV	32.7	21.1	21.1	16.2		
38	lower limit 95%CI	82.4	293.0	0.507	112.5	lower limit 95%CI	73.6	255.7	0.425	94.7		
39	upper limit 95%CI	104.4	323.7	0.560	121.5	upper limit 95%CI	95.3	301.9	0.501	107.5		