videos were analyzed. Videos in other languages, duplicate videos, and live videos were excluded. A total of 218 videos were reviewed. Video demographics including number of views, likes, and dislikes were recorded. The upload source of each video was classified as news channel, health professionals, health centers, TV channels, government organisations, educational organisations and independent individual channels based on the information given at ‘about’ section of their YouTube profile. The transparency, utility, reliability and accuracy of video content was assessed using the Journal of the American Medical Association benchmark criteria (JAMA score). Quality of the videos were assessed with Global Quality Score (GQS).

Results
According to the video source, 30.7% of the videos were shared by health professionals including doctors, dietitians, and nurses, whereas 18.7% of them shared by independent users. Educational organisations only shared 5% of the videos. Videos shared by health centers had the highest JAMA score (2.2 ± 0.8) followed by government organisations (2.1 ± 0.7). The independent users and TV channels’ videos had the lowest JAMA score (1.7 ± 0.7). GQS was the highest for government organisations’ videos (3.5 ± 0.1) whereas it was lowest for TV channels’ videos (2.8 ± 0.1). There was a significant positive correlation between JAMA score and GQS of the videos (r=0.201, p=0.05). According to the assessment of the relationship between length, number of views, likes, dislikes, view and like ratio, there was a correlation between the length of the video, like ratio and GQS (r=0.193, p=0.004 and r=0.140, p=0.039 respectively). There were not any significant associations between quantitative variables and JAMA score.

Conclusion
Health professionals, educational and government organisations need to more engage in the spread of nutrition-related COVID-19 information to internet platforms such as YouTube. This will be an effective and immediately implementable public health strategy to effectively spread the right information.

### Abstract 4 Table 1

<table>
<thead>
<tr>
<th>Author</th>
<th>Outcome</th>
<th>Vitamin D Dose</th>
<th>Vitamin D status (number of studies/participants)</th>
<th>Age (years)</th>
<th>Follow-up (years)</th>
<th>Relative risk (CI 95%)</th>
<th>F-Value</th>
<th>Key findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weaver et al. 2016</td>
<td>Fracture risk</td>
<td>400-800IU/day 500-1200mg/day calcium</td>
<td>Not reported</td>
<td>≥65</td>
<td>1-7</td>
<td>0.85 (0.73-0.98)</td>
<td>0.06</td>
<td>15% reduction in risk of total fracture.</td>
</tr>
<tr>
<td>Tang et al. 2007</td>
<td>Fracture risk</td>
<td>800IU/day and 1200mg calcium</td>
<td>(Low 10146 Normal 39167)</td>
<td>50-85</td>
<td>4.5*</td>
<td>0.88 (0.83-0.95)</td>
<td>0.004</td>
<td>Calcium with Vitamin D associated with a 12% reduction in all fractures.</td>
</tr>
<tr>
<td>Keum et al. 2019**</td>
<td>Cancer mortality</td>
<td>400-2000IU/day 20,000IU/week 500,000IU/Year</td>
<td>38-83 nmol/L</td>
<td>58-77</td>
<td>3-10</td>
<td>0.87 (0.79-0.96)</td>
<td>0.005</td>
<td>Greater risk reduction with low serum 25(OH)D concentration compared to normal.</td>
</tr>
<tr>
<td>Han et al. 2019</td>
<td>Cancer mortality</td>
<td>400IU/day- 500,000IU/year</td>
<td>Not reported</td>
<td>44-75</td>
<td>4.3-28</td>
<td>0.81 (0.71-0.93)</td>
<td>0.012</td>
<td>13% reduction in cancer mortality and 7% reduction in cancer incidence over 3-10 year period.</td>
</tr>
<tr>
<td>Bjelakovic et al. 2014**</td>
<td>All-cause mortality</td>
<td>300IU/day- 500,000IU/year</td>
<td>&lt;26ng/ml (26)</td>
<td>18-107</td>
<td>0.008-7</td>
<td>0.94 (0.91-0.98)</td>
<td>0.002</td>
<td>Dose-response analysis suggests 7% reduction in cancer risk and 2% reduction in cancer mortality with 20nmol/L increment of 25(OH)D.</td>
</tr>
<tr>
<td>Rejnmark et al. 2012</td>
<td>All-cause mortality</td>
<td>300IU/day- 500,000IU/year</td>
<td>Not reported</td>
<td>53-98</td>
<td>3</td>
<td>0.91 (0.84-0.98)</td>
<td>0.01</td>
<td>7% decrease in mortality.</td>
</tr>
</tbody>
</table>

**Background** Vitamin D deficiency, defined as a circulating 25-hydroxyvitamin D [25(OH)D] concentration <25nmol/L, is a global health issue associated with fractures, all-cause mortality and cancer mortality. Optimizing vitamin D status through supplementation, therefore may improve health-related quality of life, whilst simultaneously reducing healthcare costs associated with these conditions.

**Objectives** This clinical review investigates the effects of vitamin D3 supplementation on these outcomes in adults.

**Methods** Literature review was undertaken between 1st February – 31st March, 2021. Search terms included ‘vitamin D supplementation’, ‘vitamin D status’ and ‘risk of fracture’, ‘cancer mortality’ and ‘all-cause mortality’.

**Results** A total of 11 systematic reviews and meta-analyses in populations aged ≥50 years of age were reviewed. Six reviews demonstrated a significant reduction in the risk of fracture, cancer mortality, and all-cause mortality following vitamin D supplementation (table 1). Of the five reviews showing no effect of supplementation, all were conducted in fracture risk populations. Three meta-analyses included studies with participants with an inadequate baseline vitamin D status [25(OH)D < 50nmol/L]; of these, one review, which investigated fracture risk, showed no benefit of supplementation. Potential beneficial effects of supplementation may have been masked in...
some studies through the inclusion of vitamin D replete populations.

Conclusion While there is some evidence of a beneficial effect of vitamin D supplementation in reducing fracture risk, all-cause mortality and cancer morality, further research is required. Conflicting findings are likely due to the heterogeneity in study design with the inclusion of young populations, short follow-up times, and vitamin D replete participants at baseline potentially concealing the beneficial effects of supplementation. Further clinical research in vitamin D insufficient/deficient populations ≥50 years of age within the UK and Ireland is warranted, with the results informing the clinical effectiveness and cost-effectiveness of vitamin D3 supplementation at the population level.

CROSS-CULTURAL VALIDITY OF THE INTUITIVE EATING SCALE-2. PSYCHOMETRIC EVALUATION IN A SAMPLE OF THE GENERAL POPULATION OF CYPRUS

1Evaggelia Basdani, 2Maria Kyrianioudou, 3Stavri Chryostomou, 4Konstantinos Giannakou*. 1Department of Life Sciences, European University Cyprus, Engomi, Cyprus; 2Department of Health Sciences, European University Cyprus, Engomi, Cyprus

Background Intuitive Eating is an adaptive dietary behavior characterized by a reliance on internal hunger and satiety cues instead of situational and emotional cues. The construct of intuitive eating is most often measured using the 23-item Intuitive Eating Scale-2 (IES-2).

Objectives To develop the Greek version of the IES-2 questionnaire and to examine its psychometric properties with data collected from 379 participants aged 18–74 years.

Methods Forward translations to Greek and backward translation to English were performed. The finalized translated version was administered to a sample of 379 adult, Greek speaking participants in Cyprus for psychometric validation, which included assessment of internal consistency, construct, and concurrent validity. Explanatory Factor Analysis (EFA) was applied to better understand the underlying factor structure of the 23 items in IES-2. Internal consistency was assessed by Cronbach’s alpha test in terms of the overall and sub-scales. The concurrent validity was assessed by evaluating the correlation among the IES-2 and the Eating Attitudes Test – 26 item (EAT-26) questionnaire.

Results A total of 379 participants completed the IES-2, EAT-26 questionnaire, and a demographic questionnaire. The median age of the participants was 31 (Q1=25, Q3=42) years old. About 49.7% of the participants were from the capital of Cyprus, Nicosia, 48.8% were unmarried, 92.9% had completed a higher education and about 40% were categorized as having a medium monthly average salary. Among the 379 participants of the study, 50.1% had normal Body Mass Index (BMI) category, while 24% and 21.4% were categorized as overweight or obese, respectively. EFA gave a three-factor solution accounting for 54.41% of variance. Cronbach’s alpha as a measure of internal consistency was 0.87 for the IES-2 total score, as well as 0.90, 0.84, and 0.70 for the IES-2 subscale scores. The revised IES-2 total score was significantly correlated with EAT-26 total score (rs=-0.46, p<0.01). The factor loadings on more than one factor were excluded from the next analysis. The results of confirmatory factor analysis indicated that the factor structure on both scales had adequate fit following the elimination of items and addition of covariance.

Conclusion Our findings support the notion that intuitive eating is a viable concept and the IES a useful tool for assessing adult intuitive eating behaviors in empirical and epidemiological studies in the general Greek-Cypriot population.

COMPARISON OF NUTRITIONAL VALUES AND PRICES OF LOCALLY GROWN AND IMPORTED LEGUMES AND SEEDS

1Guler Ertus, 2Meryem Satilmis, 3Elif Inan-Eroglu*, 1Ankara Medipol University, Ankara, Turkey; 2University of Sydney, Sydney, Australia

Background The increasing health and environmental concerns related to food production and consumption within the process of food globalization have emerged the sustainable diet concept.

Objectives This study aimed to compare the nutritional value and price between the locally grown and imported legumes and seeds.

Methods We searched 2 chain markets of Turkey and online stores of the food brands and included 15 legumes and seeds including locally grown (chickpeas, cannellini bean, green lentils and red lentils) and imported foods (red beans, black beans, quinoa, black, red and white, buckwheat, mung beans, teff seeds, amaranth, chia seed and flaxseed). Nutritional value (energy, protein, carbohydrate, fat, saturated fat, fiber and sodium) of the food per 100 gram was analyzed. We also compared the price of the foods.

Results Among the imported foods, flaxseed has the highest energy (534 kcal) and fat (42 g) content and the lowest carbohydrate content (29 g). Chickpeas have the highest energy (334 kcal) and fat (5.3 g) content whereas green beans has the highest protein content (923 g) in the locally grown foods group. Imported mung beans and locally grown cannellini beans have similar nutritional value. For instance, both mung bean and the cannellini beans have the same amount of energy content (281 kcal). Protein values were also similar (22.2 g for mung beans and 21.8 g for cannellini beans). The most expensive food was the imported quinoa (6.5 Turkish liras per 100 g) and the cheapest food was the locally grown bulgur (1.5 Turkish liras per 100 g).

Conclusion We showed that the nutritional value of locally grown foods and imported foods are similar. However, the price difference between these foods is significantly high. While access to locally grown legumes and seeds is easy and slightly cheaper, consumption of imported foods has been increasing due to different factors that push people to consume these foods such as the perception of health value and advertisements of these foods. It is also important to emphasize that uses of the locally grown foods and imported foods are different from each other. Locally grown foods are generally used in traditional Turkish cuisine, whereas imported foods are mostly put into salads to increase the nutritional value. In parallel with increasing use of the imported foods as a part of healthy balanced diet, Turkey has started to grow its own crops such as buckwheat and amaranth in the recent years. This will not only make access easier to these foods but will also provide sustainability in the diet.