

Shared care and survival from childhood cancer in the UK, 1997-2009

NCIN Children, Teenagers & Young Adults Workshop

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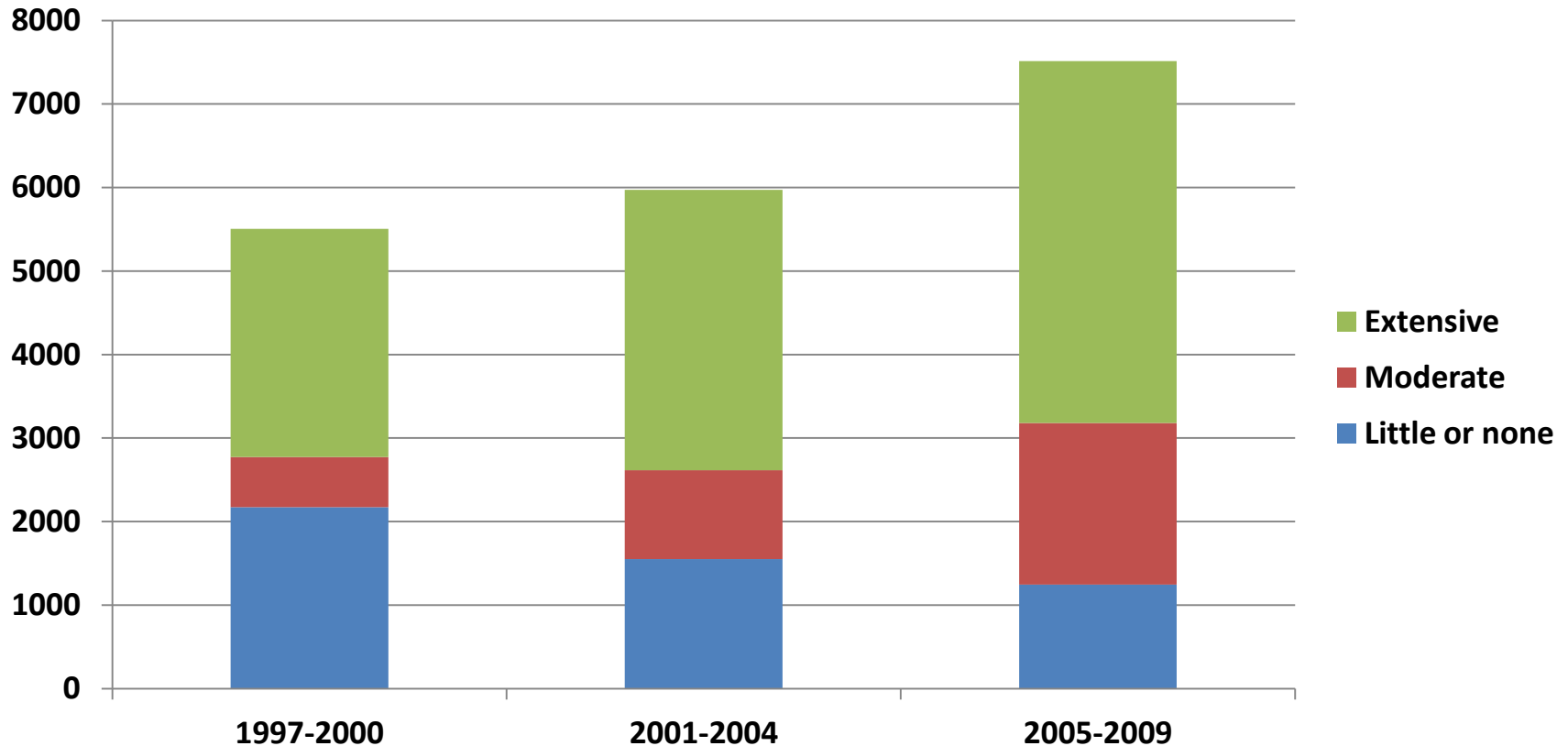
Principal treatment centres (PTCs) classified by extent of shared care

Data from survey of all UK PTCs

Extent	1997-2000	2001-2004	2005-2009
Little or none	10	8	5
Moderate	2	4	7
Extensive	8	8	8
Total	20	20	20

- Barts/Royal London excluded (ceased to be PTC during study period)
- East Midlands counted as 2 separate centres (Nottingham and Leicester) throughout study period

Children with cancer* registered from PTCs by extent of shared care at PTC UK, 1997-2009



*Retinoblastoma excluded

Two sets of survival analyses

By broad diagnostic groups

All cancers (except retinoblastoma)

Leukaemia & lymphoma

CNS tumours (incl. germ-cell)

Other solid tumours

Prognostic groups defined by 5-year survival

$\geq 90\%$, 80-89%, 70-79%, 60-69%, 50-59%, $< 50\%$

All cancers except retinoblastoma

Five-year % survival (95% CI)

Extent of shared care	1997-2000	2001-2004	2005-2009
Little or none	74 (72,76)	77 (75,79)	81 (79,83)
Moderate	76 (72,79)	76 (73,78)	82 (80,83)
Extensive	76 (75,78)	77 (75,78)	80 (79,82)

Survival did not vary significantly by extent of shared care at PTC in any calendar period

Leukaemia & lymphoma

Five-year % survival (95% CI)

Extent of shared care	1997-2000	2001-2004	2005-2009
Little or none	81 (78,83)	84 (81,87)	87 (84,90)
Moderate	81 (76,85)	85 (82,88)	89 (86,91)
Extensive	81 (79,83)	84 (82,86)	89 (87,90)

Survival did not vary significantly by extent of shared care at PTC in any calendar period

CNS tumours (incl. germ-cell)

Five-year % survival (95% CI)

Extent of shared care	1997-2000	2001-2004	2005-2009
Little or none	69 (65,73)	74 (69,78)	76 (71,80)
Moderate	66 (58,73)	70 (64,75)	76 (71,79)
Extensive	72 (69,75)	69 (66,72)	72 (69,75)

Survival did not vary significantly by extent of shared care at PTC in any calendar period

Other solid tumours

Five-year % survival (95% CI)

Extent of shared care	1997-2000	2001-2004	2005-2009
Little or none	68 (64,71)	71 (67,75)	77 (71,82)
Moderate	77 (70,82)	65 (59,70)	75 (71,79)
Extensive	72 (69,75)	72 (69,74)	75 (73,78)

Survival did not vary significantly by extent of shared care at PTC in any calendar period

Diagnostic groups with 5-year survival $\geq 90\%$

- **Hodgkin lymphoma**
- **Low-grade astrocytoma**
- **Craniopharyngioma**
- **Intracranial germinoma**
- **Wilms tumour**
- **Gonadal germ-cell tumours**
- **Thyroid carcinoma**
- **etc.**

Diagnostic groups with 5-year survival $\geq 90\%$

Five-year % survival (95% CI)

Extent of shared care	1997-2000	2001-2004	2005-2009
Little or none	93 (91,95)	93 (91,95)	95 (92,97)
Moderate	91 (85,95)	94 (91,97)	94 (91,96)
Extensive	94 (92,96)	94 (92,96)	94 (92,95)

Survival did not vary significantly by extent of shared care at PTC in any calendar period

Diagnostic groups with 5-year survival 80-89%

- **ALL, non-Down syndrome, age 1-14**
- **Non-Hodgkin lymphoma**
- **Neuroblastoma, age <1**
- **Hepatoblastoma**
- **Fibrosarcoma**
- **Synovial sarcoma**
- **etc.**

Diagnostic groups with 5-year survival 80-89%

Five-year % survival (95% CI)

Extent of shared care	1997-2000	2001-2004	2005-2009
Little or none	84 (82,87)	89(86,91)	90 (87,93)
Moderate	86 (81,90)	88 (84,90)	93 (90,94)
Extensive	85 (82,87)	88 (86,89)	91 (90,93)

Survival did not vary significantly by extent of shared care at PTC in any calendar period

Diagnostic groups with 5-year survival 50-59%

- **ALL, age <1**
- **JMML/CMML**
- **Neuroblastoma, age 1-14**
- **Osteosarcoma**
- **etc.**

Diagnostic groups with 5-year survival 50-59%

Five-year % survival (95% CI)

Extent of shared care	1997-2000	2001-2004	2005-2009
Little or none	45 (38,52)	51 (42,59)	63 (51,73)
Moderate	58 (42,70)	44 (34,55)	57 (48,65)
Extensive	51 (45,57)	56 (50,61)	64 (59,69)

Survival did not vary significantly by extent of shared care at PTC in any calendar period

Conclusion

**Survival did not vary significantly by extent of
shared care at PTC
in any calendar period
for any broad diagnostic group
or prognostic group**

Further Work

For report to be published soon

- **Look at ALL separately – shared care for ALL includes chemotherapy & supportive care, shared care for other diagnoses largely supportive care**

For journal article

- **Classify centres by whether they support level 3 (most devolved) shared care units – information should be available on CQINS (at least for English PTCs)**