Is it Necessary to Dispense with Spices to Replace Salt and Give Better Flavor to Meals in Patients with Chronic Kidney Disease (CKD)?

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Abstract
One of the strategies to control hydrosaline retention and get good control of TA is the prescription of diet without salt (although some foods contain a minimum of Na). Spices are an alternative to give better flavor of certain foods by restricting salt, although some may have a P and/or K amount to consider. We propose this alternative taking into account the number of species added.

Keywords: Chronic Kidney Disease; Spices; diet

Introduction
The establishment of an adequate food plan with restriction of protein intake according to the stage of CKD taking care of the P/Protein ratio [1,2] and the intake of excess K will be one of the basic pillars to consider in maintaining a good condition.

As the CKD increases, the tendency to Protein Energy Wasting (PEW) [3] increases and also the volume component for the control of the arterial blood pressure (ABP) should be considered since it tends to retain liquids (hyperhydration).

The restriction of salt intake is mandatory except when the etiology of CKD is an interstitial nephropathy (and there is no hydrosaline retention or hypertension (HBP), although adherence to it is very difficult to achieve in a sustained manner.

Para el control de la TA la dieta sin sal es el primer factor a controlar, evitando además la retención de líquidos [4-7].

A good alternative to salt is the use of spices to give better palatability or a more pleasant taste and thus favor an adequate intake [8,9].

The aim of this review is evaluate the possibility to use spices as salt can substitute in advanced chronic kidney disease patients.

We find that certain spices have a content of K in 100 grams of them much higher than recommended, so in principle they should be advised against.

When analyzing the most used species, we see in table 1 how the content of K in 100 grams can be high, although the amount we use is so low that its valuation can be useful.

<table>
<thead>
<tr>
<th>Species</th>
<th>Ratio P/protein</th>
<th>P(100gr)</th>
<th>P(10gr)</th>
<th>P(2gr)</th>
<th>K(100gr)</th>
<th>K(10gr)</th>
<th>K(2gr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laurel</td>
<td>14.1</td>
<td>113</td>
<td>11.3</td>
<td>2.26</td>
<td>529</td>
<td>52.9</td>
<td>10.58</td>
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<tr>
<td>Cinnamon</td>
<td>15.2</td>
<td>61</td>
<td>6.1</td>
<td>1.22</td>
<td>500</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>Pepper</td>
<td>15.7</td>
<td>173</td>
<td>17.3</td>
<td>3.46</td>
<td>1259</td>
<td>125.9</td>
<td>25.18</td>
</tr>
<tr>
<td>Frest Parsley</td>
<td>17.4</td>
<td>87</td>
<td>8.7</td>
<td>1.74</td>
<td>811</td>
<td>81.1</td>
<td>16.22</td>
</tr>
<tr>
<td>Oregano</td>
<td>18.2</td>
<td>200</td>
<td>20</td>
<td>4</td>
<td>1669</td>
<td>166.9</td>
<td>33.38</td>
</tr>
<tr>
<td>Dried Parsley</td>
<td>20.5</td>
<td>82</td>
<td>8.2</td>
<td>1.64</td>
<td>840</td>
<td>84</td>
<td>16.8</td>
</tr>
<tr>
<td>Saffron</td>
<td>21</td>
<td>252</td>
<td>25.2</td>
<td>5.04</td>
<td>1724</td>
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<tr>
<td>Paprika</td>
<td>23</td>
<td>345</td>
<td>34.5</td>
<td>6.9</td>
<td>2340</td>
<td>234</td>
<td>46.8</td>
</tr>
<tr>
<td>Curry</td>
<td>24.5</td>
<td>367</td>
<td>36.7</td>
<td>7.34</td>
<td>1170</td>
<td>117</td>
<td>23.4</td>
</tr>
<tr>
<td>Vinegar</td>
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<td>25</td>
<td>2.5</td>
<td>0.5</td>
<td>100</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>Mustard</td>
<td>28.3</td>
<td>170</td>
<td>17</td>
<td>3.4</td>
<td>165</td>
<td>16.5</td>
<td>3.3</td>
</tr>
<tr>
<td>Nutmeg</td>
<td>68.2</td>
<td>409</td>
<td>40.9</td>
<td>8.16</td>
<td>544</td>
<td>54.4</td>
<td>10.88</td>
</tr>
</tbody>
</table>

Table 1: Content in P and K of the most used species in daily practice.

Therefore, it is necessary before establishing a food plan to determine the degree of CKD that the patient presents and if it is stage 5 whether or not he is on dialysis and modality (hemodialysis or peritoneal dialysis).

With this, we will establish the amount of proteins that should be taken favoring a part of high biological value and another part

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derived from vegetables that will help control acidosis and will have less absorbable P. As a general rule in advanced chronic kidney disease the protein intake will be 0.8 gr/kg adjusted weight/day and calories intake. For calories, 30kcal/kg of adjusted weight/day are used for people over 60 years old and 35kcal/kg of adjusted weight/day for children under 60 years [10].

We must reduce the salt intake as much as possible although some foods contain salt even a diet without salt can contain 60 mg of Na.

A good option is to use some of the above mentioned spices to flavor foods, considering the amount that we administer and the P and k content in 2-10 grams is very low.

As a final reflection, consider not only the concentration of P and K but also the amount used as an additive in the alternatives to salt.

Bibliography


