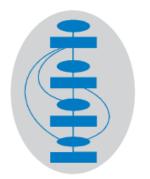
NHS

National Institute for Clinical Excellence

Guidance on Cancer Services

Improving Outcomes in Haematological Cancers

The Manual



Cancer Network Haematology Clinical Leads Workshop September 2010

Dr Steven Oliver

Prevalence, incidence and survival rates

There are no precise and reliable figures for incidence and survival rates for the different forms of haematological cancer in England and Wales. Whilst the Office for National Statistics (ONS) and the Wales Cancer Intelligence and Surveillance Unit do publish descriptive statistics (Table 1), there are many problems with these figures. For example, there is evidence that many cases are never reported to cancer registries, so the actual number of patients could be substantially higher than national figures suggest. \(^1\)

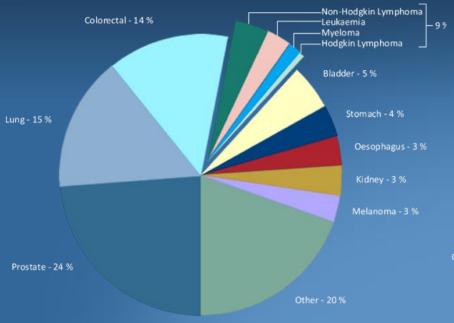


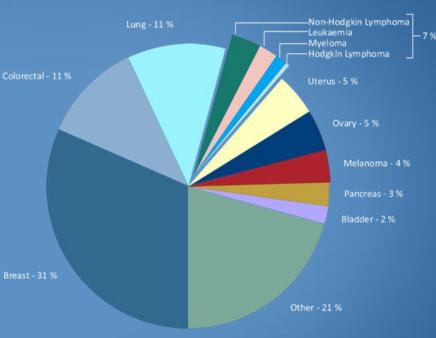
Margaret Mar

Haematological Malignancy Research Network

Background – National Data

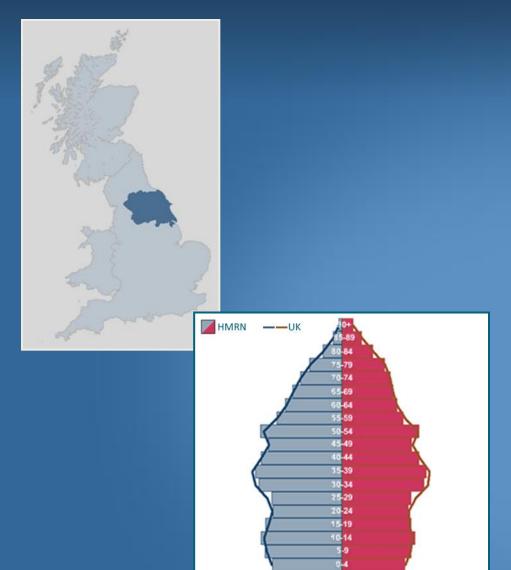






HMRN – Where

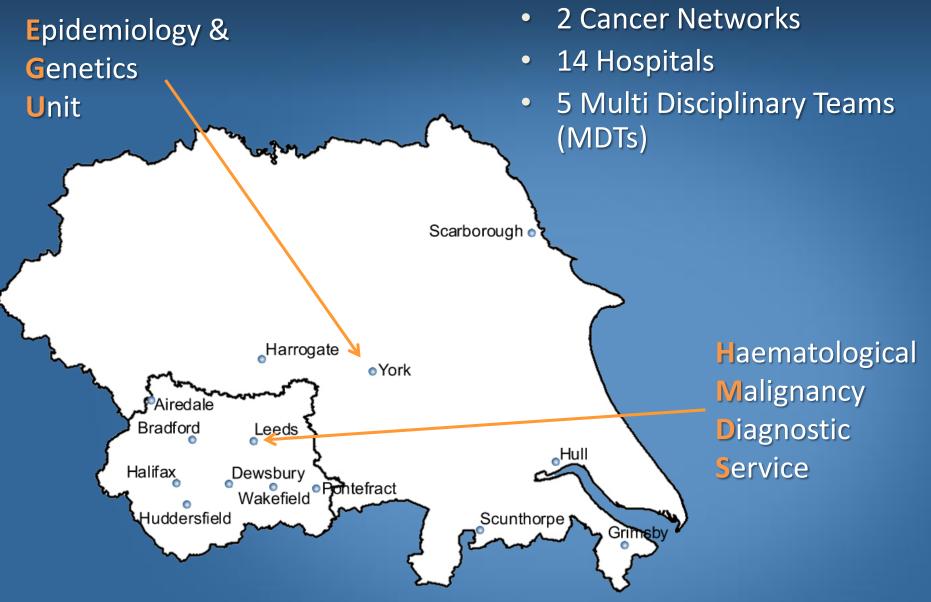




- Population 3.6 million
- Similar socio-demographic structure to the UK
 - Age
 - Sex
 - Urban/rural status
 - Affluence/deprivation
 - Ethnicity

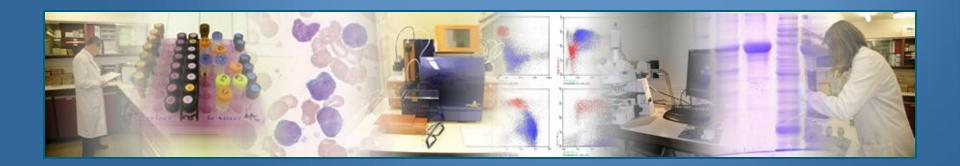
HMRN - Who





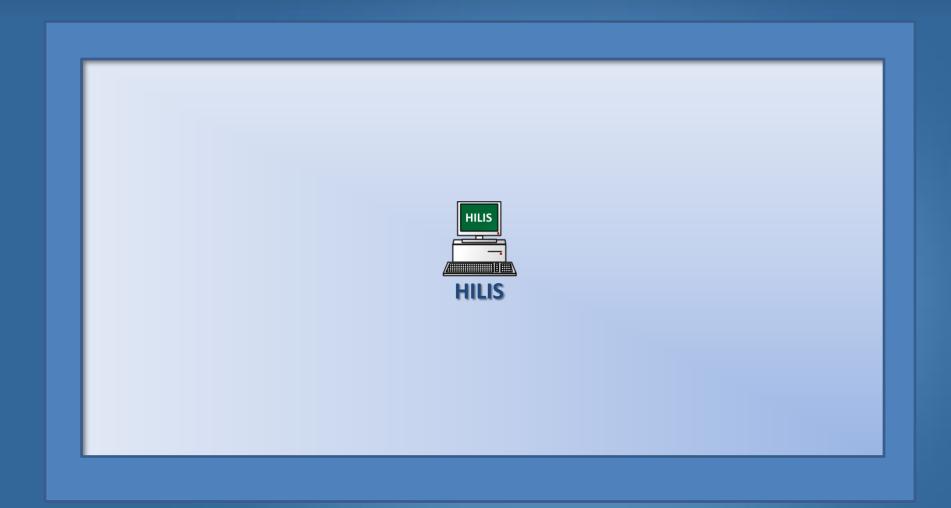
Haematological Malignancy Diagnostic Service

- Central specialist diagnostic laboratory
- Cancer Reform Strategy 2007:
 - 'model for the delivery of complex diagnostic services'
- HILIS:
 - HMDS Integrated Laboratory Information System
 - In-house web based specimen tracking system & reporting facility



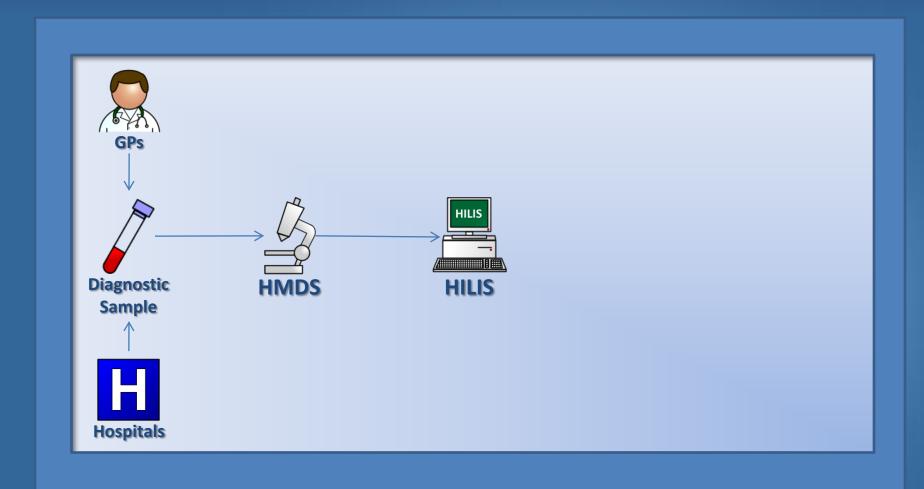
Case Notification





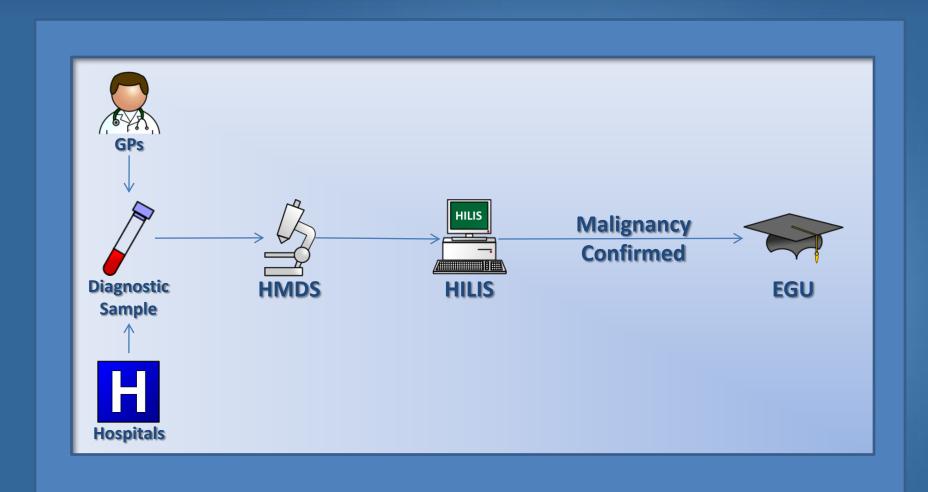
Case Notification



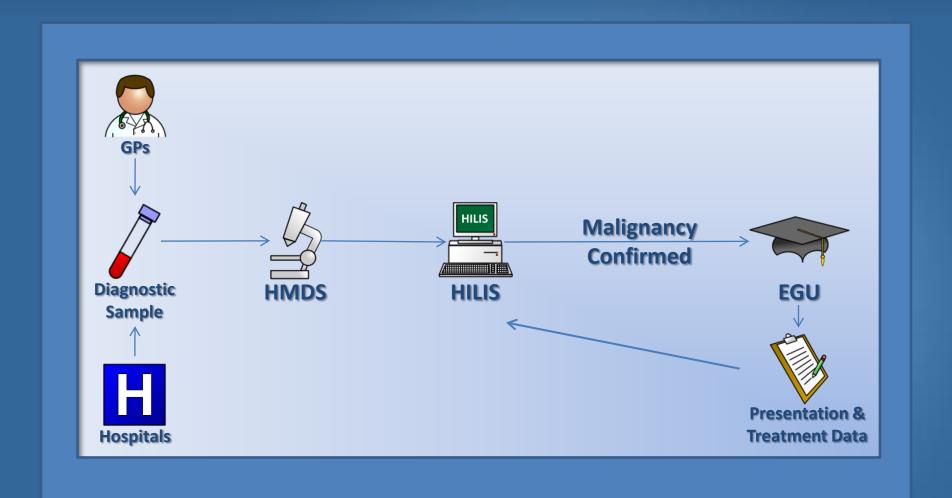


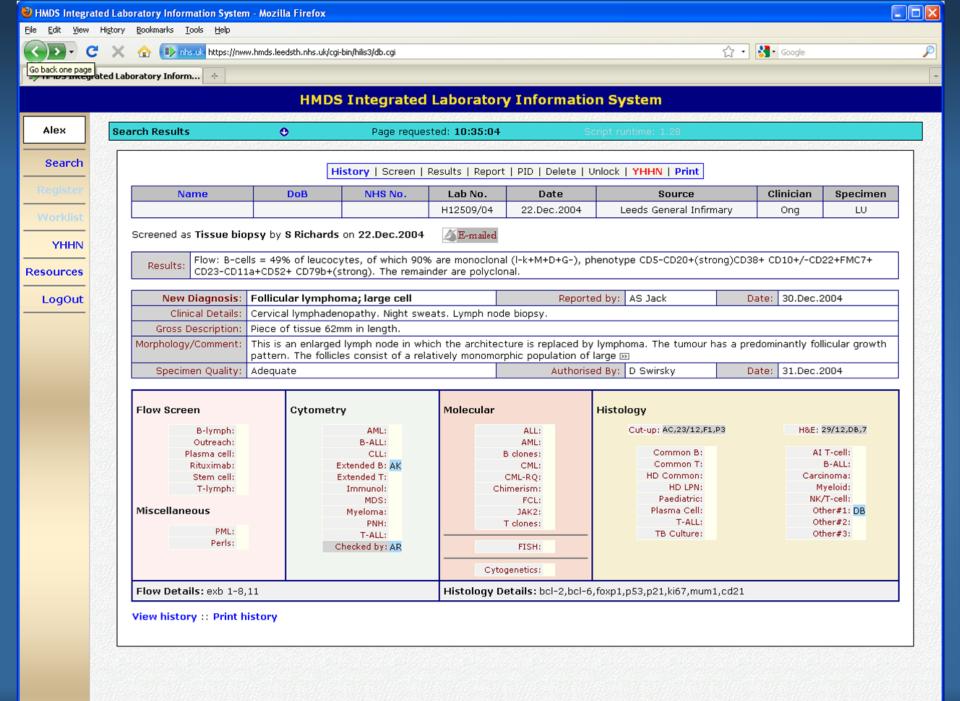
Case Notification

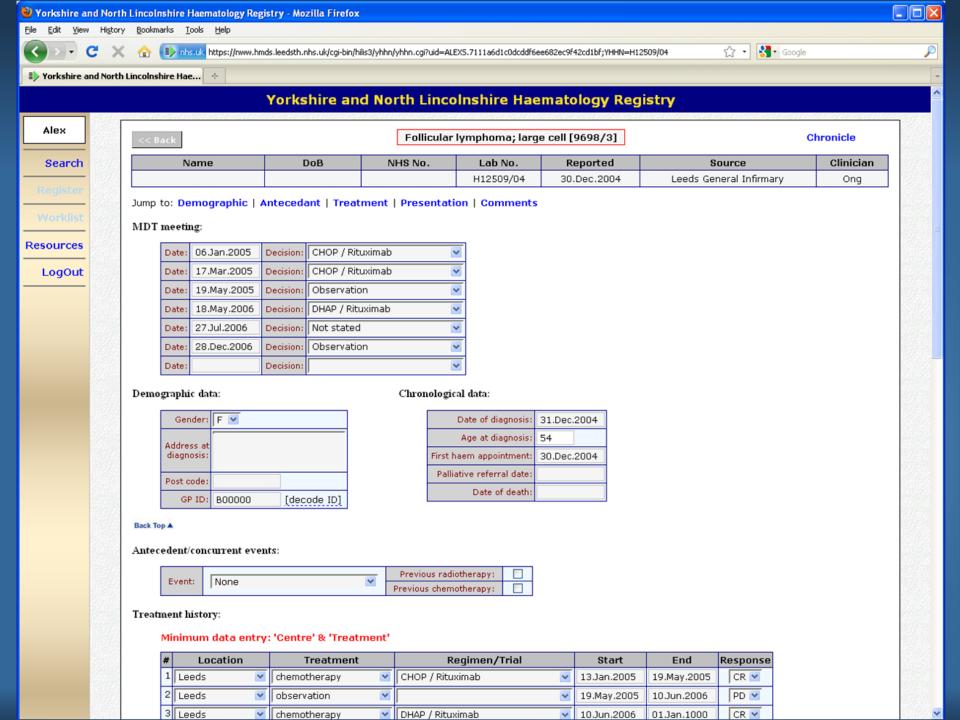






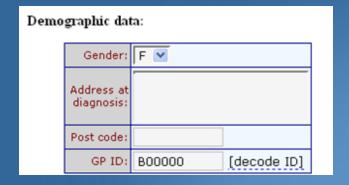




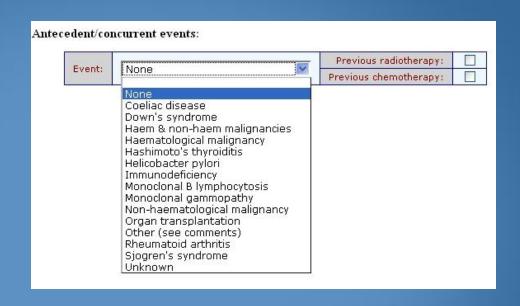




Demographics, referral pathway and antecedent events









- Prognostic data from primary sources
- Individual components of prognostic score collected
- Algorithm in HILIS calculates:
 - Stage
 - Prognostic scores

Presentation data:

EGOG:	0	нь:	13.1	[g/dL]
Bone marrow:	Y	WBC:	10.6	[x 10 ⁹ /L
Sweats:	N 🕶	Lymphocytes:	3.2	[x 10 ⁹ /L
Fever:	N 🕶	Albumin:	35.0	[g/L]
Weight loss:	N	β ₂ m	2.6	[mg/L]
CT scan:	Y	LDH:	raised	~
Ann-Arbor:	NK 💌			
Ann-Arbor:	I			
Age-adjusted IPI:	low-inte	rmediate [1]		

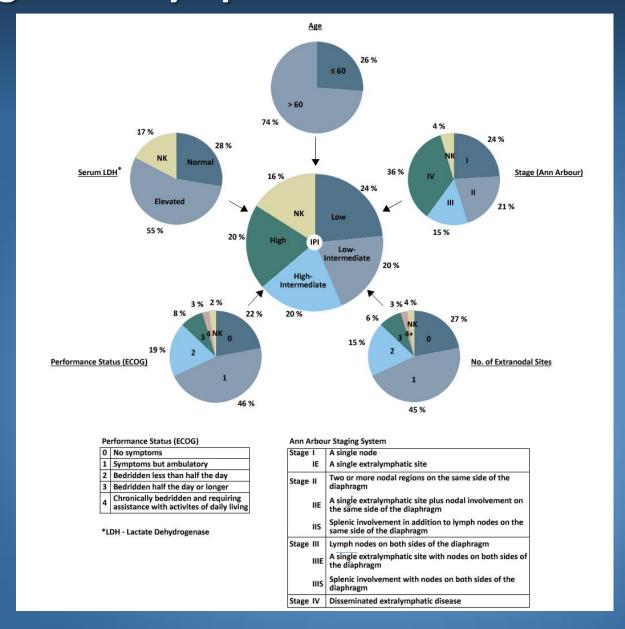
Nodal involvement:

L R	Site
	Waldeyer's ring:
<u>\</u>	Neck:
	Infraclavicular:
	Axillary/Pectoral:
	Arm:
	Thymus:
	Hilar:
	Mediastinal:
	Para-aortic:
	Spleen (palpable):
	Mesenteric:
	Iliac:
	Inguinal/Femoral:
	Popliteal:
	Bulky disease:
	Check CT scan:

Extranodal involvement:

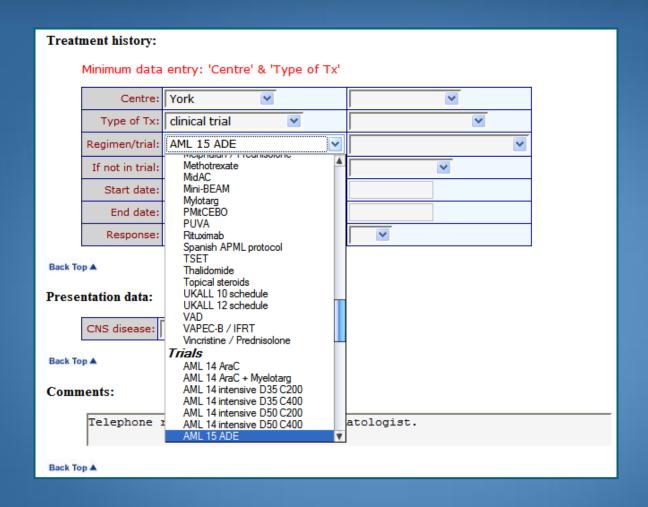
Site	L R
Blood:	
Bone:	
CNS:	
GIT:	
GU:	
Liver:	
Marrow:	
Muscle:	
Orbit:	
Pericardium:	
Pulmonary:	
Salivary gland:	
Skin:	
Thyroid:	
Other:	
Extensive:	

Diffuse large B-cell lymphoma: HMRN 2004-8





Treatment data entered using standardised terms





- Patients are followed from time of diagnosis onwards
- All treatment episodes are recorded
- Information collected on treatment response

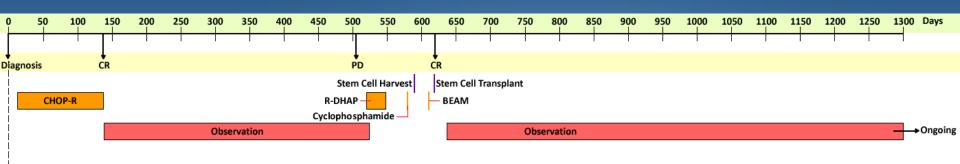
Treatment history:

Minimum data entry: 'Centre' & 'Treatment'

#	Location Treatment		Regimen/Trial	Start	End	Response
1	Leeds	chemotherapy 💌	CHOP / Rituximab	13.Jan.2005	19.May.2005	CR 💌
2	Leeds	observation 💌	<u> </u>	19.May.2005	10.Jun.2006	PD 💌
3	Leeds	chemotherapy 💌	DHAP / Rituximab	10.Jun.2006	04.Jul.2006	~
4	Leeds	chemotherapy 💌	Cyclophosphamide	04.Aug.2006	04.Aug.2006	~
5	Leeds	chemotherapy 💌	BEAM	04.Sep.2006	01.Jan.1000	~
6	Leeds	stem cell transplant 💌	<u> </u>	12.Sep.2006	12.Sep.2006	CR 💌
7	Leeds	observation 💌	<u> </u>	29.Sep.2006		~
8	~	>	<u> </u>			~

Summary of Patient Pathway: Follicular Lymphoma





CR = complete remission PD = progressive disease

CHOP-R = Cyclophosphamide, Vincristine, Doxorubicin, Prednisolone - Rituximab R-DHAP = Rituximab - Dexamethasone, Cisplatin, Cytarabine GCSF = Granulocyte Colony-Stimulating Factor BEAM = Carmustine, Cytarabine, Etoposide, Melphalan, Thaw and re-infuse haemopoietic stem cells CVP-R = Rituximab - Cyclophosphamide, Vincrisitine, Prednisolone FCR = Fludarabine, Mitoxantrone, Dexamethasone - Rituximab

Patient Follow-up: Outcomes

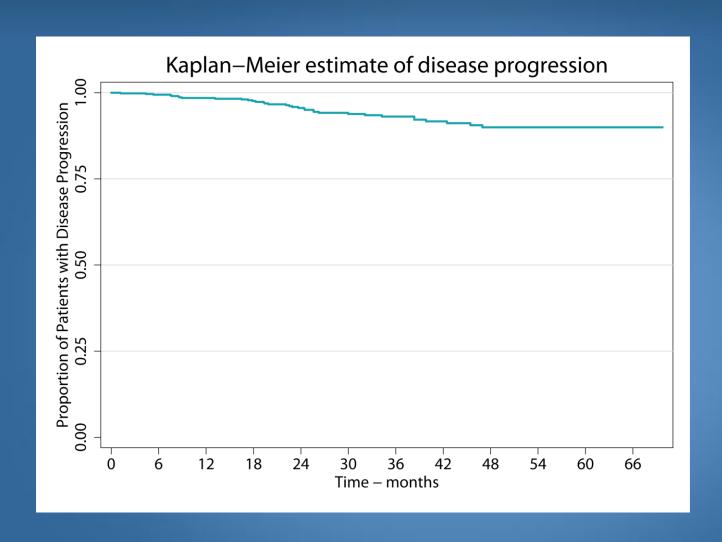


Response recorded using standard criteria

Disease progression

Disease Progression





Patient Follow-up: Outcomes



Response recorded using standard criteria

Disease progression

- Survival
 - All HMRN patients 'flagged' at the NHS Central Register
 - Electronic Monthly Updates
 - Date of Death
 - Cause of Death
 - Underlying Cause of Death

Summary of Routine Data Sources and Analysis



Diagnostics



Demographics



Prognostics



Treatment



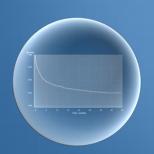
Death Certificates



Follow Up



Descriptive Epidemiology



Survival



Aetiology



Patient Pathway



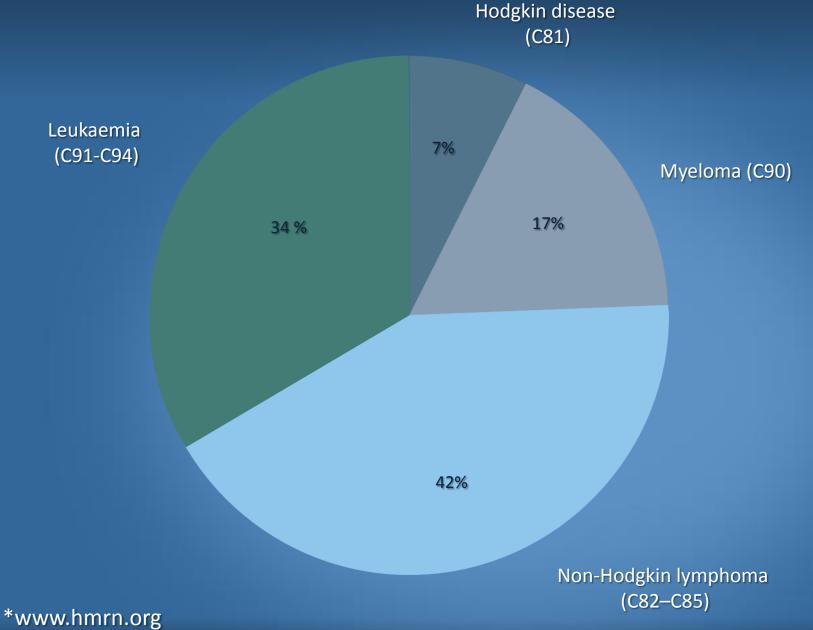
Health Economics



Audit

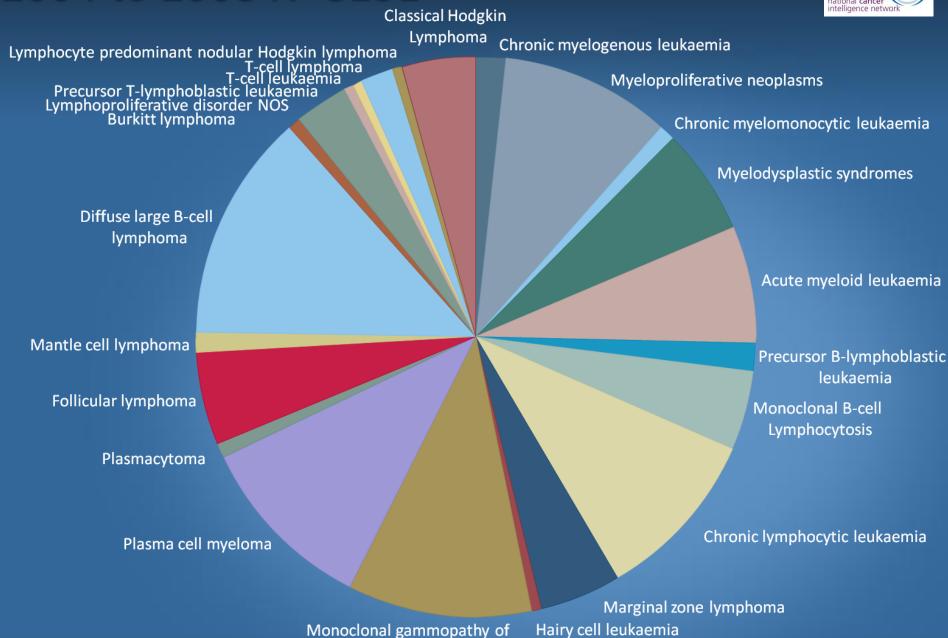
2004 to 2008, ICD-10 (n=8131)





2004 to 2008 N=8131





undetermined significance



Welcome to the Haematological Malignancy Research Network

On these pages you will find information about haematological cancers and related blood disorders

HMRN is a comprehensive population-based register that effectively links diagnostics and prognostics with data on outcome and treatment, providing a unique opportunity to gain insight into aspects of haematological cancer that cannot be studied elsewhere

This site is intended for anyone interested in haematological malignancy. It contains information for patients, statistics for researchers, as well as a section for the clinical teams working across the network

Click the button below to enter the site



HMRN covers a population of 3.6 million and accrues around 2,000 new haematological cancers each year. It is based in the UK Cancer Networks of Yorkshire and Yorkshire Coast, and the population is broadly representative of the UK as a whole. All haematological malignancies, including transformations and progressions, are centrally reviewed and coded using the latest techniques by internationally recognized experts. Clinical care is provided by a single unified network, and following diagnosis information on demographics, prognostics and staging, as well as details about all treatments, responses and relapses is abstracted onto highly structured forms - each cancer having its own specially tailored version. A critically important feature of the abstraction process is the emphasis on primary source data, which enables embedded computerised algorithms to automatically generate staging and prognostic scores at the time of data entry.

Disclaimer: We have tried to ensure that the information provided on this site is accurate and up-to-date, but it should not be relied upon. If you are concerned about your health you should consult your doctor, HMRN cannot accept liability for any loss or damage resulting from any inaccuracy in our information or in third-party information on websites to which we link.













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Information

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Diagnostics

Resources

Chronic Myelogenous Leukaemia (CML) accounts for approximately 1.6% of all haematological neoplasms newly diagnosed in the UK.

Incidence

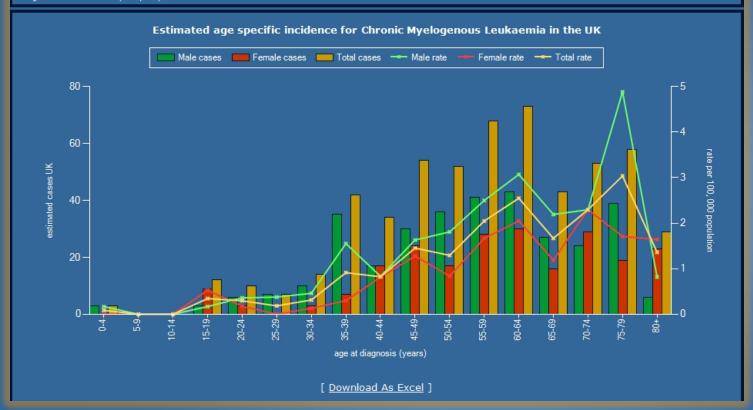
Quickstats

Rate per 100,000 ¹		M-F	Median age at	Expected UK cases	ASR per 100,000 ³			
Total	Male	Female	M:F rate ratio ¹	diagnosis ¹	per year ²	Total	Male	Female
1.0	1.2	0.7	1.7	59	550	0.9	1.1	0.6

¹ HMRN 2004-09

 2 Estimated by applying HMRN age and sex specific rates to 2001 UK population census strata

³ Age standardised rates (European)





How can HMRN data inform national understanding?

Comparing HMRN and National Cancer Data Repository Data

- Eighteen month project funded by NCIN
- Key elements
 - Develop predictive models at national level for disease incidence and prevalence based on HMRN data
 - Comparison between predicted and observed data (i.e. registered) initially within NYCRIS (HMRN based in 2 of the 3 regional networks)
 - Comparisons between predicted and observed data for all English registries
- Seek better understanding of levels of underenumeration and misclassification

What other work is going on?



- National incidence, mortality and survival by 'clinical groups'
 - Limited to ICD-10 categories
 - Separate out: ALL, AML, CML, CLL...
- Place of death updated to 2009
- Hospital activity in the last year of life
- Bed stay and pathways through secondary care
- Work with UK Association of Cancer Registries on coding rules for haematological cancer