1993 – Breast screening established
1994 – Northern Ireland Cancer Registry (NICR) established
1995 – Calman Hine Report (UK)
1996 – Campbell Report (NI)
2004 – NI Cancer Network (NICaN) established
2006 – Cancer Centre Opened
2008 – Waiting times initiative
2009 – Development of Cancer Patient Pathway System (CaPPS)
2011 – Cancer framework launched

CAMPBELL REPORT
The Campbell Report (1996) resulted from the work of many clinicians, service planners and patients who worked together with the aim of improving cancer services.
Key report recommendations
- Patients to be managed by multidisciplinary teams;
- Appropriate training for staff;
- Establishment of a single Cancer Centre and 4 other Cancer Units (one in each Health Board);
- Radiotherapy services to be moved to the Cancer Centre;
- Chemotherapy to be available in each Cancer Unit;
- Review of palliative services;
- Additional investment in oncology services.

NICR audits
- Conducted at five yearly intervals by reviewing clinical notes of patients registered with NICR.
- Cancers covered:
  - Upper GI: Oesophagus and stomach (96,01,05)
  - Colorectal (96,01,06)
  - Breast (96,01,06)
  - Lung (96,01,06)
  - Pancreas (01,07)
  - Thyroid (01/02,04/05)
  - Melanoma (06)
  - Ovary and cervix (96,01)
  - Lymphoma & Leukaemia (08)

Cancer trends
- In 2009 (ex. NMSC)
  - 4,260 male, 4,209 female cancer
  - 1,955 male, 1,832 female cancer deaths
  - Increase of 74 male and 60 female cases per year
  - Increased of 9 deaths per year for each sex
  - Change partially due to an increasing and ageing population.
- Male incidence rates decreased between 1993 and 1999 by 1.7% per year, but increased by 1.5% per year in 1999-2009.
- Female incidence rates increased by 0.6% per year between 1993 and 2009.
- Mortality rates decreased by 1.3% for males and 0.9% for females between 1993 and 2009.

Multidisciplinary team meetings
- The proportion of patients recorded as having had a MDT meeting increased year on year between 1996 and 2006
- A maximum of 67% was recorded as having had a MDT meeting (for rectal cancer patients
- It is expected that the use of the CaPPS system will improve recording of MDT meetings further.

Referral to oncology
- The proportion of patients referred to oncology increased for all cancer types between 1996 and 2001.
- A further increase was recorded between 2001 and 2006 for:
  - breast cancer
  - prostate cancer
  - cancers of the oesophagus and stomach.
- 2001 levels were maintained for lung and colorectal cancers.
Cancer Surgery Trends

- Increases for
  - Prostate cancer
- Little change for
  - Breast cancer
- Decreases for
  - Lung cancer (between 1996 and 2001)
  - colorectal cancer
  - upper GI cancer
- Reductions likely reflect better patient selection.

Chemotherapy Trends

- Increases for
  - Breast
  - Lung
  - Colorectal
  - Oesophagus
  - Stomach
- No decreases

Radiotherapy trends

- Increase for
  - Prostate cancer
  - Rectal cancer
  - Breast cancer (despite a slight drop between 2001 and 2006)
- Little change for
  - Lung cancer
  - Colon cancer
  - Upper GI cancers
- No decreases

Relative survival trends (1-year)

- Improvement in almost all forms of cancer - most not significant but survival did not worsen for any cancer site.
- Significant improvement:
  - 4.0% increase for female breast cancer
  - 13.5% increase for male prostate cancer
  - 5.9% increase for male colorectal cancer
  - 4.8% for lung cancer (both sexes combined)

Relative survival trends (5-year)

- Improvement in almost all forms of cancer - most not significant but survival did not worsen for any cancer site.
- Significant improvement:
  - 9.1% increase for female breast cancer
  - 24.7% increase for male prostate cancer
  - 10.6% increase for male colorectal cancer

Relative survival and stage

- Five-year relative survival for colorectal cancer in 1998-2002:
  - Stage I – 92.0%
  - Stage II – 78.8%
  - Stage III – 47.4%
  - Stage IV – 8.3%
Referral to palliative care specialist

- Increased between 1996 and 2001 for:
  - Lung cancer
  - Colorectal cancer
  - Upper GI cancers
- Increased again between 2001 and 2006 for upper GI cancers
- Decreased between 2001 and 2006 for colorectal cancer
- Little change for:
  - Breast cancer
  - Prostate cancer

Research at the Northern Ireland Cancer Registry

- Palliative care
- Early diagnosis
- International survival

Background

- Over 27% of all deaths (4,300 persons) in N.I. are due to cancer,
- Most cancer patients wish to end their life at home
- On average, only 32% and decreasing % of patients in N.I. achieve home death, with 48% dying in a hospital setting

Findings

- late Cancer Diagnosis
- ¼ Diagnosed last admission
- ¾ too ill to go elsewhere
- 4% difficulties care package / suitable hospice bed

Late Diagnosis of Cancer is a problem in UK, Ireland & Denmark

- Registry provides data for international studies
- e.g. Comparisons all Europe – Eurocare
- e.g. Comparisons – 14 areas including Canada, Australia, Sweden, Denmark, Norway, England and Wales
- International Cancer Benchmarking Project
Cancer survival compared: ICBP

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International Cancer Benchmarking Partnership

- Studies aim to explain the survival deficit in UK.
  - Awareness & beliefs (population survey of 2000 people aged 50+)
  - Primary care behaviour (survey of primary care beliefs, behaviour and attitudes)
  - Timelines from symptoms to treatment (An audit of delays in diagnosis and treatment for 200 patients in each cancer site)
  - Compliance with treatment guidelines (high resolution note review of treatment of 500 patients in each cancer site)

Early Detection / Prevention

Registry involved in

1. Identify high risk persons – Genetics Service links
2. Monitoring Screening Services – Breast / Cervix / Bowel
3. Pre Cancer Monitoring
   - Barrett’s Oesophagus
   - Bowel Polyps (funded UCF)
4. Research into promoting earlier diagnosis

What is needed?

- To reduce incidence
  - Improved lifestyle, such as reduction in smoking, improved diet, increased physical activity, reduction in alcohol consumption
- To improve survival
  - Earlier diagnosis through increased symptom awareness
- Legislative Framework for Cancer Registration