Short-term survival of children with cancer in the UK

NCIN Children, Teenagers & Young Adults SSCRG

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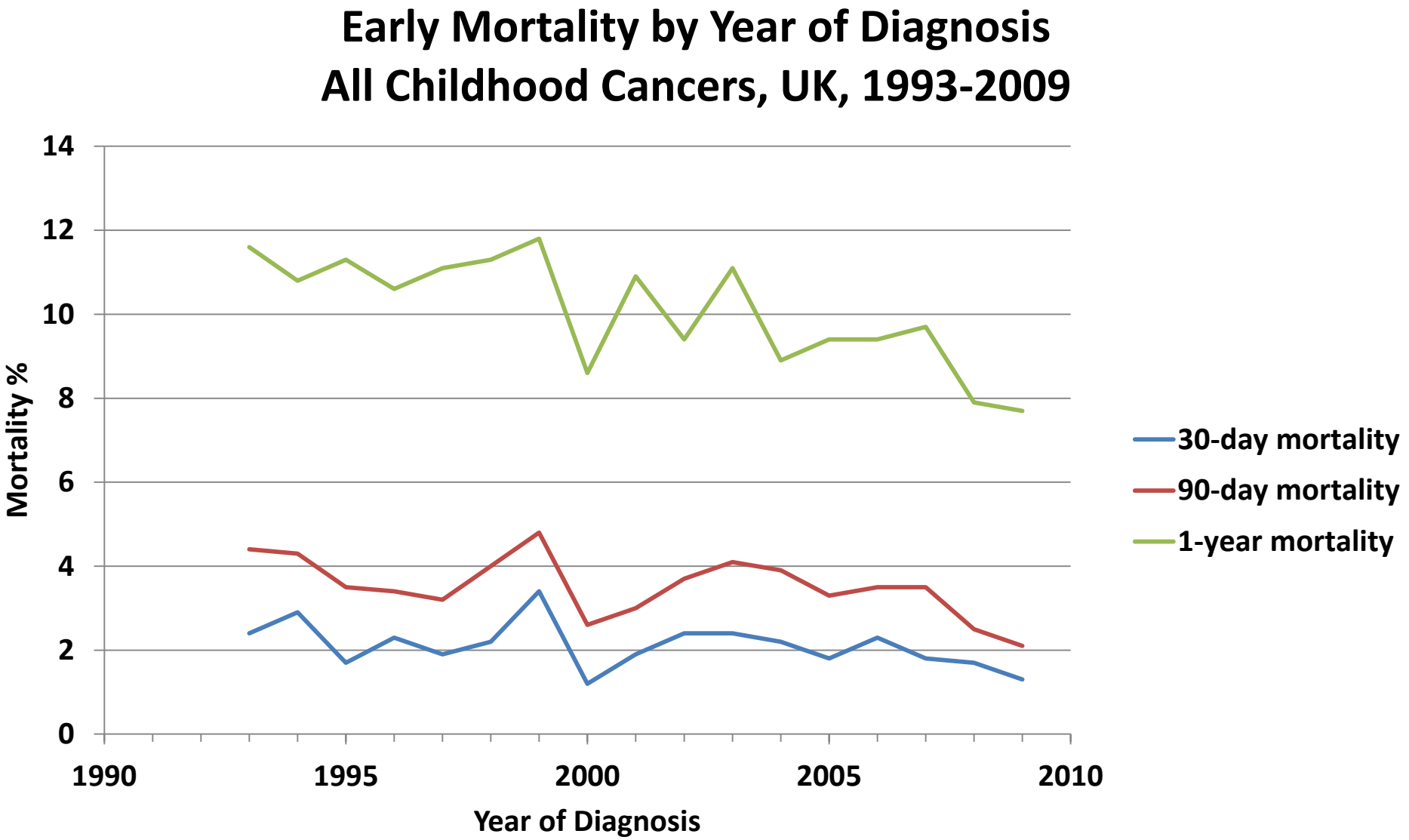
Background

Survival rates are high for childhood cancer overall and for most types of childhood cancer

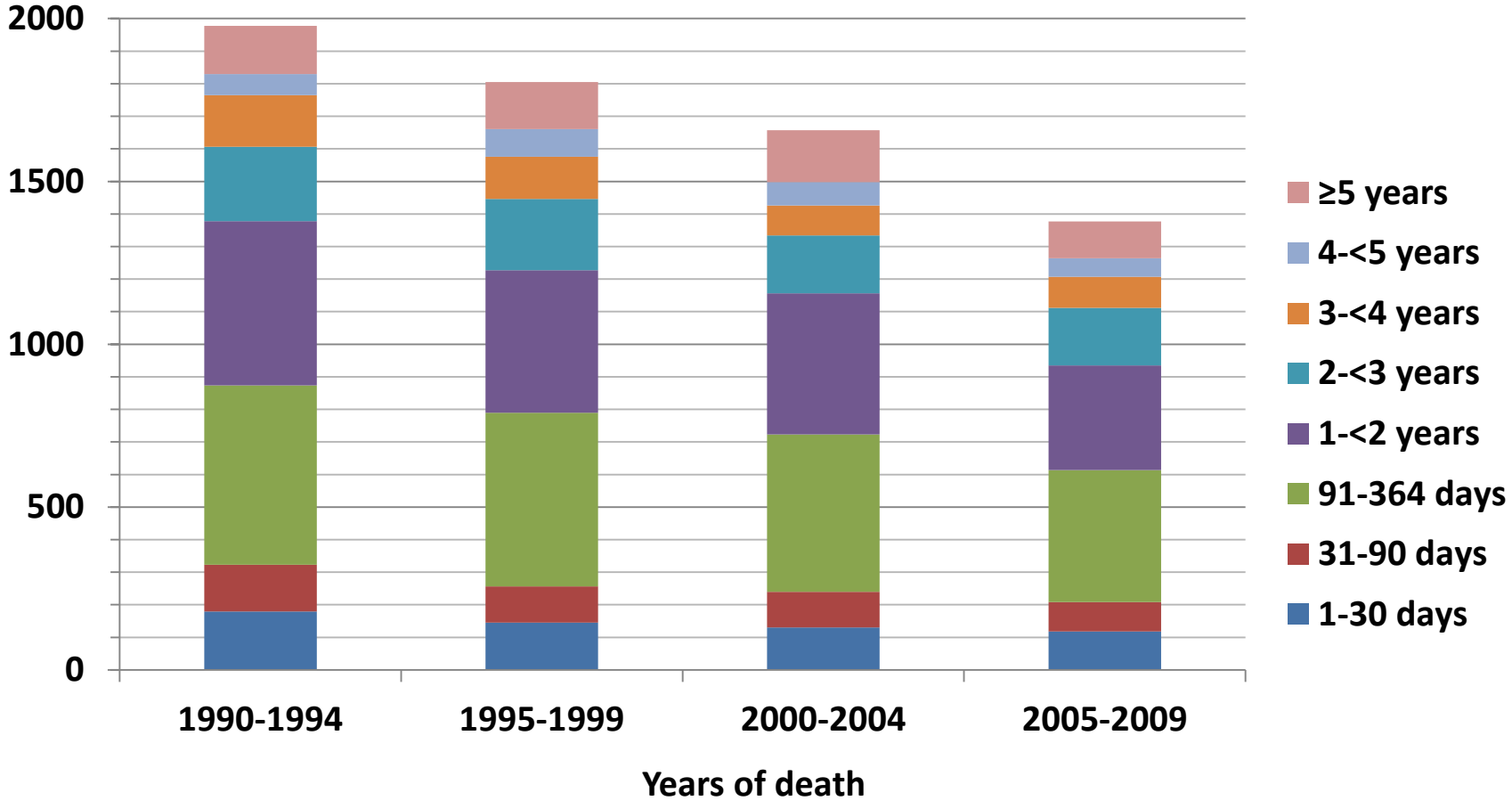
Greatest risk of dying is in first year after diagnosis

It is commonly believed that low short-term survival represents impact of delayed diagnosis as well as treatment-related mortality

Reductions in short-term mortality could make important contribution to increasing long-term survival


Early Mortality by Year of Diagnosis
All Childhood Cancers, UK, 1993-2009
Mortality %
14
12
10
8
6
4
2
0
1990
1995
2000
2005
2010
Year of Diagnosis
30-day mortality
90-day mortality
1-year mortality

Children with previous cancer diagnosis dying at age <15, Great Britain, 1990-2009
Interval from diagnosis to death, by year of death



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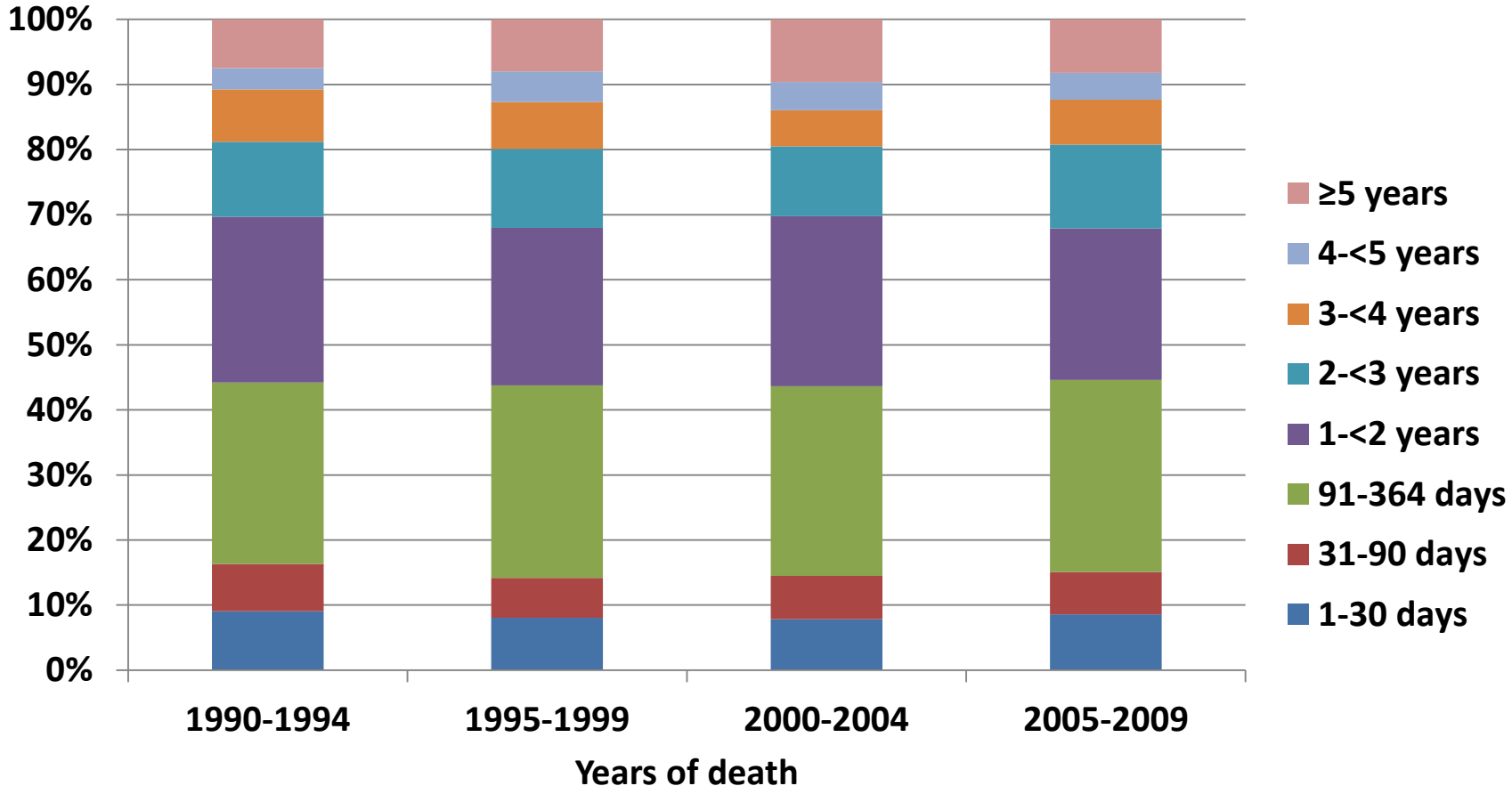
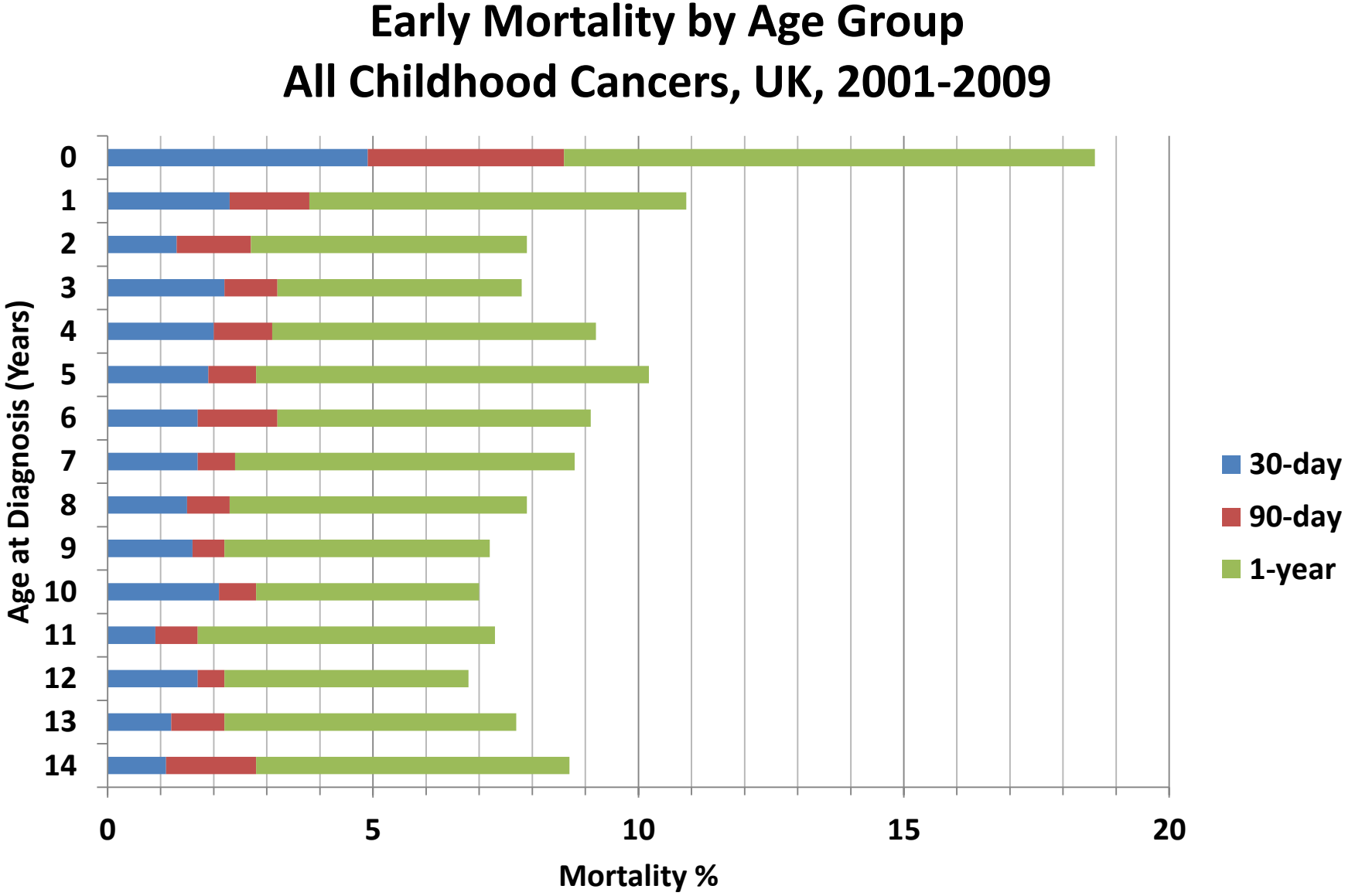
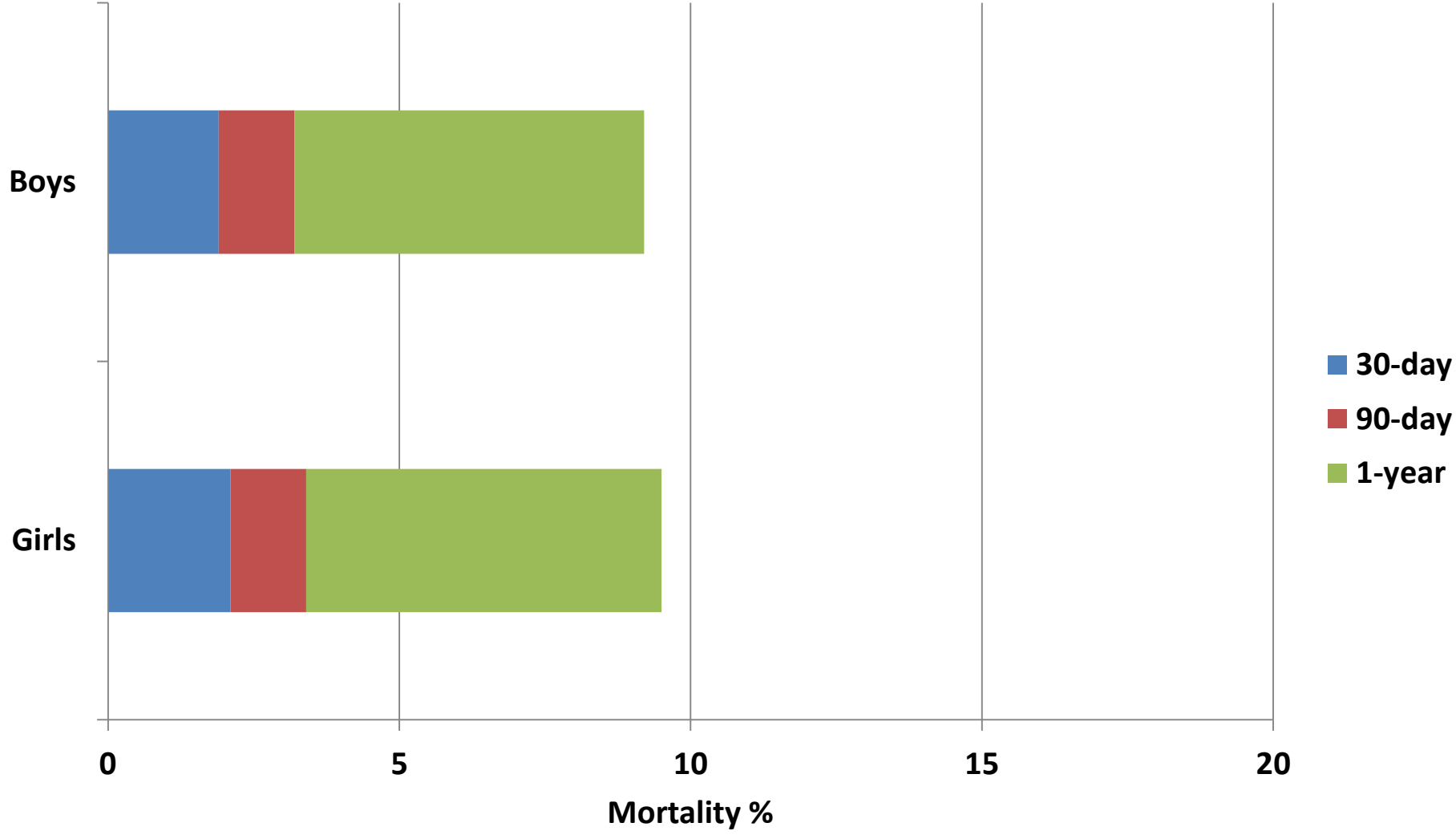
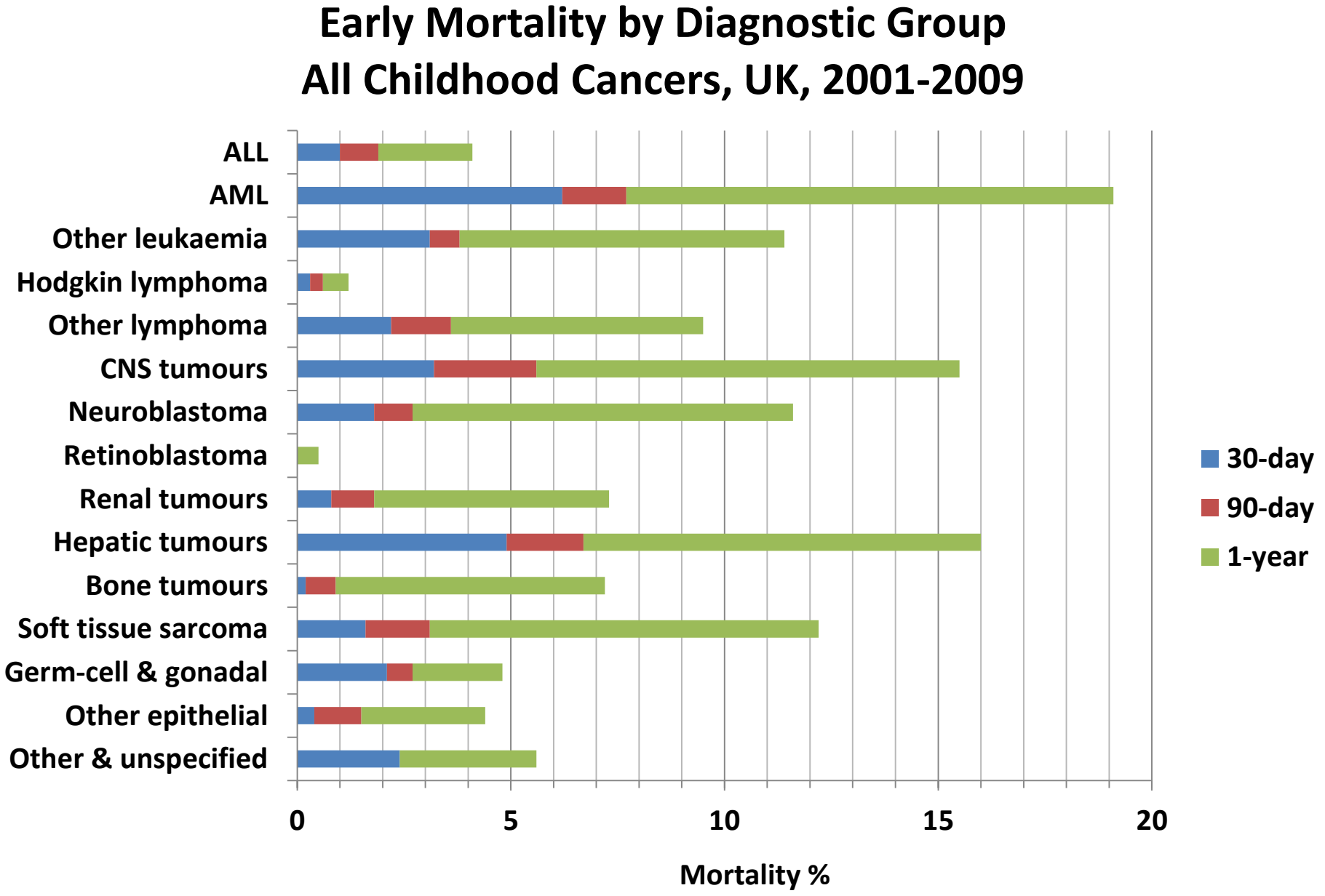



Early Mortality by Age Group
All Childhood Cancers, UK, 2001-2009
Age at Diagnosis (Years)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
0
5
10
15
20
Mortality %
30-day
90-day
1-year

Early Mortality by Sex
All Childhood Cancers, UK, 2001-2009




Early Mortality by Diagnostic Group
All Childhood Cancers, UK, 2001-2009
ALL
AML
Other leukaemia
Hodgkin lymphoma
Other lymphoma
CNS tumours
Neuroblastoma
Retinoblastoma
Renal tumours
Hepatic tumours
Bone tumours
Soft tissue sarcoma
Germ-cell & gonadal
Other epithelial
Other & unspecified
0
5
10
15
20
Mortality %
30-day
90-day
1-year

Conclusions

Short-term survival of children with cancer is very high

2% die within 30 days from diagnosis

<10% die within 1 year from diagnosis

Conclusions

Groups of patients with highest early mortality and correspondingly greatest scope for improving short-term survival are:

- **Infants under 1 year of age at diagnosis**
- **Children with acute myeloid leukaemia**
- **Children with CNS tumours**
- **Children with hepatic tumours**

Where to Find this Work

NCIN Data Briefing

Short-term survival of children with cancer

http://www.ncin.org.uk/publications/

Short_term_survival_data_briefing_childhood_final_150213.pdf

NCIN Report

Short-term survival of children with cancer

Further Work

- **Describe causes of death**
- **Is there any geographical variation?**