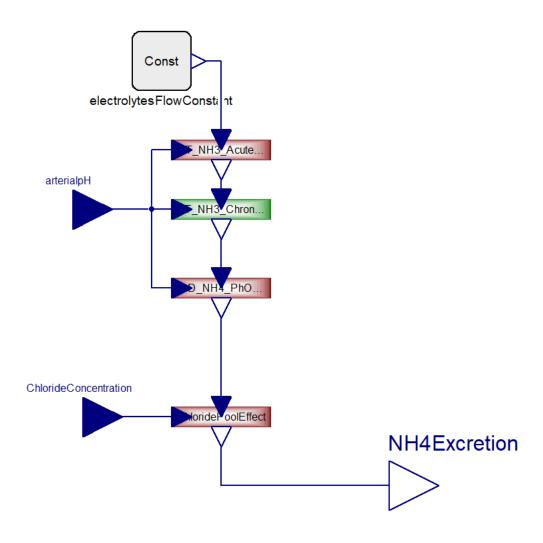
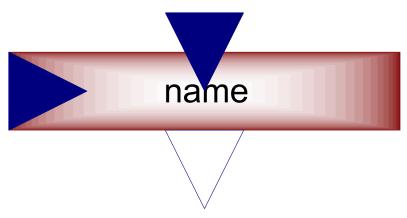
## NH4 Excretion

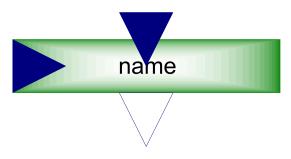


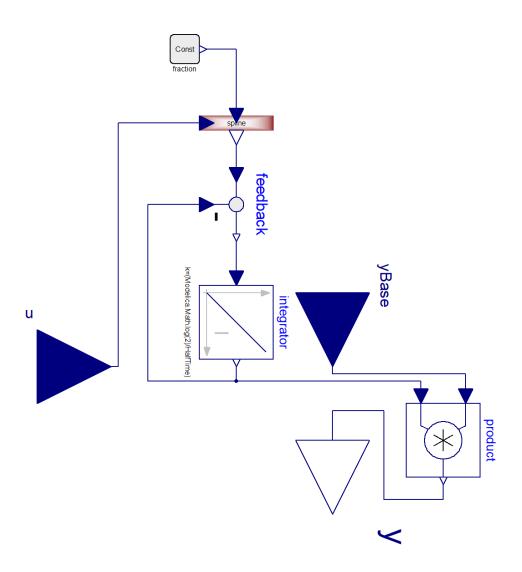
EletrolyytesFLowConstant = 0.04 mmol/min = 57.6 mmol/d

## Spline:

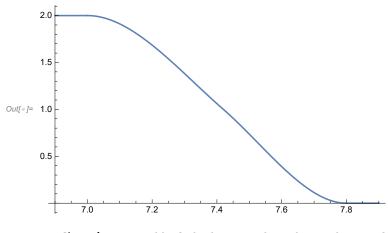


## SplineLag:

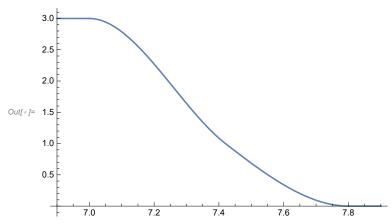




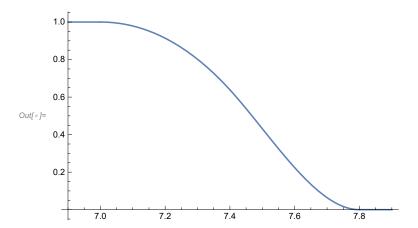
```
In[ • ]:=
NH4Acute = \{\{7.00, 2.0, 0\}, \{7.42, 1.0, -3.0\}, \{7.80, 0.0, 0\}\};
                \{\{7.00,2.0,0\},\{7.45,1.0,-3.0\},\{7.80,0.0,0\}\}\ *\}
 (*
 colemanSpline[NH4Acute]
 Plot[ff[pH], {pH, 6.9, 7.9}]
```



$$\begin{array}{lll} & \text{NH4Chronic} = \{ \{7.00, 3.0, 0\}, \{7.42, 1.0, -4.0\}, \{7.80, 0.0, 0\} \}; \\ & (* & \{ \{7.00, 3.0, 0\}, \{7.45, 1.0, -4.0\}, \{7.80, 0.0, 0\} \} & *) \\ & \text{colemanSpline} [\text{NH4Chronic}] \\ & \text{Plot} [\text{ff}[\text{pH}], \{\text{pH}, 6.9, 7.9\}] \\ \end{array}$$



$$\begin{array}{lll} \mathit{In[*]} &=& \mathsf{pHonFlux} = \{\{7.00, 1.0, 0\}, \{7.42, 0.6, -2.0\}, \{7.80, 0.0, 0\}\}; \\ & (\star & \{\{7.00, 1.0, 0\}, \{7.45, 0.6, -2.0\}, \{7.80, 0.0, 0\}\} \ \star) \\ & \mathsf{colemanSpline}[\mathsf{pHonFlux}] \\ & \mathsf{Plot}[\mathsf{ff}[\mathsf{pH}], \{\mathsf{pH}, 6.9, 7.9\}] \\ \end{array}$$



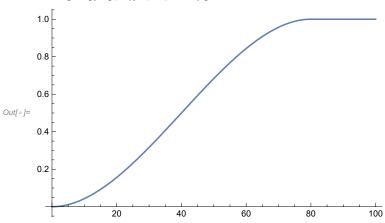
```
In[@]:= ff[7.2]
 0.0674139 * ff[7.2]
```

 $Out[\ \ \ \ \ ]=\ 0.914048$ 

Out[\*]= **0.0616196** 

In[ • ]:=

ln[\*]:= ChlorideEffect = {{0.00, 0.0, 0}, {80, 1.0, 0.0}}; colemanSpline[ChlorideEffect] Plot[ff[pH], {pH, 0, 100}]



https://paperpile.com/shared/z8jfSE

In[ • ]:=

In[ • ]:=

In[ • ]:=