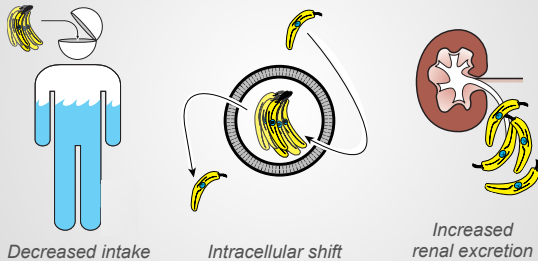




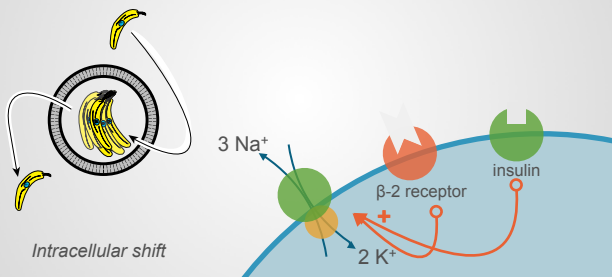
# Hypokalemia

Intracellular shift

## Three processes of hypokalemia



## Intracellular shift



- ➡ cell growth
- ➡ periodic paralysis
- ➡ tocolytics for preterm labor
- ➡ beta agonists for asthma and COPD
- ➡ refeeding syndrome

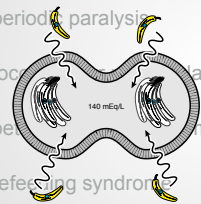
➡ cell growth

periodic paralysis

tolcolytics for preterm labor

beta agonists for asthma and COPD

refeeding syndrome



Treatment of folate and  
B-12 deficiency

cell growth

➡ periodic paralysis

tolcolytics for preterm labor

beta agonists for asthma and COPD

refeeding syndrome

➔ periodic paralysis

Episodes of sudden muscle weakness due to acute decreases in serum potassium

*Autosomal dominant*

*Thyrotoxic*



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cell growth

periodic paralysis

➔ tocolytics for preterm labor

beta agonists for asthma and COPD

refeeding syndrome

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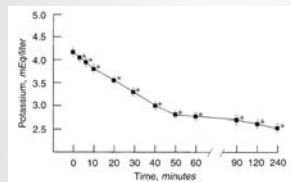
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➔ tocolytics for preterm labor



Terbutaline  
Ritodine

Braden GL, et al. *Kidney Int.* 1997;51(6):1867-75.

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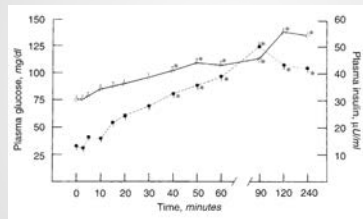
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→ tocolytics for preterm labor



Braden GL, et al. *Kidney Int.* 1997;51(6):1867-75.

cell growth

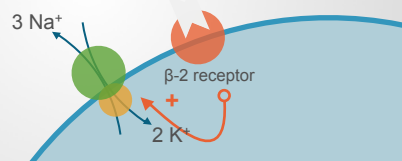
periodic paralysis

tolcolytics for preterm labor

→ beta agonists for asthma and COPD

refeeding syndrome

→ beta agonists for asthma and COPD





➡ refeeding syndrome



*"It is sobering that, despite all these efforts, 13,000 Belsen inmates died after liberation. Some inmates had been starved for so long that they had lost the ability to digest the rations that well-meaning British soldiers offered them; within minutes of taking a biscuit, some inmates just passed away."*

[http://www.bbc.co.uk/history/worldwars/wwtwo/liberation\\_camps\\_01.shtml](http://www.bbc.co.uk/history/worldwars/wwtwo/liberation_camps_01.shtml)

cell growth

periodic paralysis

tocolytics for preterm labor

beta agonists for asthma and COPD

refeeding syndrome