Cancer Cascade Workshop

Novotel, Reading
22<sup>nd</sup> November 2018

Dr Richard Roope
RCGP and Cancer Research UK Cancer Clinical Champion
Senior Clinical Advisor Cancer Research UK
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What’s new?
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What’s new?

• Background setting - Globocan 2018
• Prevention: (Smoking), obesity and inequalities
• Early diagnosis
• NCDA 2017/18:
• E-updates
• Blood cancers
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What’s new?
• Globocan 2018
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What’s new?

• Globocan 2018:

“(Global) Cancer burden rises to 18.1 million new cases and 9.6 million cancer deaths in 2018”\(^1\)

“...cancer is expected to rank as the leading cause of death and the single most important barrier to increasing life expectancy in every country of the world in the 21st century.”\(^2\)

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What’s new?

• Globocan 2018 – <70 deaths: cancer ranking
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What’s new?

- Globocan 2018
- Most prevalent cancer

Males:

Females:

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Estimated age-standardized incidence rates (World) in 2018, all cancers, both sexes, all ages
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Estimated age-standardized mortality rates (World) in 2018, all cancers, both sexes, all ages

Data source: GLOBOCAN 2018
Graph production: IARC
(http://gco.iarc.fr/today)
World Health Organization
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Estimated number of prevalent cases (5-year) as a proportion in 2018, all cancers, both sexes, all ages

Data source: GLOBOCAN 2018
Graph production: IARC
(http://gco.iarc.fr/today)
World Health Organization
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Human Development Index vs Incidence - ASR (World), all cancers excl. non-melanoma skin cancer, in 2018, both sexes, all ages

UK
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What’s new?

• Globocan 2018

[Image of a pie chart and map showing cancer statistics for the United Kingdom, with categories for prostate, breast, lung, and other cancers.]
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What’s new?
• Globocan 2018

“Although there are several interventions that have proven to be an effective means of cancer prevention, international efforts to promote and implement primary prevention still lack momentum, and policymakers remain unaware of the degree of progress and the benefits that prevention brings.”

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What’s new?
- Globocan 2018

“Although there are several interventions that have proven to be an effective means of cancer prevention, international efforts to promote and implement primary prevention still lack momentum, and policymakers remain unaware of the degree of progress and the benefits that prevention brings.”

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What’s new?
Smoking, Obesity and inequalities
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What’s new?
Obesity data:

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What’s new?
Obesity data:

Prevalence of obesity in adults (aged 16+)
Source: Health Survey for England

Public Health England

2014-2016

Males
The national prevalence rate is 26.4% (averaged) for this 3 year time period

Females
The national prevalence rate is 27.3% (averaged) for this 3 year time period

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What’s new?

Childhood obesity data:

Year 6: Prevalence of severe obesity

http://laca.co.uk/100000-primary-school-children-england-are-%E2%80%98severely-obese%E2%80%99 Accessed 13.10.18
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What’s new?
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What’s new?

Obesity data:

• CRUK analysis finds that obesity could cause 670,000 cases of cancer in the UK over the next twenty years unless action is taken to reduce trends.
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What’s new?
Obesity data: Raising awareness

OB_S__Y is a cause of cancer
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What’s new?

Obesity data:

Guess what is the biggest preventable cause of cancer after smoking.

Guess what is the biggest preventable cause of cancer after smoking.
What’s new?
Obesity data:
24.9.18 Press Release:
BY 2043 OBESITY COULD OVERTAKE SMOKING AS BIGGEST PREVENTABLE CAUSE OF CANCER IN WOMEN
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What’s new?
Obesity strategy:
LET’S EASE THE PRESSURE ON YOUNG PEOPLE

NO JUNK

TIME FOR JUNK FOOD AD RESTRICTIONS BEFORE 9PM
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What’s new?

Obesity strategy:
• Regulation of on-demand and online viewing adverts
• Introduce legislation to restrict multi-buy price promotions on HFSS foods - e.g. ‘buy one, get one free’, ‘three for the price of two’, and ‘X for £Y’ offers.
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What’s new?
Early diagnosis:
What’s new?
Early diagnosis: PM 3.10.18:

• Cancer will form a central part of the new long-term plan for the NHS
• The key to boosting your chance of surviving cancer is early diagnosis
• We will increase the early detection rate from 50% today, to 75% by 2028
• We will do it by lowering the age at which we screen for bowel cancer from 60 to 50. By investing the very latest scanners. And by building more Rapid Diagnostic Centres – one stop-shops that help people get treatment quicker
• This will be a step-change in how we diagnose cancer.
• It will mean that by 2028, 55,000 more people will be alive 5 years after their diagnosis compared to today
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Early diagnosis: PM 3.10.18:

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What’s new?
Early diagnosis: PM 3.10.18:
Impact:
• Primary Care
• Diagnostics
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How have we done?

<table>
<thead>
<tr>
<th>Month</th>
<th>Emergency Diagnosis %</th>
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<tbody>
<tr>
<td>Dec-12</td>
<td>21.0%</td>
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<tr>
<td>Mar-13</td>
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<tr>
<td>Jun-13</td>
<td>20.8%</td>
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<tr>
<td>Sep-13</td>
<td>20.5%</td>
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<td>Dec-13</td>
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http://www.nacin.org.uk/cancer_type_and_topic_specific_work/topic_specific_work/cancer_outcome_metrics (last accessed 17.11.18)
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Ambition by 2028

Early Stage Diagnosis

http://www.ncin.org.uk/cancer_type_and_topic_specific_work/topic_specific_work/cancer_outcome_metrics (last accessed 17.11.18)
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NCDA 2017/18: findings (2014 data)
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NCDA 2017/18: findings (2014 data)

After lunch...
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NCDA 2019 – coming soon
Benefits to CCGs, Practices, GPs and patients

More after lunch...
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What’s new?
What’s new?
• Bowel Cancer
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What’s new?

• Bowel Cancer – FIT screening is coming:
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• Importance of bowel screening
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• Importance of bowel screening

Relative survival estimates by presentation route and survival time, Colorectal, 2006-2013

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• Importance of bowel screening

Relative survival estimates by presentation route and survival time, Colorectal, 2006-2013

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• Importance of bowel screening

• Screening presentations – hugely better outcomes

• Should be area of priority
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• Lung screening
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• Lung screening
• 26.9.18: Screening scans 'could cut lung cancer deaths'

NELSON study
Study arm – CT scans at 1, 3, and 5.5 years
Control arm – none

Study arm: 69% of detected cancers were at Stage 1
26% reduction in lung cancer deaths at 10 years

More research needed…

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• Lung screening
• Manchester Health Check Study
• Achieved significant stage shift:

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- Lung screening
- Manchester Health Check Study
- Achieved significant stage shift:
  - Prior to study: Stage 1 18%: Stage 4 48%
  - Study results: Stage 1 65%: Stage 4 13%

- More research needed…
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What’s new?

• HPV cervical screening is coming:
• HPV for boys as well...
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Cancer deaths in 2014:

- Lung: 35,620
- Bowel: 16,384
- Prostate: 11,631
- Breast: 11,563
- Pancreas: 9,263
- Oesophagus: 8,804
Cancer deaths in 2014:

- Lung 35,620
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Where do the combined blood cancer deaths come?
Cancer deaths in 2014:

- Lung: 35,620
- Bowel: 16,384
- Prostate: 11,631
- Breast: 11,563
- Pancreas: 9,263
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Where do the combined blood cancer deaths come?

Discuss with neighbour...
Cancer death rates in 2014:

- Lung: 35,620
- Bowel: 16,384
- Blood cancers: 13,015
- Prostate: 11,631
- Breast: 11,563
- Pancreas: 9,263
- Oesophagus: 8,804
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Blood cancer deaths in 2016

- Non-Hodgkins Lymphoma: 38%
- Leukaemia: 36%
- Myeloma: 24%
- Hodgkins Lymphoma: 2%
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Blood cancers – NG12:

• Pallor
• Persistent fatigue
• Unexplained fever
• Unexplained persistent or recurrent infection
• Generalised lymphadnenopathy
• Unexplained bruising/bleeding/petechiae
• Unexplained bone pain
• Hepatosplenomegaly
  • Urgent FBC
Blood cancers – NG12:
  • Persistent bone pain/back pain/unexplained #/raised Ca++/low wbc/raised ESR in >60s
    • Urgent protein electrophoresis
    • BJP
Blood cancers – NG12:

- Unexplained lymphadenopathy/splenomegaly
- Esp if: night sweats, fever, SOB, pruritis, weight loss, alcohol induced LN pain
  - Urgent 2ww referral
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What’s new?

• Early detection of multiple myeloma in primary care using blood tests: a case–control study in primary care

• Constantinos Koshiaris, Ann Van den Bruel, Jason L Oke, Brian D Nicholson, Elizabeth Shephard, Mick Braddick and William Hamilton

• Br J Gen Pract 2018; 68 (674): e586-e593. DOI: https://doi.org/10.3399/bjgp18X698357
What’s new?

- Early detection of multiple myeloma in primary care using blood tests: a case–control study in primary care
- Blood tests showing normal FBC, ESR/PV and Calcium can be used to “rule-out” myeloma

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What’s new?
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• Background setting - Globocan 2018
• Prevention: Smoking, obesity and inequalities
• Early diagnosis
• NCDA 2017/18:
• E-updates
• Blood cancers
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What’s new?
• LOTS...!!!
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What’s new?
• LOTS...!!!

KEEP CALM EXCITING TIMES AHEAD !!
THANK YOU