

# MediaWiki:Lékařská kalkulačka/EGFR.js

**Note:** After publishing, you may have to bypass your browser's cache to see the changes.

- **Firefox / Safari:** Hold *Shift* while clicking *Reload*, or press either *Ctrl-F5* or *Ctrl-R* (*⌘-R* on a Mac)
- **Google Chrome:** Press *Ctrl-Shift-R* (*⌘-Shift-R* on a Mac)
- **Internet Explorer / Edge:** Hold *Ctrl* while clicking *Refresh*, or press *Ctrl-F5*
- **Opera:** Press *Ctrl-F5*.

```
1  /**
2  * ReplaceAll by Fagner Brack (MIT Licensed)
3  * Replaces all occurrences of a substring in a string
4  */
5  String.prototype.replaceAll = function(token, newToken, ignoreCase) {
6      var str, i = -1, token;
7      if((str = this.toString()) && typeof token === "string") {
8          token = ignoreCase === true? token.toLowerCase() : undefined;
9          while((i =
10             token !== undefined?
11             str.toLowerCase().indexOf(
12                 token,
13                 i >= 0? i + newToken.length : 0
14             ) : str.indexOf(
15                 token,
16                 i >= 0? i + newToken.length : 0
17             )
18             ) !== -1 ) {
19              str = str.substring(0, i)
20                  .concat(newToken)
21                  .concat(str.substring(i + token.length));
22          }
23      }
24      return str;
25  };
26
27  /***** Převod do html podoby *****/
28  var content = $('#lekarska_kalkulacka_EGFR-content').text();
29  $('#lekarska_kalkulacka_EGFR').html( content.replaceAll('paragraph', 'p').replaceAll('breakline',
30  'br').replaceAll('bold', 'b').replaceAll('division', 'div').replaceAll('orderedList', 'ol') );
31
32  $('#lekarska_kalkulacka_EGFR-vek-number').change( function() {
33      $('#lekarska_kalkulacka_EGFR-vek-range').val( $('#lekarska_kalkulacka_EGFR-vek-number').val() );
34  });
35  $('#lekarska_kalkulacka_EGFR-vek-range').change( function() {
36      $('#lekarska_kalkulacka_EGFR-vek-number').val( $('#lekarska_kalkulacka_EGFR-vek-range').val() );
37  });
38  $('#lekarska_kalkulacka_EGFR-serovy-kreatinin-number').change( function() {
39      $('#lekarska_kalkulacka_EGFR-serovy-kreatinin-range').val( $('#lekarska_kalkulacka_EGFR-serovy-kreatinin-number').val() );
40  });
41  $('#lekarska_kalkulacka_EGFR-serovy-kreatinin-range').change( function() {
42      $('#lekarska_kalkulacka_EGFR-serovy-kreatinin-number').val( $('#lekarska_kalkulacka_EGFR-serovy-kreatinin-range').val() );
43  });
44  $('#lekarska_kalkulacka_EGFR-serovy-cystatin-number').change( function() {
45      $('#lekarska_kalkulacka_EGFR-serovy-cystatin-range').val( $('#lekarska_kalkulacka_EGFR-serovy-cystatin-number').val() );
46  });
47  $('#lekarska_kalkulacka_EGFR-serovy-cystatin-range').change( function() {
48      $('#lekarska_kalkulacka_EGFR-serovy-cystatin-number').val( $('#lekarska_kalkulacka_EGFR-serovy-cystatin-range').val() );
49  });
50  $('#lekarska_kalkulacka_EGFR-urea-range').change( function() {
51      $('#lekarska_kalkulacka_EGFR-urea-number').val( $('#lekarska_kalkulacka_EGFR-urea-range').val() );
52  });
53  $('#lekarska_kalkulacka_EGFR-urea-number').change( function() {
54      $('#lekarska_kalkulacka_EGFR-urea-range').val( $('#lekarska_kalkulacka_EGFR-urea-number').val() );
55  });
56  $('#lekarska_kalkulacka_EGFR-albumin-range').change( function() {
57      $('#lekarska_kalkulacka_EGFR-albumin-number').val( $('#lekarska_kalkulacka_EGFR-albumin-range').val() );
58  });
59  $('#lekarska_kalkulacka_EGFR-albumin-number').change( function() {
60      $('#lekarska_kalkulacka_EGFR-albumin-range').val( $('#lekarska_kalkulacka_EGFR-albumin-number').val() );
61  });
62  $('#lekarska_kalkulacka_EGFR-vyska-range').change( function() {
63      $('#lekarska_kalkulacka_EGFR-vyska-number').val( $('#lekarska_kalkulacka_EGFR-vyska-range').val() );
64  });
65  $('#lekarska_kalkulacka_EGFR-vyska-number').change( function() {
66      $('#lekarska_kalkulacka_EGFR-vyska-range').val( $('#lekarska_kalkulacka_EGFR-vyska-number').val() );
67  });
68  $('#lekarska_kalkulacka_EGFR-vaha-range').change( function() {
69      $('#lekarska_kalkulacka_EGFR-vaha-number').val( $('#lekarska_kalkulacka_EGFR-vaha-range').val() );
70  });
71  $('#lekarska_kalkulacka_EGFR-vaha-number').change( function() {
72      $('#lekarska_kalkulacka_EGFR-vaha-range').val( $('#lekarska_kalkulacka_EGFR-vaha-number').val() );
73  });
74
75  $('#input[name=isCystatin]').change( function() {
76      var isCystatin = $('#input[name=isCystatin]:checked').val();
77      if (isCystatin) {
78          $('#lekarska_kalkulacka_EGFR-serovy-cystatin-number').removeAttr('disabled');
79          $('#lekarska_kalkulacka_EGFR-serovy-cystatin-range').removeAttr('disabled');
80      }
81      else {
82          $('#lekarska_kalkulacka_EGFR-serovy-cystatin-number').attr('disabled', 'disabled');
83          $('#lekarska_kalkulacka_EGFR-serovy-cystatin-range').attr('disabled', 'disabled');
84      }
85  });
86  });
87
88  function lekarska_kalkulacka_EGFR_mdrd(kreatinin, vek, urea, albumin, pohlavi, puvod) {
```

```

90 // nestandardizovane stanoveni
91 //var result = 547.1535 * Math.pow(kreatinin, -1.154) * Math.pow(vek, -0.203);
92
93 // standardizovane stanoveni
94 var result = 515.3832 * Math.pow(kreatinin, -1.154) * Math.pow(vek, -0.203);
95
96 /* Math.pow((urea * 2.8), -0.17) + Math.pow((albumin*0.1), 0.318);
97 if (pohlavi == 0) { //zena
98     result *= 0.742;
99 }
100 if (puvod == 1) { //afroamerican
101     result *= 1.212;
102 }
103 var result_mlmin = result * 60;
104 result = Math.round(result * 1000)/1000;
105 result_mlmin = Math.round(result_mlmin * 100)/100;
106 return result + "&nbsp;ml/s/1.73&nbsp;m<sup>2</sup> (" + result_mlmin + "&nbsp;ml/min/1.73&nbsp;m<sup>2</sup>)&nbsp;";
107 }
108
109 $( 'input' ).change( function() {
110     var pohlavi = parseInt($('input[name=poohlavi]:checked').val());
111     var vek = $( 'input[type=number][name=vek]').val();
112     var puvod = parseInt($('input[name=puvod]:checked').val());
113     var kreatinin = $( 'input[type=number][name=serovy-kreatinin]').val();
114     var isCystatin = $( 'input[name=isCystatin]:checked' ).val();
115     var cystatin = $( 'input[type=number][name=serovy-cystatin]').val();
116     var urea = $( 'input[type=number][name=urea]').val();
117     var albumin = $( 'input[type=number][name=albumin]').val();
118     var vaha = $( 'input[type=number][name=vaha]').val();
119     var vyska = $( 'input[type=number][name=vyska]').val();
120     var result = 'result';
121     $( '#lekarska_kalkulacka_EGFR-vysledek-MDRD' ).html( lekarska_kalkulacka_EGFR_mdrd(kreatinin, vek, urea, albumin, pohlavi, puvod) );
122 });

```