Routes to Diagnosis

NCIN Sarcoma Workshop
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Overview

- The National Cancer Intelligence Network (NCIN)

- Datasets

- Routes to diagnosis
The NCIN

- Launched in June 2008

*Using information to improve quality and choice*

- Data collection, national data, analysis, supporting audit and research
- Cancer registries, health service researches, clinical champions…
- Under auspices of National Cancer Research Institute
Cancer Registration

- Eight cancer registries in England
- Collect information on all malignancies diagnosed
  - The patient: age, sex, postcode, date of death
  - The tumour: site, morphology...
  - Some treatment data
Datasets

National Cancer Registration Data

Hospital Episode Statistics
• Inpatient
• Outpatient

Going forwards on cancer waiting times

Radiotherapy (+ Chemotherapy) datasets

Screening data

Sarcoma Analyses
• Incidence + survival
• Treatment
• Routes to diagnosis
• …….. + other analyses
Routes to diagnosis
- bone and soft tissue sarcoma

• Overview
  • National Awareness and Early Diagnosis Initiative (NAEDI)
  • Improve survival rates/reduce cancer mortality
  • Routes to diagnosis
    – Impact on overall outcomes
Routes to diagnosis
- bone and soft tissue sarcoma

- Method
  - Date of diagnosis
  - Work backwards through other datasets
  - Establish events leading up to date of diagnosis
    - 8 routes to diagnosis established

<table>
<thead>
<tr>
<th>Routes to diagnosis</th>
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<tbody>
<tr>
<td>1. Screen detected</td>
<td>5. Inpatient elective</td>
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<tr>
<td>2. Two Week Wait</td>
<td>6. Emergency presentation</td>
</tr>
<tr>
<td>3. GP/outpatient referral</td>
<td>7. DCO</td>
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<tr>
<td>4. Other outpatient</td>
<td>8. Unknown</td>
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</tbody>
</table>
Routes to diagnosis (2006 – 2008) - bone and soft tissue sarcoma

• 9,656 sarcomas diagnosed (2006-2008)
  • 8,278 soft tissue
  • 1,378 bone

• What were the routes to diagnosis?
• Which factors determine routes to diagnosis?
  • Age at diagnosis
  • Cancer site
  • Histological sub-type
  • ……any other factors?
Routes to diagnosis

Different stories in each group!
Routes to diagnosis
- GP referral

Route to diagnosis

% Patients diagnosed

0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80+

Extremity

NCIN
national cancer intelligence network
Using information to improve quality & choice

NCRI
National Cancer Research Institute
Routes to diagnosis - GP referral

% Patients diagnosed

Route to diagnosis

Breast
Gynae
Extremity
Skin
Thorax

% Patients diagnosed

0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80+

NCRI
National Cancer Research Institute

Using information to improve quality & choice
Routes to diagnosis
- GP referral

Extremity
Head, face, neck
Skin
Thorax
Ribs!

% Patients diagnosed
Route to diagnosis
0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80+

Route to diagnosis

0% 10% 20% 30% 40% 50% 60%
Routes to diagnosis
- Emergency presentation

% Patients diagnosed

Routes to diagnosis

CNS (pNet)
Pelvic (Ewing’s, rhabdo)
Urinary tract (clear cell, embryonal rhabdo)
Lip, oral cavity, pharynx (rhabdo)

Anything!
Routes to diagnosis
- Emergency presentation

CNS (pNet)
Pelvic (Ewing’s, rhabdo)
Vertebral column

Route to diagnosis

% Patients diagnosed

GP referral
Emergency presentation
TWW
Inpatient elective
Other outpatient
Unknown

0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80+
Routes to diagnosis

- Emergency presentation

% Patients diagnosed

Route to diagnosis

Abdomen
Digestive organs
Gynae
Retroperitoneal
Pelvic

0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80+
Routes to diagnosis
- Two week wait

% Patients diagnosed
Route to diagnosis

- GP referral
- Emergency presentation
- Two week wait
- Inpatient elective
- Other outpatient
- Unknown

Breast (Phyllodes; angio)
Gynae
Urinary tract

Route to diagnosis

- 0-9
- 10-19
- 20-29
- 30-39
- 40-49
- 50-59
- 60-69
- 70-79
- 80+
Routes to diagnosis
- Inpatient elective

Extremity bone sarcomas
Routes to diagnosis
- Other outpatient

Route to diagnosis

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Digestive organs
Extremity soft tissue
Retroperitoneum
Routes to diagnosis
- Unknown route

Extremity bone sarcomas
Routes to diagnosis
- Unknown route

Kaposi’s Skin Extremity bone sarcomas
No stage data!
Summary

• Eight routes to diagnosis identified

• Routes vary with age and cancer site

• 1-year survival
  – Very poor 50+ emergency
    ➢ Intra-abdominal/pelvic cavities
  • 80+ unknown route
Further work

- Analyses for bone and soft tissue sarcoma
  - To be finalised and published on NCIN website

- Patients with “unknown” route to be investigated

- Staging data?
Thank you