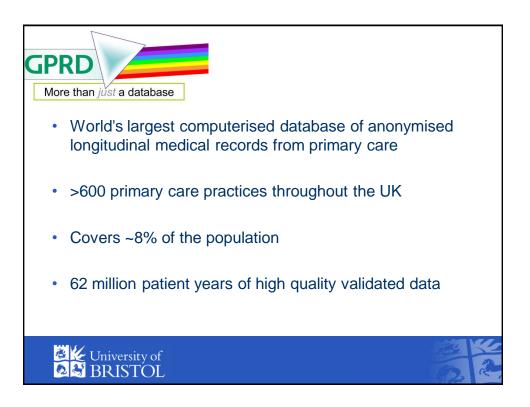


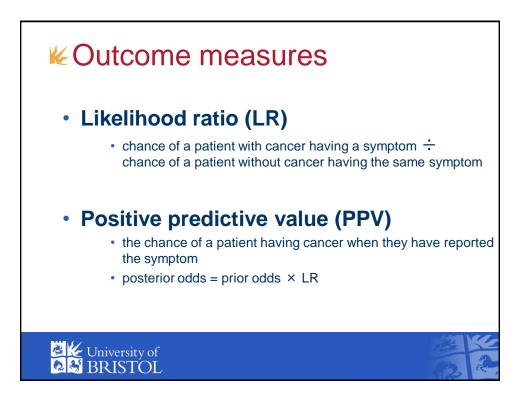


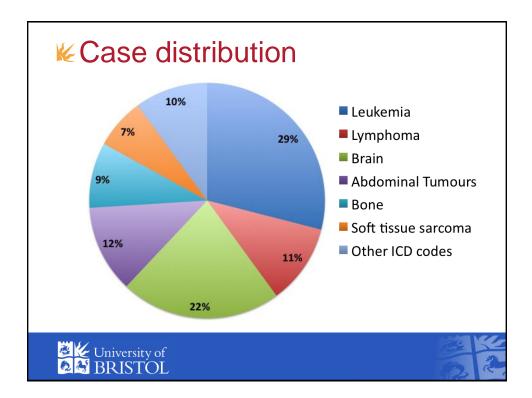
- NICE <u>alert symptoms</u> and <u>frequent consultations</u> are associated with childhood cancer in primary care
- Although the predictive value of individual symptoms and consultation frequency is low they do alter the prior probability of cancer

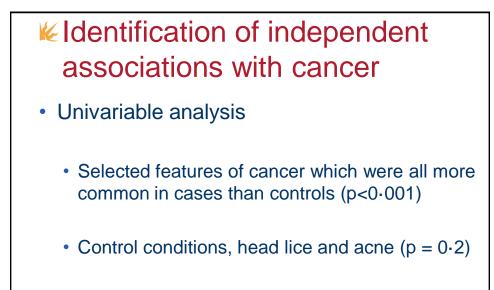
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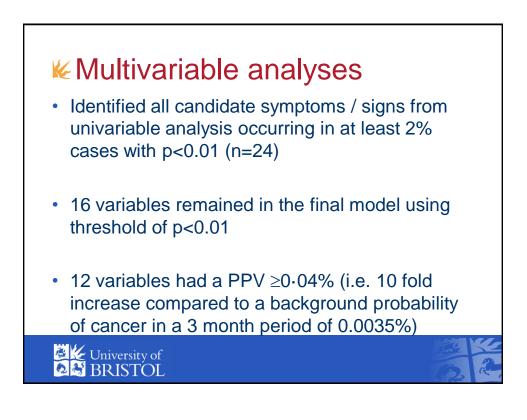








	Ca	ses	Cor	ntrol	Likelihood	
Symptom / Sign *	N=1	,267	N=1	5,318	ratio	95% CI
	Freq	%	Freq	ratio		
3 or more consultations	575	45.4	1240	8.1	5.6	5.2-6.1
Upper Respiratory Tract Infection (URTI)	143	11.3	942	6.2	1.8	1.6-2.2
Musculoskeletal symptoms	107	8.5	102	0.7	12.7	9.7-16.5
Vomiting	86	6.8	105	0.7	9.9	7.5-13.1
Cough	77	6.1	654	4.3	1.4	1.1-1.8
Headache	73	5.8	55	0.4	16.1	11.4-22.7
Lymphadenopathy	69	5.5	33	0.2	25.3	16.8-38.1
Rash	63	5.0	555	3.6	1.4	1.1-1.8
Abdominal pain	60	4.7	137	0.9	5.3	3.9-7.1
Childhood infection	54	4.3	236	1.5	2.8	2.1-3.7
Fever	49	3.9	166	1.1	3.6	2.6-4.9
Abnormal movement	49	3.9	26	0.2	22.8	14.2-36.5
Abdominal mass	48	3.8	0	0.0		
Pain	42	3.3	41	0.3	12.4	8.1-19.0
Fatigue	42	3.3	24	0.2	21.2	12.9-34.8
Lump Mass Swelling (below neck exc. abdo)	42	3.3	16	0.1	31.7	17.9-56.3
Eye swelling	39	3.1	238	1.6	2.0	1.4-2.8
Shortness of breath	35	2.8	221	1.4	1.9	1.4-2.7
Bruising	33	2.6	18	0.1	22.2	12.5-39.3
Pallor	29	2.3	3	0.0	116.9	35.7-383.1
Bleeding	28	2.2	21	0.1	16.1	9.2-28.3
Lump Mass Swelling of head and neck	28	2.2	4	0.0	84.6	29.7-240.9
Visual symptoms	28	2.2	21	0.1	16.1	9.2-28.3
Constipation	26	2.1	61	0.4	5.2	3.3-8.1



Commentana / Ciana *	Cas		Con		Odds	Positive
Symptom / Sign *	N=1,		N=15		Ratio ¹	Predictive
	Freq	%	Freq	%		Value (%)
Pallor	29	2.3	3	0.02	83.7	0.41
Lump Mass Swelling head and neck	28	2.2	4	0.03	16.9	0.30
Lump Mass Swelling ²	42	3.3	16	0.1	21.8	0.11
Lymphadenopathy	69	5.5	33	0.2	10.1	0.09
Abnormal movement	49	3.9	26	0.2	16.4	0.08
Bruising	33	2.6	18	0.1	12.3	0.08
Fatigue	42	3.3	24	0.2	7.7	0.07
Bleeding	28	2.2	21	0.1	9.9	0.06
Headache	73	5.8	55	0.4	6.1	0.06
Visual symptoms	28	2.2	21	0.1	10.4	0.06
Pain	42	3.3	41	0.3	7.3	0.04
Musculoskeletal symptoms	107	8.5	102	0.7	5.3	0.04
* Symptoms are ordered by Positive Predictive Va	lue					
¹ adjusted for all the symptoms appearing in the ta	ble					

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Symptom / Sign*	Case N=1,2		Cont N=15		Odds	Positive Predictive
oyp.co, o.g.:	Freq	%	Freq	%	Ratio ¹	Value (%)
Pallor	29	2.3	3	0.02	83.7	0.41
Lump Mass Swelling head and neck	28	2.2	4	0.03	16.9	0.30
Lump Mass Swelling ²	42	3.3	16	0.1	21.8	0.11
Lymphadenopathy	69	5.5	33	0.2	10.1	0.09
Abnormal movement	49	3.9	26	0.2	16.4	0.08
Bruising	33	2.6	18	0.1	12.3	0.08
Fatigue	42	3.3	24	0.2	7.7	0.07
Bleeding	28	2.2	21	0.1	9.9	0.06
Headache	73	5.8	55	0.4	6.1	0.06
Visual symptoms	28	2.2	21	0.1	10.4	0.06
Pain	42	3.3	41	0.3	7.3	0.04
Musculoskeletal symptoms	107	8.5	102	0.7	5.3	0.04
* Symptoms are ordered by Positive Predictive Val	ue					



Symptom / Sign*	Cases N=1,267		Control N=15,318		Odds Ratio ¹	Positive Predictive
	Pallor	29	2.3	3	0.02	83.7
Lump Mass Swelling head and neck	28	2.2	4	0.03	16.9	0.30
Lump Mass Swelling ²	42	3.3	16	0.1	21.8	0.11
Lymphadenopathy	69	5.5	33	0.2	10.1	0.09
Abnormal movement	49	3.9	26	0.2	16.4	0.08
Bruising	33	2.6	18	0.1	12.3	0.08
Fatigue	42	3.3	24	0.2	7.7	0.07
Bleeding	28	2.2	21	0.1	9.9	0.06
Headache	73	5.8	55	0.4	6.1	0.06
Visual symptoms	28	2.2	21	0.1	10.4	0.06
Pain	42	3.3	41	0.3	7.3	0.04
Musculoskeletal symptoms	107	8.5	102	0.7	5.3	0.04
* Symptoms are ordered by Positive Predictive Val	ue					
adjusted for all the symptoms appearing in the ta	ble					
Lump Mass Swelling below neck excluding abdom	nen					

Highest PPV was for pallor: for children with this sign, the prior probability of childhood cancer changes from approximately 0.35 per 10,000 (the background incidence for a 3 month period) to 41 in 10,000 (i.e. 0.41%).

	Cases N=1,267		Control N=15,318		Odds Ratio ¹	Positive Predictive	
Symptom / Sign*							
	Freq	%	Freq	%	Ratio	Value (%)	
Pallor	29	2.3	3	0.02	83.7	0.41	
Lump Mass Swelling head and neck	28	2.2	4	0.03	16.9	0.30	
Lump Mass Swelling ²	42	3.3	16	0.1	21.8	0.11	
ymphadenopathy	69	5.5	33	0.2	10.1	0.09	
Abnormal movement	49	3.9	26	0.2	16.4	0.08	
Bruising	33	2.6	18	0.1	12.3	0.08	
atigue	42	3.3	24	0.2	7.7	0.07	
Bleeding	28	2.2	21	0.1	9.9	0.06	
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/isual symptoms	28	2.2	21	0.1	10.4	0.06	
Pain	42	3.3	41	0.3	7.3	0.04	
lusculoskeletal symptoms	107	8.5	102	0.7	5.3	0.04	
0.0	ur sy 9%	or	grea	ater	, inc	assoc reasing bod of	g the

Symptom / Sign Risk Assessment Tool	PPV as a single variable	PPV combined with 3 or more consultations
Pallor	0.41	0.76
Lump Mass Swelling head and neck	0.30	0.76
Lump Mass Swelling	0.11	0.3
Lymphadenopathy	0.09	0.2
Abnormal movement	0.08	0.15
Bruising	0.08	0.38
Fatigue	0.07	0.12
Bleeding	0.06	0.11
Headache	0.06	0.13
Visual symptoms	0.06	0.23
Pain	0.04	0.14
Musculoskeletal symptoms	0.04	0.13
3 or more consultations	0.02	

