The SCPN are committed to getting the word about cancer prevention out to individuals, health professionals, policy makers and government. We want to let everyone know what they can do to stack the odds against developing cancer through lifestyle choices. It’s not enough for individuals to attempt to change. Health professionals, cancer charities and other agencies with an interest in this field want to be informed about the latest research on how to support that change. Policy makers and government also have a role to play in ensuring our environment and legislative structures enable change rather than inhibit it.

We promote action for cancer prevention by disseminating news on recent research, initiatives and events through our website, newsletters and social media platforms.

Advisory group
We are delighted to welcome some new members to our advisory group. They come with a breadth and wealth of experience which will really strengthen the group and help steer SCPN in the right direction.

Elspeth Banks is a recently retired secondary head teacher, cancer survivor and a very experienced patient/lay advocate. Elspeth is very active as a co-applicant and trial management and steering group member for a number of clinical trials. She is a Trustee for the charity Independent Cancer Patients’ Voice.

Nicola Barnstaple is the national lead for cancer access for the Scottish Government including the strategic planning, management, coordination and delivery of the SG Detected Cancer Early (DCE) Programme and provides performance support to NHS Boards to support achievement of cancer waiting times in Scotland.

Alison Douglas joined Alcoholic Focus Scotland (AFS) as Chief Executive in December 2015. AFS’s mission is to prevent and reduce alcohol harm, including cancer, by advocating for effective policy interventions at population level. Alison’s commitment to tackling alcohol harm stems from her time as Head of Alcohol Policy and Delivery at Scottish Government from 2007 to 2012 when she was responsible for developing and implementing Scotland’s national alcohol strategy, “Changing Scotland’s Relationship with Alcohol”.

Elizabeth McLennan is an FY1 Doctor. While at university she became involved with SCPN Students where she found an interest in cancer prevention and its integration into medical education. In 2016, she began representing the SCPN at the European Cancer Leagues’ annual conference as a Youth Ambassador for Cancer Prevention.

Elective bursary
We were delighted to present Ehsan Salim with our 2017 SCPN elective bursary, a £300 award to support a period of elective study on a topic relating to cancer prevention. Ehsan, a 3rd year medical student at the University of Glasgow, will be undertaking a 4-week placement with a gastroenterologist/surgeon who has a special interest in oncology of the GI and oesophageal reflux disease in Melbourne, Australia. He hopes to use this period of study to learn more about how the risk factors for GI cancers, e.g. obesity, impact on individuals and healthcare systems and what clinicians can do to educate patients and support them to reduce their risk factors. Congratulations on receiving this award Ehsan and we look forward to hearing how you got on with your studies in Melbourne.

Survey coming soon
Every year the SCPN want to hear your opinions on what we are doing. We do this by sending all our members an email with a link to an online survey. Please take a few minutes out of your busy day to complete the survey. We really are very grateful for all your feedback and we do listen and adjust our plans accordingly. We will send the survey link out towards the end of summer and look forward to hearing from you!
What must we do to achieve a tobacco-free generation by 2034?
Sheila Duffy, Chief Executive ASH Scotland

The Scottish Government will shortly begin developing a new tobacco strategy, setting out the next steps towards the target of Scotland being tobacco-free by 2034. This is defined as an adult smoking rate of 5% or less and therefore focuses on culture change, not prohibition. ASH Scotland has articulated the target as limiting smoking to the small number of informed adults who actively choose to do so – a positive, fair-minded and socially-inclusive approach to this complex issue.

We talk of the target in terms of creating a tobacco-free generation in Scotland, which nicely illustrates this positive aspiration for our children. And it builds on the successes we have achieved. The youth smoking rate has plummeted since the mid-1990s, down from 30% to 7% amongst 15 year olds. Yet putting the emphasis on the next generation risks neglecting the importance of engaging existing adult smokers, without whom the 2034 goal will not be achieved.

The adult smoking rate has declined at a fairly steady 0.7% per year since the Scottish Parliament was established in 1999. Extrapolating that trend to 2034 comes close to the 5% figure, which could be taken to suggest that we can just continue as we are in order to achieve the 2034 target. However this does make the crucial assumption that the proportion of smokers who quit increases every year. It also neglects the fact that smoking rates are much higher in disadvantaged communities, so that the reduction in smoker numbers needed to reach the target is much higher in more disadvantaged areas.

With 2034 being just 17 years away, most of the people currently in the peak smoking years of the 20s, 30s and 40s will still be around. From this we can see that while the 2034 target may often be framed in terms of the next generation, it will stand or fall on whether existing adult smokers continue to smoke.

ASH Scotland concludes that the largest part of achieving a 5% smoking rate by 2034 must come from increasing quit rates amongst existing adult smokers in disadvantaged communities. While it is important to raise the next generation free from tobacco, this is too slow a process to deliver a 5% smoking rate in 17 years time.

Such a substantial shift in quit rates is compatible with culture shift, rather than prohibition, because a consistent two thirds of smokers say that they want to stop. This suggests that a 21% adult smoking rate masks an underlying “willing smokers” rate of only 7% of the population. On these figures nearly 90% of the shift to a 5% smoking rate comes solely from supporting smokers who wish to stop in their aim.

The challenge which the next Scottish Government tobacco strategy must address is to identify, develop and support the interventions which can do this. The Scottish Parliament was established in the mid-1990s, down from 30% to 7%

Scottish fruits and vegetables – summer

In terms of cancer, plant foods are more protective than animal foods and data suggest that bioactive components in berries may be important in cancer prevention.

One important compound found in (red) raspberries, strawberries and blackberries is the tannin called ellagic acid (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4069806/). This is a phenolic compound with potent antioxidant properties. Laboratory experiments report that rodents fed ellagic acid before, and during, exposure to carcinogens developed less liver, lung and oesophageal cancers than rats fed a normal diet. Further research is needed to explore the mechanism of action of ellagic acid in the liver, where it may help to promote the production and consumption of Scottish berries by people in Scotland.

Serves 4

• 2 tbsp olive oil
• 2 x 10cm sprigs of fresh rosemary
• 1 tbsp best honey (we like acacia)
• 160-200g of best cherry tomatoes, washed and halved
• 160-200g ripe seedless watermelon, rind removed and flesh cubed
• OR scooped with a little salt, if desired. Serve.

Method:

1. Heat the oil in a small saucepan over a medium flame and add the rosemary sprigs. Sizzle gently until lightly browned (about 30 seconds) – do not take your eye off of the pan. Remove the sprigs to a paper towel and save the oil to use in a sec.

2. Stir the honey and yogurt together in a small bowl; spread it over a wide, shallow bowl or divide between individual bowls.

3. Combine the watermelon, tomatoes and lemon juice in a bowl and add to the yogurt. Drizzle with the rosemary oil, crumble over rosemary and sprinkle over with a little salt, if desired. Serve.

Watermelon and Tomato Breakfast Salad
Kellie Anderson, MSc kelliesfoodblog.com

The website www.nhsinform.scot has been fully redesigned bringing a range of new content and features to help people manage their own health and wellbeing.

Accordingly, a new Communications Toolkit and Digital Assets have been created to support the promotion of the redesigned service. Within the documents you will find:

• content for newsletters
• social media messages using hashtag #nhsinform
• samples of images

If you or your organisation use these to help support the promotion of the NHS inform service over the next few months, particularly in any communications aimed at the general public e.g. newsletters, blogs, events, posters etc; if you would like any resources/images for your service, please do not hesitate to get in contact. Email HISPpartnership&Engagementteam@nhsx24.scot.nhs.uk

As smoking is the greatest preventable cause of cancer, achieving the tobacco-free goal would deliver a significant decrease in future cancer rates.

The Scottish Cancer Foundation or any of its officers

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What to do with berries

• Raw and Natural: Add fresh berries to porridge or other cereals
• Gently cook raspberries with cinnamon and a pinch of sugar – serve with natural or vanilla yogurt
• Freeze raspberries or blackcurrants in ice cube trays and add to sparkling water with strawberry and orange slices
• Berry lunch deal - mix baby spinach, rocket, goats cheese, flaked almonds with strawberry and raspberry yoghurt
• Scottish salmon with berry salsa (over and chill chopped cucumber, spring onion, coriander, yellow pepper, olive oil or lemon) - serve with natural or vanilla yogurt
**ActWELL update**

Amy Hickman, Volunteer Service Co-ordinator, Breast Cancer Now

As part of the Scottish Government cancer strategy, a team of researchers are now working with Breast Cancer Now on a trial of a lifestyle intervention programme (ActWELL) introduced to women at breast cancer screening and delivered by Breast Cancer Now volunteer coaches. If you would like more information about the study please visit actwellystudy.org when it goes live in August.

Breast Cancer Now has had a fantastic response to recruitment for ActWELL volunteer lifestyle coaches. In total they received 102 applications, from which 52 applicants were invited to an information and selection session. Following this, 26 volunteers were invited to the first ActWELL training, which took place over two days in June.

The training was delivered by a fabulous team made up of staff from the University of Dundee, the University of Edinburgh and Breast Cancer Now. Participants were welcomed by Baronsess Delyth Morgan, CEO of Breast Cancer Now, who highlighted the charity’s commitment to achieving ‘A future where everybody who develops breast cancer lives – and lives well’. Breast Cancer Now’s team of lifestyle coaches bring with them a wide range of skills and experiences. Many come from a health professional background, including nurses, GPs and dieticians, while others work as fitness instructors, counsellors, and teachers or in the voluntary sector. These lifestyle coaches will offer one-to-one support around sustainable lifestyle changes, focusing on physical activity (principally walking), diet and body weight, to participants recruited to the trial.

**Reduction from childhood to later life**

Anna Gryka, Obesity action Scotland

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**The Golden Games: it’s all about what you can do**

Lorraine Tulloch, Programme Lead, Obesity Action Scotland

As of 2020, the Scottish Government is leading the way in the integration of physical activity and preventative and rehabilitative health management. Developed in 2011, the free physical activity festival for older adults this year saw over 500 participants take part in a range of exercise classes and activities. The innovative programme is delivered by the Active Aberdeen Partnership, a body comprising 10 leading organisations committed to making Aberdeen the most active city in Scotland by 2020.

The Golden Games is a positive response to an ageing population, which typically experiences more complex care needs including cancer and dementia. Studies have consistently demonstrated the positive impact of a healthy, active lifestyle on the physical and mental wellbeing of people across all ages. As the heart of this initiative is a focus on what people can do, rather than what they can’t.

The Games have grown from 5 activities delivered over 2 days with 80 participants taking part in 2011, to 84 activities delivered over 7 days, with over 1,800 bookings in 2017. The range of activities are designed to be accessible to everyone, including seated exercise classes, tennis, walking groups and the Games have collectively taken a new approach that seeks to change the food culture and consumption patterns of their people. Government policies promoted a new and more sustainable Nordic cuisine to international fame but others also played their part including world renowned chefs and the private sector. Through public-private partnerships, product innovations and reformulation these new ideas are being incorporated in everyday life in the Nordic countries. What does it mean? The Senior Adviser on Food to the Nordic Council of Ministers, described how food had changed. If you visited a friend in the Nordic ten years ago you would likely be given fresh, seasonal, locally sourced produce.

So we have emerged from the general election campaign and now we are into the start of the Brexit process. A changing political landscape and lots of uncertainty means that it is important not to slip down the agenda. But more than ever, we must continue to keep our eyes on the prize. The prize of improved health if we introduce diet and weight management. The prize of a reduction in lifestyle cancers by tackling unhealthy weight.

To tackle obesity requires more than one or two individual measures. We require a whole package of systemic change. Over the last few months Obesity Action Scotland has been gathering learning from around the world to consider what other things have been done successfully in other countries. In Amsterdam they have seen a reduction in levels of childhood overweight and obesity across all the socio-economic groups. This is the first area in the world to show such positive progress. What is the key to their success? Significant investment, political buy-in, collective responsibility, clear targets and focused, geographically targeted interventions. What stuck us most though was the pride and ownership from everyone we met in the programme. From the school head teacher to the local fishmonger there was a level of understanding and dedication to do something and make a difference. Heading slightly further north, over the past 10 years and spend hundreds of hours on sofas staring at screens resulting in 28% of children in Scotland being heavier than they should be.

**Keep your eyes on the prize of improved health**

Lorraine Tulloch, Programme Lead, Obesity Action Scotland

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Aberdeen’s award winning Golden Games is leading the way in the integration of physical activity and preventative and rehabilitative health management. Developed in 2011, the free physical activity festival for older adults this year saw over 500 participants take part in a range of exercise classes and activities. The innovative programme is delivered by the Active Aberdeen Partnership, a body comprising 10 leading organisations committed to making Aberdeen the most active city in Scotland by 2020. The Golden Games is a positive response to an ageing population, which typically experiences more complex care needs including cancer and dementia. Studies have consistently demonstrated the positive impact of a healthy, active lifestyle on the physical and mental wellbeing of people across all ages. As the heart of this initiative is a focus on what people can do, rather than what they can’t.

The prizes of a reduction in lifestyle cancers by tackling unhealthy weight. The Scottish Government has committed to a Diet and Obesity Strategy in 2017 and we are seeing the start of a change in our food environment. An environment that currently uses price promotions, marketing and the barrier of a bigger portion size to push us towards unhealthy food choices. Tackling these issues are important and urgent first steps in changing the balance of food that goes in our shopping baskets. Aberdeen and recognise the multitude of benefits that physical activity can bring to someone’s physical health, mental health and overall wellbeing. The Golden Games also tackle the stigma of ageing. This is important as it helps to give older people a positive image of themselves, helping to build confidence and encourage others to take part. The Golden Games really is a great initiative. It provides a great introduction to activities and venues that you may never have tried before and everyone is extremely friendly. I’d encourage anyone who has never taken part before to come along to the Golden Games next year” said one participant.

The Senior Adviser on Food to the Nordic Council of Ministers, described how food had changed. If you visited a friend in the Nordic ten years ago you would likely be given fresh, seasonal, locally sourced produce. What can we learn from this approach? That the regulation we need to improve the food environment must be accompanied with a positive and engaging approach to promote wholesome healthy Scottish produce such as vegetables, seafood and fish. There is lots of work to do to tackle the challenge we face, with 2 in every 3 adults being overweight or obese, and that work needs to start now. The Scottish Government’s commitment to a new diet and obesity strategy must be kept. The health of our nation is at stake.

**Reducing from childhood to later life**

Anna Gryka, Obesity action Scotland

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Editor: Ageing is associated with an increased cancer risk. Around 60% of people who have cancer are 65 or older. So are 60% of cancer survivors. The benefits of the original cancers in early life, especially in relation to nutrition and growth rates in infancy and childhood. A poor lifestyle in midlife does not mean that lifestyle in adulthood is too late to reduce risk of cancer (or heart disease) but rather that it does present another opportunity to stack the odds against cancer occurrence. So for the sake of our children and grandchildren optimising nutrition, physical activity and avoiding excess weight is the best start in life for many healthy years ahead. The factors that influence childhood obesity also influence adult obesity so any policy action that can impact on people across the lifespan stands to achieve most health gain.

Our environment does not promote healthy weight. Children are bombarded by advertising of junk food and sugary drinks. We need to challenge and focus, geographically targeted efforts. This means, for example, changing the balance of food that goes in our shopping baskets. Aberdeen and recognise the multitude of benefits that physical activity can bring to someone’s physical health, mental health and overall wellbeing. The Golden Games also tackle the stigma of ageing. This is important as it helps to give older people a positive image of themselves, helping to build confidence and encourage others to take part. The Golden Games really is a great initiative. It provides a great introduction to activities and venues that you may never have tried before and everyone is extremely friendly. I’d encourage anyone who has never taken part before to come along to the Golden Games next year.” said one participant.

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Recently, the WHO Commission on Ending Childhood Obesity (ECHO) developed a set of recommendations including:

1. Provide guidance, as support for, healthy diet, sleep and physical activity in early childhood.
2. Implement comprehensive programmes that promote healthy school environments, health and nutrition literacy and physical activity among school-age children and adolescents.
3. Provide family-based, multicomponent, lifestyle weight management services for children and young people who are obese.

Strategies most likely to prevent childhood obesity require government leadership, including legislation to create a healthier environment, and the delivery of targeted programmes.

The UK Government’s Plan for Action on Childhood Obesity challenged the food and drinks industry to reduce 20% of sugar from products that children eat most often by 2020, including a 5% reduction in portion sizes and regulation of the promotion of unhealthy foods and drinks. On the 1st of July, the Committee on Advertising Practice introduced new rules banning adverts for food and drinks high in fat, salt or sugar (HFSS) in children’s non- broadcast media. The changes mean that media such as print, cinema, online and social media that have now been brought into line with television. It is a step in the right direction.

Changing the environment for our children, changes it for everyone - excellent news because what we ultimately want is healthy lives well.”

So are 60% of cancer survivors. But the benefits of the original cancers in early life, especially in relation to nutrition and growth rates in infancy and childhood. A poor lifestyle in midlife does not mean that lifestyle in adulthood is too late to reduce risk of cancer (or heart disease) but rather that it does present another opportunity to stack the odds against cancer occurrence. So for the sake of our children and grandchildren optimising nutrition, physical activity and avoiding excess weight is the best start in life for many healthy years ahead. The factors that influence childhood obesity also influence adult obesity so any policy action that can impact on people across the lifespan stands to achieve most health gain.

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Improving the reach of Scotland's cancer screening programmes
Nuala Healy, Organisational Lead - Screening and Immunisation, NHS Health Scotland

There is increasing recognition of the inequalities which exist in cancer screening uptake (bowel, breast and cervical), with lower participation in the most deprived areas of Scotland. The Scottish Cancer Plan: Beating Cancer: Ambition and Actions sets out a clear commitment to reduce inequalities in cancer screening and has committed £5 million to initiatives that could help address barriers and issues for those less likely to engage. Recently, NHS Health Scotland also hosted a learning event for NHS Boards on inequalities in screening uptake. This event, chaired by Professor Bob Steele, UK National Screening Committee chair, showcased national and local approaches to reducing inequalities and considered the current evidence base of approaches that are most likely to have impact on this. To download the conference report visit: http://www.healthscotland.scot/publications/screening-and-inequalities/event-brochure

An inequalities sensitive approach is central to the development of all cancer screening information produced by NHS Health Scotland. With the introduction of an easier bowel screening test this November, NHS Health Scotland is developing information materials to support it in a range of formats that are accurate, accessible and easy to understand. NHS Health Scotland has also produced a cervical screening too that supports the role of primary care in optimising uptake of smear tests – please visit: http://www.healthscotland.com/topics/health-topics/screening/cervicaltoolkit1.aspx

The Global Cancer Burden: Necessity is the Mother of Prevention

On Monday 10th July, Dr Christopher P. Wild, Director of the International Agency for Research on Cancer (IARC), Lyon, France, delivered the SCF/Cruden Foundation lecture at the Royal Society, Edinburgh. Entitled 'The Global Cancer Burden: Necessity is the Mother of Prevention', Dr Wild argued that an adjustment in attitudes and priorities towards cancer prevention is required.

‘No country can afford to treat its way out of the cancer problem. A balanced, integrated approach to prevention, early detection and treatment is required.’

Highlighting the European Code Against Cancer, (https://cancercode-europe.org/), Dr Wild suggested that it is important to adapt prevention strategies to the national or regional situation and that these strategies may be hard to implement, require persistent personal behaviour changes and be hard to measure the success of due to the length of time they may take to bear fruit. Governments are often more keen to focus on short term goals so may be difficult to persuade of the benefits in cancer prevention. With time, vision and leadership however, prevention strategies can be implemented and form part of an integrated approach along with early detection, and treatment, including palliative care.


Have you seen this campaign?

Every day a Dane dies of skin cancer or melanoma so earlier this year this campaign reached out to friends of Danes in holiday destinations across the world and asked them to help a Dane. If you saw a Dane in the sun without taking sufficient precaution in the sun? https://www.helpedane.com

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World Cancer Research Fund International/American Institute for Cancer Research Research.

Continuous Update Project Report: Diet, Nutrition, Physical Activity and Breast Cancer, 2017

http://www.wcrf.org/int/research-we-fund/continuous-update-project-findings/reports/breast-cancer

Breast cancer is the most common cancer in women in the UK and worldwide. Breast cancer is a group of diseases with different aetiologies and modifiable risk factors and so the evidence is presented according to whether the breast cancer diagnosis is pre or postmenopausal and may differ according to its hormone receptor status, e.g. oestrogen receptor ER-ve or ER+ve/ progesterone receptor PR-ve or +ve. Breast cancer risk doubles each decade until the menopause, after which it decreases slowly but there is strong evidence that

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Community gardens

Being active can make a real difference to our health. The World Cancer Research Fund has found strong evidence that we could prevent about one in eight cases of bowel and breast cancers, and one in ten cases of womb cancer in the UK by being active for 30 minutes a day at least five times a week. All over Scotland there are community gardens bursting with home grown fruit and vegetables, laden with blooms and providing peaceful havens for members of the public to catch a bit of quiet time in. Volunteering in these gardens is a great way to keep physically active and eat well while being part of a social network. No experience is needed – you just learn from those around you – although those with expertise in all sorts of fields are welcomed (marketing, events, finance, design, IT etc etc) to help grow the project. And for any group starting out FFCGG Scotland (an umbrella group supporting and representing City Farms and Community Gardens) are piloting a mentoring scheme funded by the Big Lottery to provide expertise where needed. Strategies can be implemented and form part of an integrated approach along with early detection, and treatment, including palliative care.


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Cancer diagnosis as an opportunity for increasing uptake of smoking cessation services among families: an exploratory study of patients, family members and health professionals

Wells M, Harris F, Aitchison P et al.

Why is this paper important?
The time after a diagnosis of cancer may be a teachable moment for smoking cessation, especially if focused on the person’s future health. In-depth interviews were conducted with 29 patients with smoking related cancers and 14 family members who were current or recent ex-smokers and 24 health professionals from cancer care, primary care and smoking cessation services. Most who had managed to give up smoking did so or by laying the foundations for larger definitive studies that can be supported by other UK health research funders. To support this, CSO contributes financially to the National Institute of Health Research (NIHR) to allow researchers in Scotland to access the four major NIHR core programmes (CVD, HSSDR, PHR and HTA), which have no funding threshold and therefore can fund large definitive studies. The two CSO programmes are:

1. Translational clinical studies research programme - for research aimed at improving treatments and / or diagnostic approaches for conditions of clinical importance to the population of Scotland.
2. Health improvement, protection and services research programme - for research aimed at improving or protecting population health, improving the quality, safety and / or effectiveness of healthcare in Scotland.

For more information go to: http://www.cso.scot.nhs.uk/funding-2/

TreatWELL – a feasibility study to assess the delivery of a lifestyle intervention for colorectal cancer patients undergoing potentially curative treatment

Anderson AS, Steele RJC, O’Carroll RE et al.

Why is this paper important?
Colorectal cancer (CRC) survival has improved, but in Scotland, survivors still have notable excess mortality within the first year post diagnosis compared to other European countries. In addition, survivors have high rates of comorbidities. Evidence suggests that lifestyle improvements have considerable potential to impact on morbidity and recurrence. This study aimed to assess the feasibility of delivering an intervention programme (TreatWELL) for CRC patients undergoing potentially curative treatments. Delivered in 3 face to face sessions (plus phone calls) by lifestyle counsellors over three phases (pre-habilitation, surgical recovery and post therapy recovery). Feasibility outcomes included recruitment rates, phase length, implementation ease, feasibility of study measurements, patient acceptability, adherence and retention. Of eligible participants, 26% were recruited and 18% completed the study. Acceptability of the intervention was rated highly. Although programme adherence was strong or they did not link smoking with their diagnosis or treatment outcomes. Patients felt they would be more likely to use cessation services if they were located within the hospital. Although without the support of cessation services which they viewed as irrelevant or time consuming. Those who continued to smoke did so due to the emotional stress of their cancer diagnosis and treatment, they did not want to be pressurised to quit, they felt their addiction was stronger or they did not link smoking with their diagnosis or treatment outcomes. Patients felt they would be more likely to use cessation services if they were located within the hospital. Although patients and family members expected their smoking to be broached, health professionals were often reluctant to do so in case they appeared judgmental or made patients feel guilty. Health professionals were also not up to date with cessation services.

Bottom line
Staff training, support and tailored materials are required so that the guidance can be implemented within cancer care.

Cancer incidence in Scotland

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The Scottish Cancer Registry has collected data on cancer since 1958. The data are used for a wide variety of purposes including research and planning of cancer services. The data are also used in the annual publication of cancer incidence statistics for Scotland. This article summarises the key points of the April 2017 publication, which includes data on incidence to 2015.

In 2015, 31,467 people were diagnosed with cancer (16,266 females and 15,201 males). This was an increase from 27,494 people ten years previously. Much of this increase can be explained by the ageing population of Scotland and the fact that most major types of cancer are more common in older people.

The age-adjusted incidence rate for cancer allows you to make a fairer comparison over time. The rate increased by 5% over the last ten years for females and decreased by 4% for males.

However, when looking at different types of cancer, there was considerable variation in incidence trends. For instance, over the last ten years, the incidence rate for malignant melanoma of the skin increased by 33% in males and 10% in females. In contrast, the rate for ovarian cancer decreased by 13% over the same period.

Lung cancer was the most common type of cancer diagnosed in Scotland, with 4,997 new cases in 2015. Other common cancers were breast cancer (4,762 cases), colorectal cancer (3,671 cases) and prostate cancer (3,091 cases). These four types of cancer accounted for over 50% of new cancers in Scotland in 2015.

It is also important to bear in mind that the estimate is based on existing trends for the whole population. For individuals, the risk of developing cancer will be affected by lifestyle, genetics and environmental factors.

Further Information
The publication is available on the ISD website: http://www.isdscotland.org/Health-Topics/Cancer/Publications.

Acknowledgement
Our publication uses data shared by patients and collected by the NHS as part of their care and support.
Cancer and lifestyle – research round up

Mediterranean diet adherence and risk of postmenopausal breast cancer: results of a cohort study and meta-analysis

van den Brandt PA, Schulpen M (2017) Cancer Epidemiology Vol 140, Issue 10, pages 2220–2231

The Mediterranean Diet (MD), high in plant proteins, whole grains, fish and monounsaturated fat; moderate alcohol intake; and low in refined grains, red meat and sweets is known to protect against cardiovascular disease. This study looked at the relationship between eating a MD and postmenopausal breast cancer risk. The Netherlands Cohort Study (n=62,573 women aged 55–69 years) provided information on dietary and lifestyle habits in 1986. A MD score measured adherence to the MD diet. Twenty years later, through record linkage, 2,321 participants with complete data on diet and potential confounders who had a breast cancer diagnosed were compared to 1,665 participants without breast cancer. MD adherence showed a nonsignificant weak protection against ER positive (ER+) or total breast cancer risk but a statistically significant protective association for ER negative (ER−) breast cancer (HR 0.60, 95% Confidence Interval, 0.39–0.93) for high versus low MD adherence (p trend = 0.032).

This important finding suggests that 32.4% of ER− breast cancer, and 2.3% of total and ER+ breast cancer could be avoided if the population strongly adhered to a Mediterranean Diet.

How to Manage the Obese Patient With Cancer


Obesity is common in cancer patients and associated with 13 cancer types. Obesity is also socially patterned and more common in women from disadvantaged areas. This study involved observational data and secondary analyses of trial data on how obesity affects the treatment offered to patients and levels of treatment-related toxicity. There is a commonly held opinion that obesity is associated with greater toxicity from cytotoxic chemotherapy and according dosages are often reduced. This review found no evidence of greater toxicity and so recommends that dosages are calculated as per the general population. For those requiring surgery for malignancy, there is evidence that a raised BMI is associated with increased perioperative mortality and increased rates of infection after surgery. This finding however does not persist for those undergoing surgery for benign indications.

The review concludes that current evidence is inconsistent and that more research is required before application to guideline formation.

The association of dietary quality with colorectal cancer among normal weight, overweight and obese men and women: a prospective longitudinal study in the USA

Torres Stone RA et al. (2017) BMJ Open Volume 7, Issue 6
http://bmjopen.bmj.com/content/7/6/e015619

This is the first study to examine the potential benefits of a healthy diet in reducing colorectal cancer risk among men and women who are normal weight, overweight and obese. Data were obtained on 398,458 participants who were 50–71 years old in 1995–1996 and were followed up until 2006. Dietary quality was assessed according to adherence to a Mediterranean Diet, the Healthy Eating Index-2010 and the Dietary Approaches to Stop Hypertension score, and was stratified by BMI category. Over this period there were 6515 new diagnoses of CRC (1953 among the normal weight, 2924 among the overweight and 1638 among the obese; 4483 among men and 2032 among women). A strong dose–response pattern was found for normal weight and overweight men. An increasing dietary quality was associated with decreasing risk of CRC. This pattern was also observed for obese men but less consistently across the three measures of dietary quality. The findings were of smaller magnitude and less consistent for women but still suggesting associations of similar direction.

This paper concluded that a better diet was associated with a reduced risk of incident CRC up to 10 years later for men regardless of baseline weight category.