ed immunity and humoral antibody response (Alpert, 2017)

Dose of > 200 mg/d supports reduction in risk, everity and duration of upper and lower resp

Drink

Elodie Cameron



Get a taste for aperitivo and bring Italy to your lockdown

love the concept of the Italian-style aperitivo, a glass of something chilled and a few well-chosen nibbles and good company. It may not sound too different to a French aperitif or Spanish tapas but the 'Aperitivo' is a unique event in itself that is as much about the food as the drink, not only in the chicest bars of Venice or Milan where the custom originates, but across Italy. Each bar creates its own experience – some have elevated the whole event into an artform with elaborately designed

morsels to accompany the drinks I have to say that I've really been enjoying my own little aperitivos these last few weeks, it has been one of those little moments of pleasure during lockdown. Preparing a drink and a few choice nibbles (cicchetti as they are known in Venice) can be very simple, slices of cheese and Parma ham, a bowl of olives, a handful of roasted cashews or become an elaborate affair depending on how much time you have (there are plenty of ideas online). These have been moments to feel a bit more stavcation than house arrest, time to enjoy a calm moment, a few early evening rays when the stresses of working from home. home-schooling, and missing family and friends is eased, if only for short while. It has also slotted

after-work Zoom catchups. Aperitivo comes from the word to open and relates to opening the appetite and getting the digestive juices flowing before a meal. However, it clearly translates to images of opening up a conversation with friend or opening the door, even if that is only metaphoric right now!

in nicely to coincide with those

And what to drink? Many of the drinks are focussed around vermouths and citrus or botanical infused liqueurs or even cocktails. The idea being that the various herbs and spices in these drinks that give a slightly bitter, and in some examples an almost medicinal, character to the drink

were thought to aid digestion as well as be a pleasant and food friendly

drink. As you might imagine Antonio Benedetto Carpano, one of the first producers of vermouth in Turin in the late 1700s (although

there are examples going back as far China in 1250BC) was a great marketer of the aperitivo – some say he even invented it.

These vermouths are generally made from white wine and an infusion of up to 30 botanicals (herbs and spices) and fruit flavours fortified with a spirit and sweetened, depending on the style. Vermouths can vary in style from dry to sweet, and white to red depending on the flavours blended, where generally the darker the colour, the more intense and bitter the flavours

But how to drink it? Neat over ice to really enjoy the herbaceous or fruity flavours of a sweet, red Vermouth, or experiment with different gins to whip up a Negroni or Martini (although you may want to wait until later in the evening for that). A rosé Vermouth is great as a spritzer with tonic and/or soda water on a warm evening, and of course the everpopular Aperol Spritz with Prosecco has become a summer classic with its distinctive orange hue. Whatever your choice, don't forget a twist of orange or lemon.

I like to go 50:50 with tonic for a Vermouth & tonic, some even believe that V&T is the new G&T I will let you be the judge of that

Vermouths to try (All available from masterofmalt.com)

Blended with red and white Grand Cru Bordeaux wines. Peruvian quinine and a combination of sweet and bitter orange peel and fruit liqueurs. Think rose petals and blossom with a dry, citrus tang, £16.45

This white vermouth is peppery and dry, which allows the herbal cedar and thyme flavours to creat a long, complex flavour - perfect for a Dry Martini with a lighter, more citrus gin or just over ice

with a slice of lemon, £12.95

Cocchi Storico

First produced in 1891 this is a classic red vermouth with rich flavours of raisins, bitter peel orange zest and ripe grape with rich spices, wood and fruit. Perfect for Negroni, or a V&T.

Shane McAuliffe and James Bradfield, writing on behalf of the NNEdPro Nutrition and Covid-19 Taskforce, based in Cambridge, help us to separate fact from fiction.

iven the considerable interest in the role of nutrition throughout the Covid-19 pandemic, we recently we wrote a piece in the Cambridge Independent about how to eat well and support your health during such uncertain

It seems as though the discussion around what to do, and what not to do has been never-ending, with reports emerging almost daily suggesting new ways to improve health and potentially combat

susceptibility to infection or its While this nush for knowledge has fuelled important

scientific

research

and discussion, it has also inevitably led to debate about what is fact, what is fiction and what makes up the grey areas between them. In reality, Covid-19 is a new disease and so our

understanding of its interactions, including those with nutrition, are continually New evidence that can inform

policy and practice is being generated, including in our flagship journal BMJ Nutrition, Prevention & Health. In it, we have established a dedicated Covid-19 special collection nutrition. to help gather emerging research on the relationship between the virus and nutrition, in order to add to what we currently know.

In this article, we will outline what this collection has uncovered about the relationship between nutrition and Covid-19 so far.

How does my diet and nutrition effect my immune system?

It is generally well understood that poor nutrition, due to either insufficient dietary intake of key nutrients or a poor overall diet quality, can compromise immune function and increase the risk of

Recent interest has focussed on vitamins and minerals, commonly referred to as micronutrients, which are required in small quantities to ensure health and play a key role in supporting the immune system

carrying out surveillance, but this activity increases if an individual acquires an infection.

This extra work requires additional energy sources, which must come from the diet. Deficiencies, or short supply of these key nutrients, have the potential to impact the way the immune system functions and responds to the threat of infection This can make us more vulnerable to infectious diseases.

There are many micronutrients that are accepted to have an important role in maintaining our immune system.

These include vitamins A. B6, B12 C, D and folate, as well as trace elements such as zinc, iron, selenium and copper.

For most, eating from a variety of food groups will often be sufficient. to meet the nutritional requirements in the general population, and such was the advice in our previous article.

However, in some vulnerable groups diet alone may not be enough to meet individual needs and so supplementation may be required, if advised by a qualified health professional such as dietitians as well as doctors, nurses or pharmacists with training in

It is important to remember that this should not be considered as a replacement, but instead as an addition to good dietary practices.

Unfortunately, many of those at highest risk during the Covid-19 pandemic are also populations at highest risk of micronutrient deficiencies and poorer overall

A number of factors contribute to the risk, including the potential role of old age, ethnicity, obesity, vitamin D deficiency and socio-economic inequalities

As we age, our immune system does not work as well as before. Ageing can also mean we do not eat as much as we did or that we exercise less

Given the need for self-quarantine and cocooning through the Covid-19 pandemic, access to food, sunlight and exercise may have decreased

It is important, now more than ever, to ensure that the most vulnerable members of our society are supported and have access to adequate nutrition

There has rightly been a significant amount of attention given to the disproportionate effect of the virus on ethnic minority populations, with many questions yet to be answered about the basis Our immune system is constantly for the statistics.

Covid-19 and nutrition: The evidence so far



Spotlight on vitamin D

A common thread through these discussions has been the role of vitamin D. which has been open to variable interpretation in the media in recent weeks. In light of this interest. BMJ Nutrition. Prevention and Health has published two recent peer-reviewed articles on the topic. Avoiding vitamin D deficiency is important for health and so measures to prevent deficiency should always be supported.

Our primary source of vitamin D, which is a pro-hormone rather than a classical vitamin, comes from sunlight exposure, through the ability of our skin to produce it from UVB rays. Additional sources of vitamin D include dietary sources, although it is generally present in small amounts, as well moderately dosed vitamin D supplements in those who need them.

The latter is particularly important for those who are at higher risk of deficiency.

At certain times of the year, when sufficient sunlight is not available, those of us living in northern latitudes (such as the UK, Ireland and northern Europe) have poor vitamin D status. This is especially true in winter (in fact, from September to March/April) or if are confined indoors.

Advice from the government is that anyone who is self-isolating with limited access to sunlight is advised to take a vitamin D supplement (400IU/day or 10mcg for the UK).

Consequently, interest in the role of high-dose supplements and their potential to prevent or treat Covid-19 supplemental vitamin D intake is has risen. Currently, there is not

enough scientific evidence to support these high doses of

vitamin D in the general population and - due to concerns around potential harm from excessive amounts - the use of high-dose supplements is not advised routinely. However, cases of severe

deficiency may require treatment with higher doses under appropriate clinical supervision. At times there has been

confusion between general population-level recommendations around interventions that are safe and effective for the majority of the population versus individuallevel recommendations which need to be specific to the needs of individuals as determined by clinical testing and supervised treatment.

The amount of sunlight required to generate enough vitamin D differs for different skin types. For this reason. darker skin tone tends to be associated with much lower vitamin D levels than lighter skin tones, particularly at higher latitudes and during the months of winter and early spring.

For the UK, this ranges from 10 minutes to 25 minutes of exposure at around lunchtime, in season-appropriate clothing. between different skin types

For those of skin type V and VI (brown or black skin) the exposure requirements in UK sunlight are more challenging to achieve than for white-skinned people and this means that especially important.

What does it mean?

So what does all of this mean? Put simply, good nutrition creates an internal environment that helps the immune system to respond appropriately to the challenge of infection.

On the other hand, poor nutrition can lead to an ill-equipped immune system which cannot respond as well.

In addition, we know that correcting one or more nutrient deficiencies, when these exist, can improve the way our immun system responds and increases the chance of a good outcome.

Some members of our population are more susceptible to nutrient deficiencies, with many of these groups appearing to be at highest risk during the Covid-19 pandemic.

For these reasons, promoting good dietary practices at this time will be extremely important, while bearing in mind that individual requirements will be varied and there are some who will require extra attention.

NNEdPro Global Centre for Nutrition and Health is an award winning think-tank with more than a decade of experience in nutrition education, research and innovation. Based at St John's Innovation Centre in Cambridge. it has regional networks across six continents. A not-for-profit social enterprise, NNEdPro develops educational models to improve nutrition in health systems, and conducts training courses and research studies.

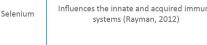
ratory tract infections. Requirements for vita-min C increase during infection (Carr & Magini citrus fruits, mango, strawberries Daily supplementation of vitamin D reduces the risk of upper respiratory tract infections (BMJ 2017) meat. *supplement of 10ug is required as the average British diet amounts to only 2-5ug of itamin E is a potent antioxidant and has a (Moriguchi & Muraga, 2000) ccoli), fortified foods (breakfast cereals, fruit juices, margarines, spreads **1 2 9** nigration but does not alter acquired immun (Riboflavir Beef liver/tenderloin fortified cereals, oats s (Verdrengh & Tarkowski. 2005) plain fat free yoghurt, milk, mushrooms, a monds, cheese min B6 deficiency impairs lymphocyte mate ition and growth and impairs antibody produc on. T-cell function, and reduction in the size of ish (salmon, tuna) fortified cereals, potatoes Responsible for cell division and cell growth Seafood (clams), meat (beef liver), oily fish tion (Alpert, 2017) ut, salmon), fish (tuna, haddock), dairy (milk ***** • 3 lays an important role in cell division, and ce production in blood forming organs and bone marrow (Alpert, 2017) ins and legumes, oranges, whole grain, mea (poultry, pork, liver), shellfish proliferation and maturation, specifically lymocytes, associated with generating respo to infection (Alpert, 2017)











nose deficienct in zinc, particularly children

re prone to increased diarrheal and respirator

morbidity (Gammoh & Rink, 2017)

release, and activity of cells of the imm





egg, cottage cheese

kin seeds









