



# PRAKTIKA - ALKOHOL



Alkoholický  
nápoj je ...?

# Alkoholický nápoj

obsahuje nejméně 0.75 % etylalkoholu

<b>Belgie, Dansko Francie, Lucembursko Švýcarsko, Španělsko Kanada, Velká Británie</b>	<b>0,8</b>
<b>Finsko, Holandsko Německo, Švédsko Japonsko, Rakousko Norsko, Portugalsko</b>	<b>0,5</b>
<b>Česká republika Polsko</b>	<b>0,2</b>
<b>USA</b>	<b>1</b>
<b>Slovensko</b>	<b>0,3</b>

# Nápoje v obj. %

- Pivo 10st --- 4 %
- Pivo 11st --- 4,5 %
- Pivo 12st --- 5 %
- Víno ---10 %
- Sekt --- 12 %
- Aperitivy ---18 %
- Likéry ---- 21-25 %
- Destiláty --- do 60 %

## Teoretická hladina alkoholu v krvi (celkové množství absorbovaného alkoholu v g/kg ( promile)

$$C = \frac{A}{p \cdot r}$$

- c ... Hladina alkoholu v krvi v g/kg  
A í množství vst ebaného alkoholu (g)  
p í hmotnost osoby  
r í reduk ní faktor : muži 0.7, ženy 0.6

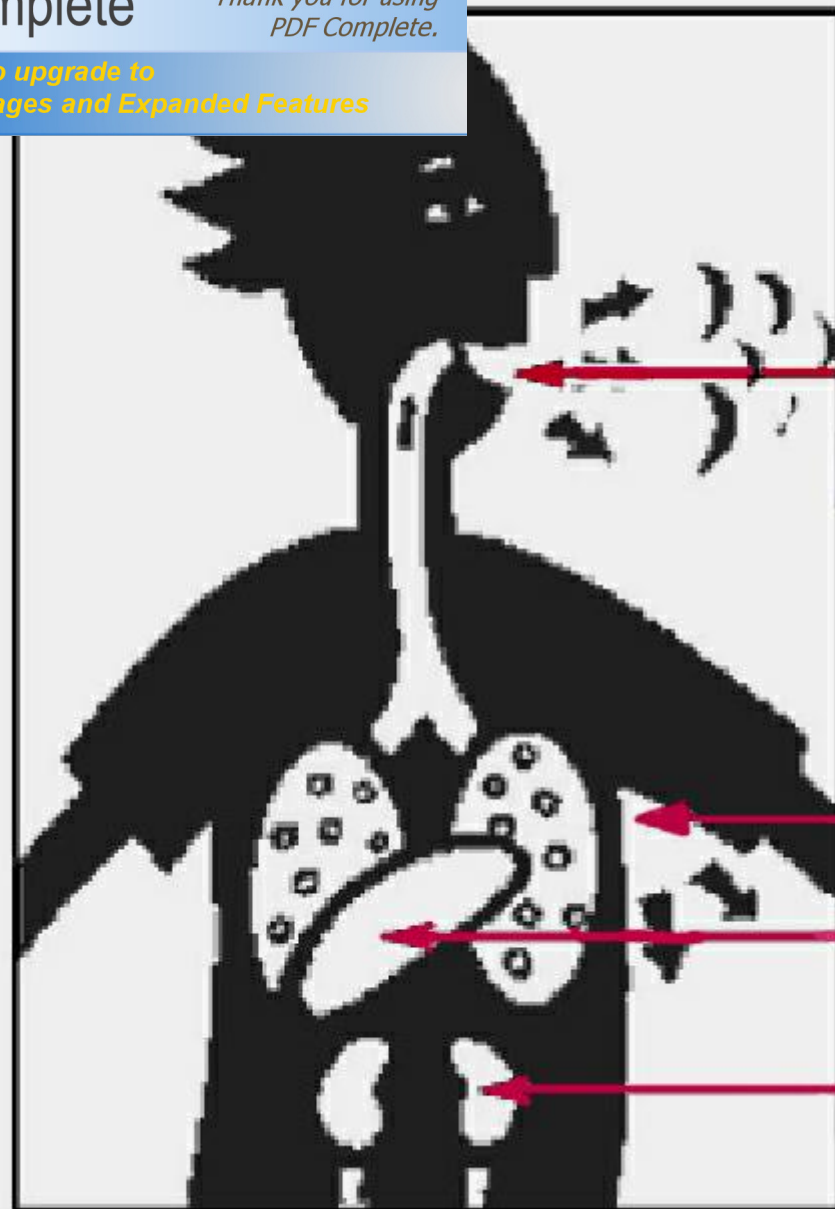
ý alkohol :



Vst ebaný alkohol :



resorb ní deficit



**dech 3 %**

**pot 3 %**

**játra 91 %**

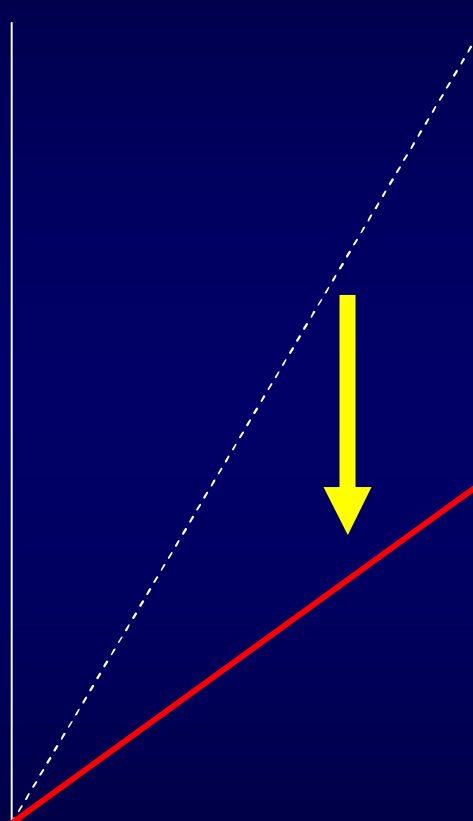
**moč 3 %**

**Rychlost odbourávání :**

**beta 60**

**0.12 ó 0.20 g/kg za hod.**



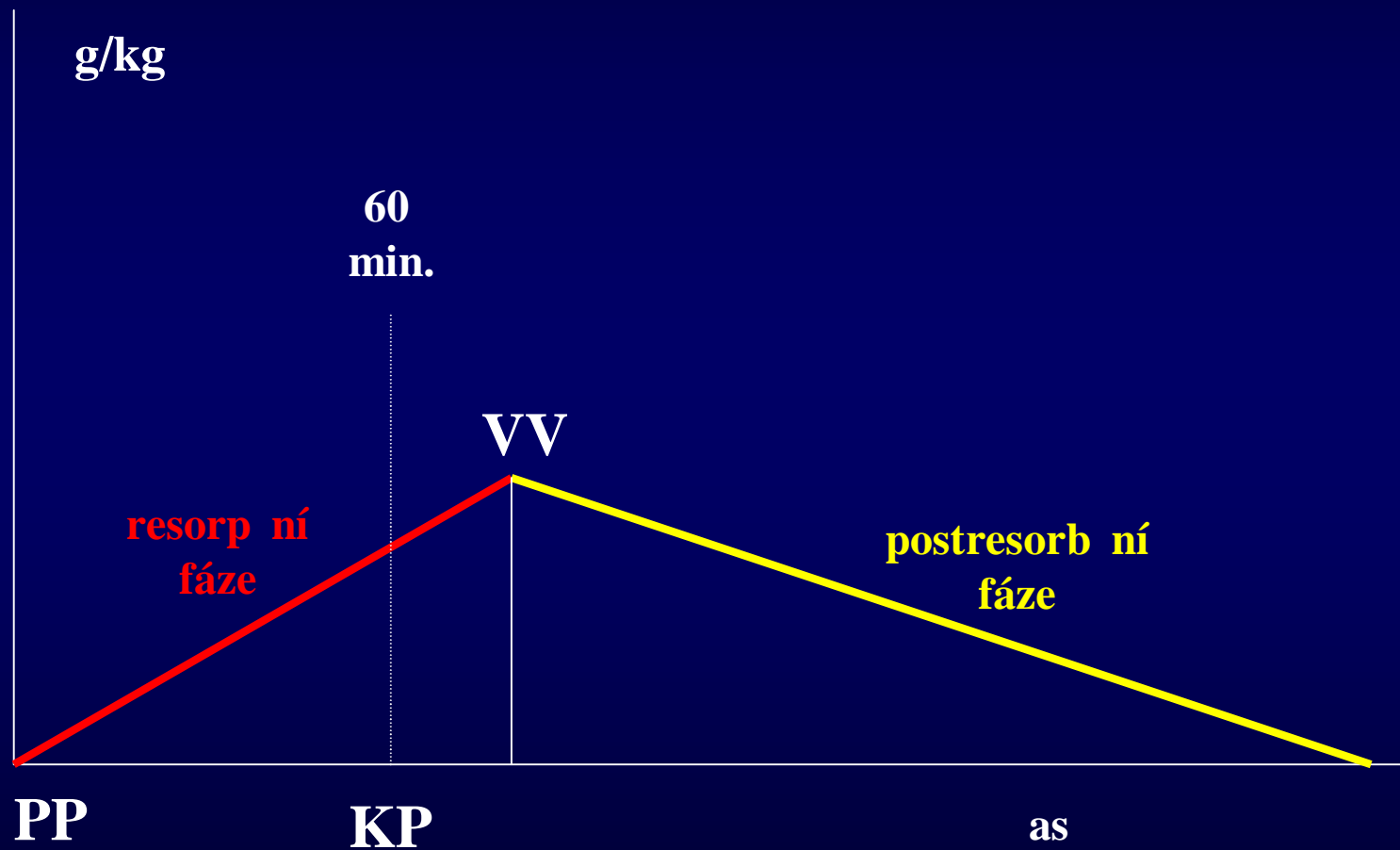


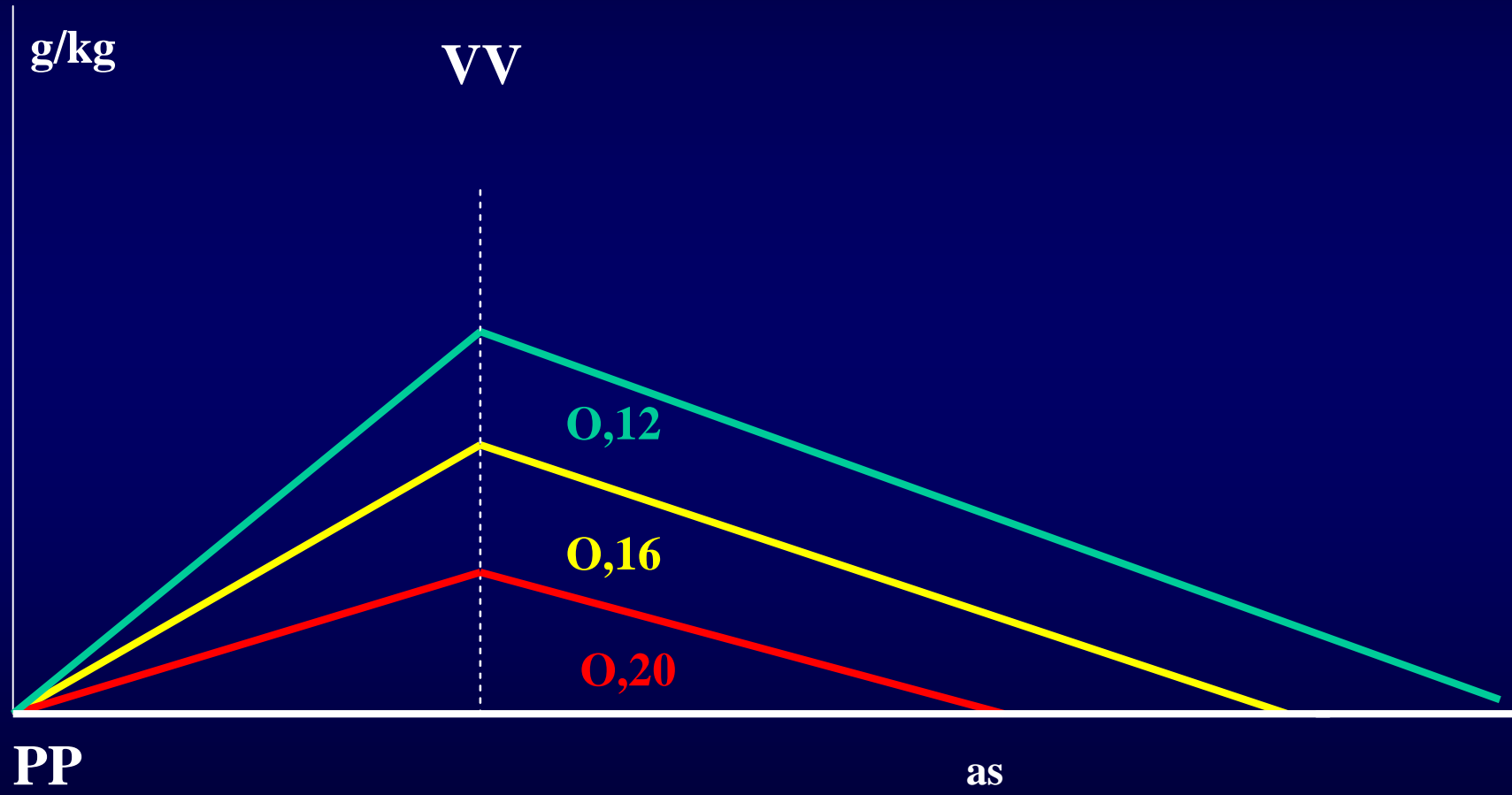
PP

**beta 60 :**

**- 0.12 ó 0.20 g/kg za hod.**

**Játra : alkoholdehydrogenáza**





# Celková doba odbourávání

$$= c / \text{beta } 60$$

**Mufl  
80 kg  
4 x pivo 12st.**

**Po átek pití : 20.00 hodin**

**Za jak dlouho může řídit ?**

80 kg

4 x pivo 12st.

Po átek pití : 20.00 hodin

$$\underline{= c / \text{beta } 60}$$

1)  $c = ???$

80 kg

4 x pivo 12st.

Po átek pití : 20.00 hodin

= 1.29 /beta 60

0.12 g/kg

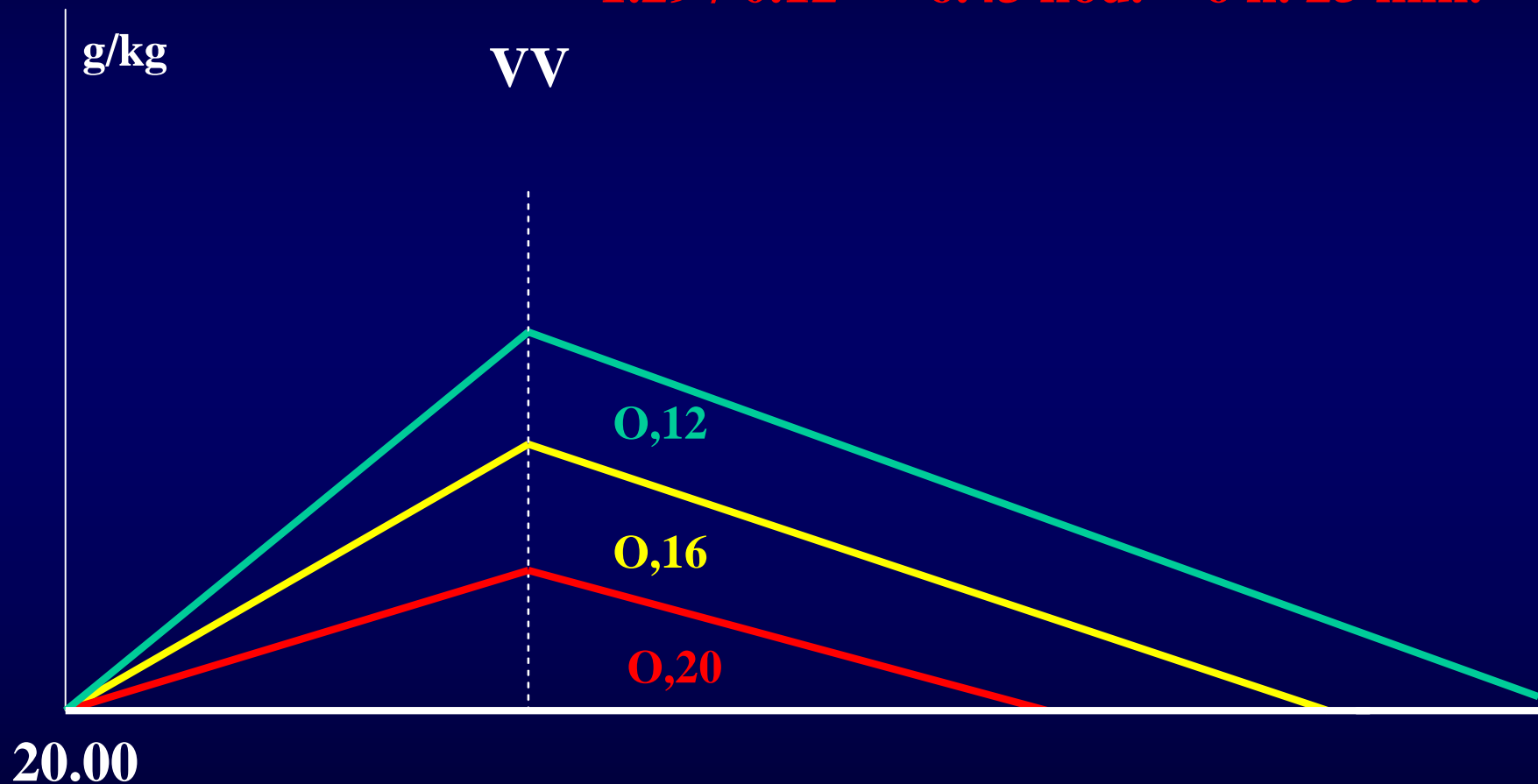
pr m r : 0.16 g/kg

0.20 g/kg

$$1.29 / 0.12 = 10.71 \text{ hod.} = 10 \text{ h. } 42 \text{ min.}$$

$$1.29 / 0.16 = 8.04 \text{ hod.} = 8 \text{ hod } 2 \text{ min.}$$

$$1.29 / 0.12 = 6.43 \text{ hod.} = 6 \text{ h. } 25 \text{ min.}$$

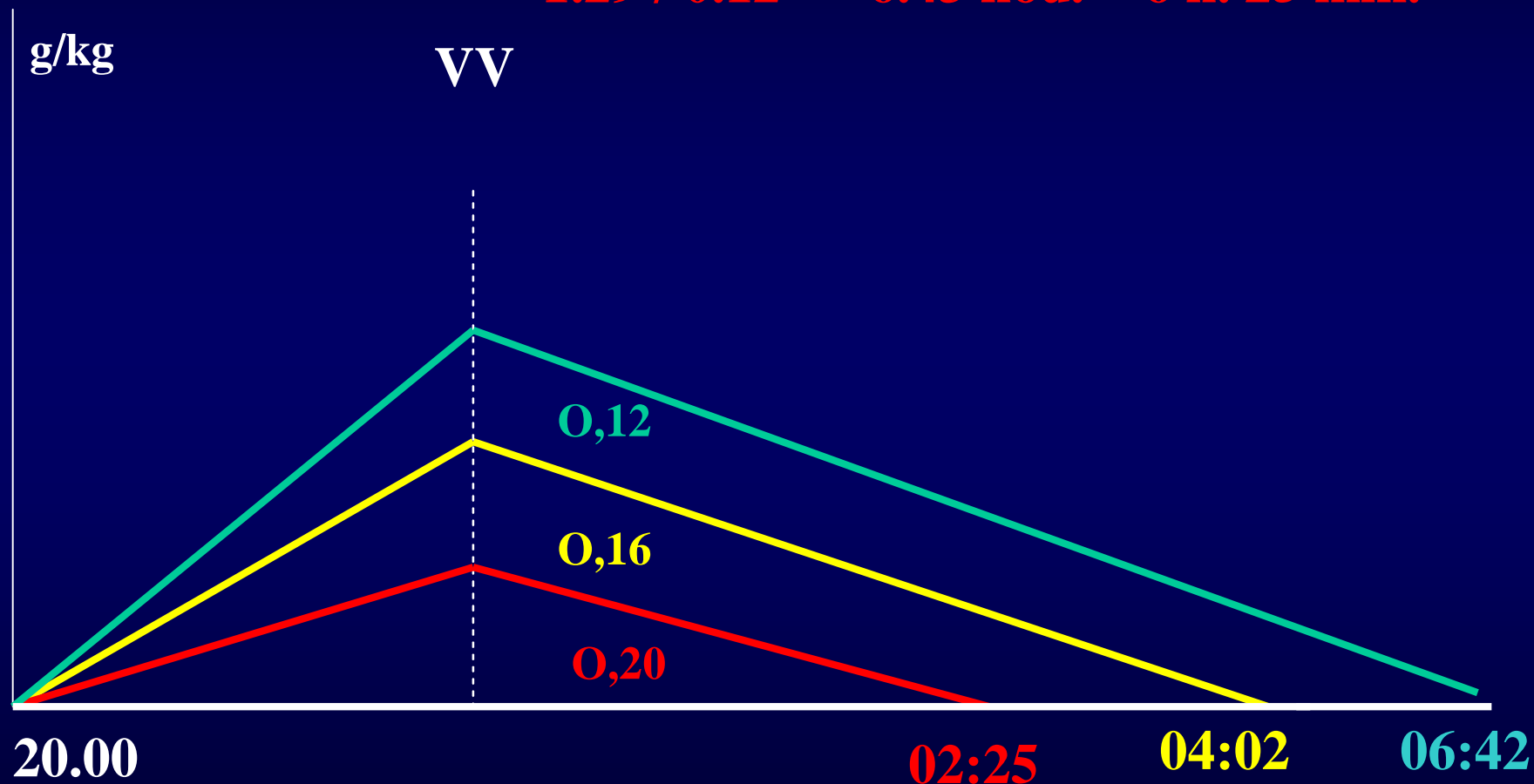


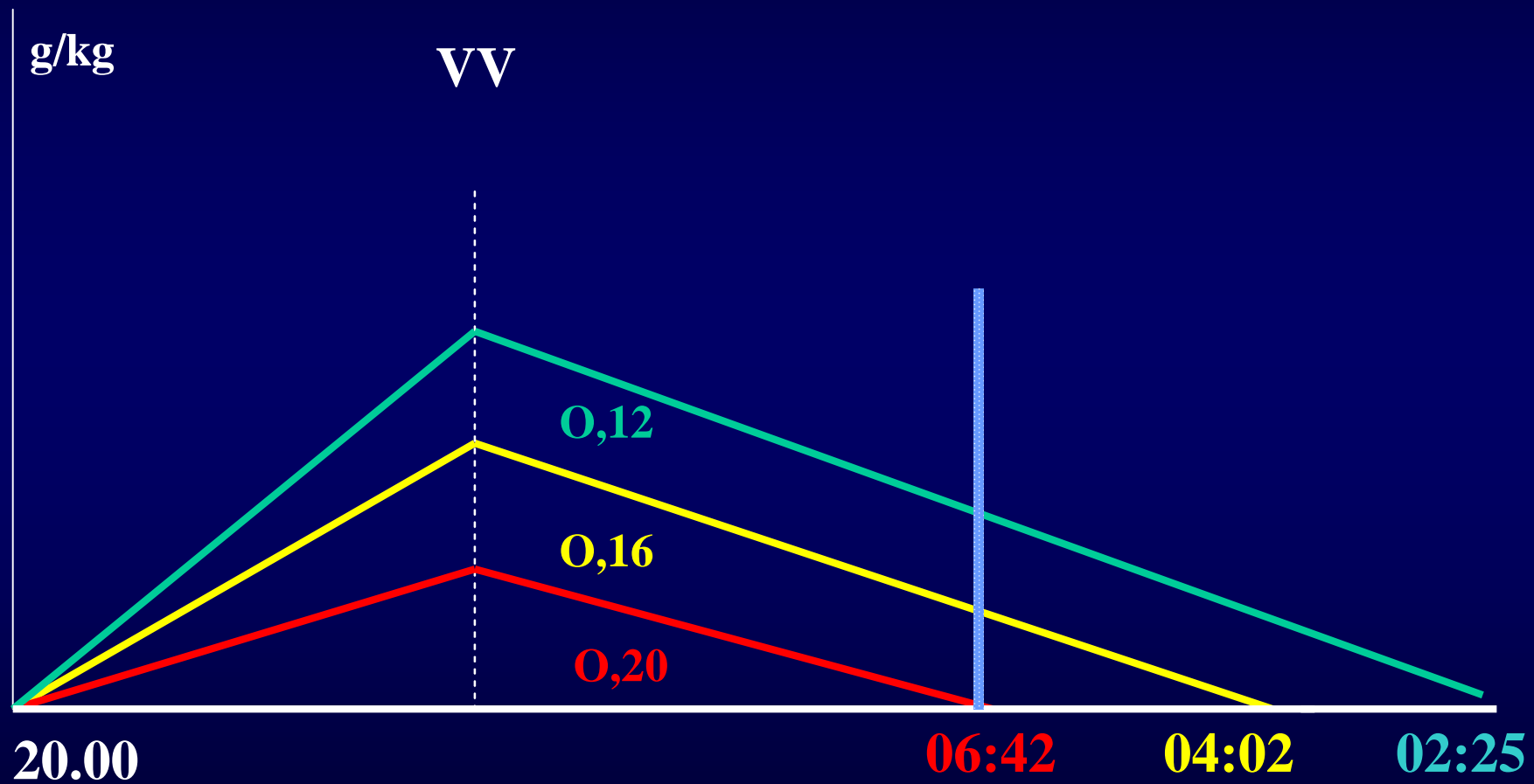


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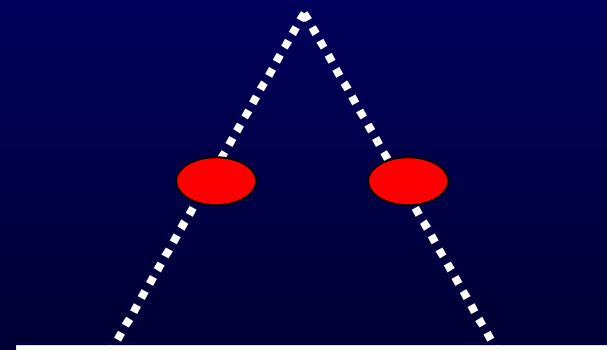
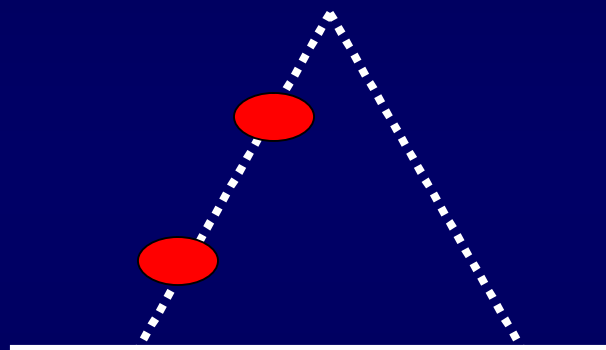
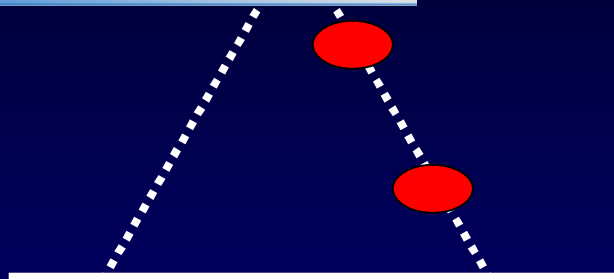




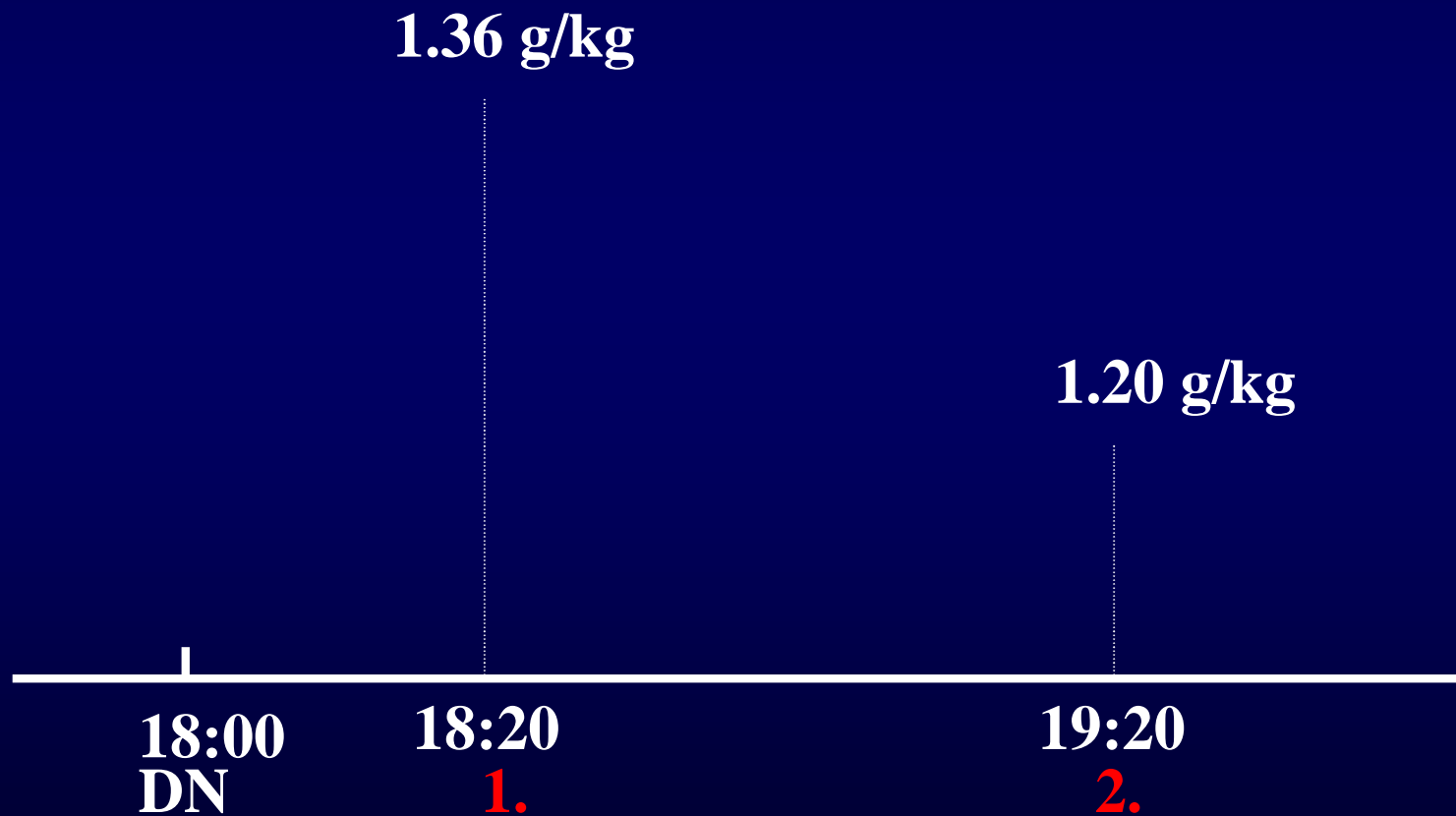
# Dvojitý odběr krve

p esn po 60 minutách

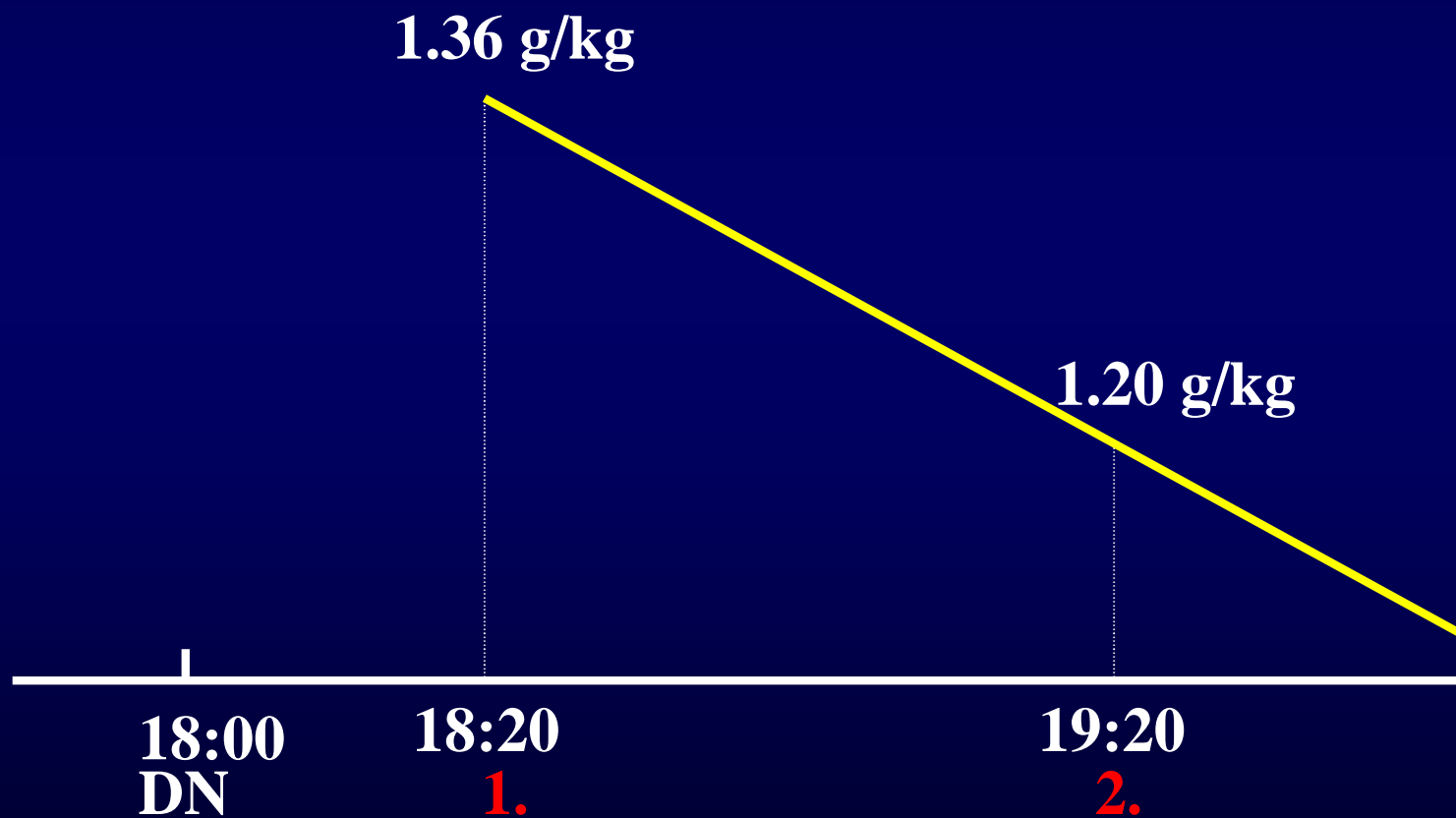
zaznamenat as p esn 07:12 ó 08:12



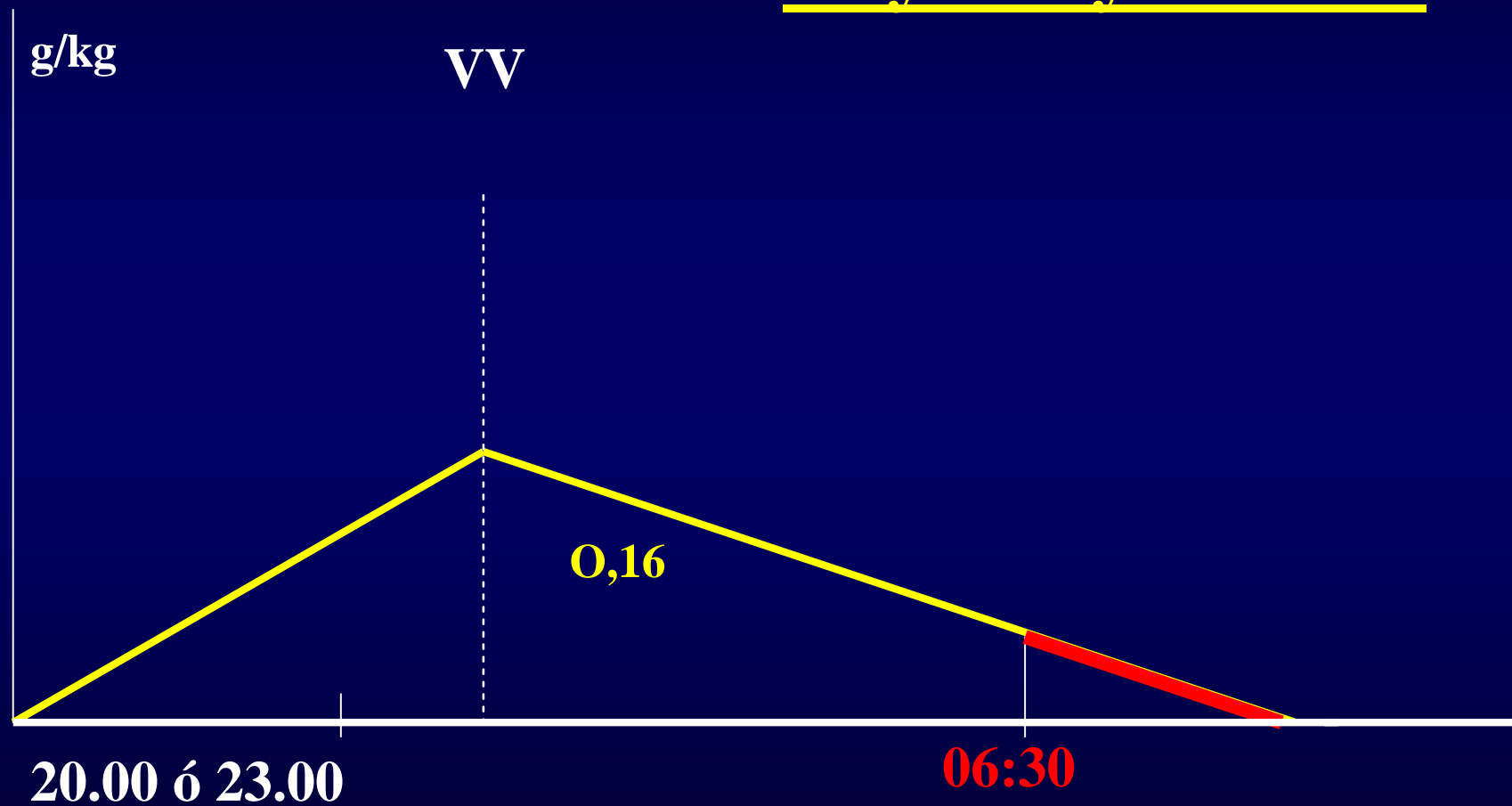
## Dvojitý odběr vylučovací fáze



## Dvojitý odběr ovocí fáze



# Zbytkový alkohol



**hladina ve vrcholu vst. ebávání  
pro beta 60 = 0.20 g/kg**

**c = 1,60 g/kg**

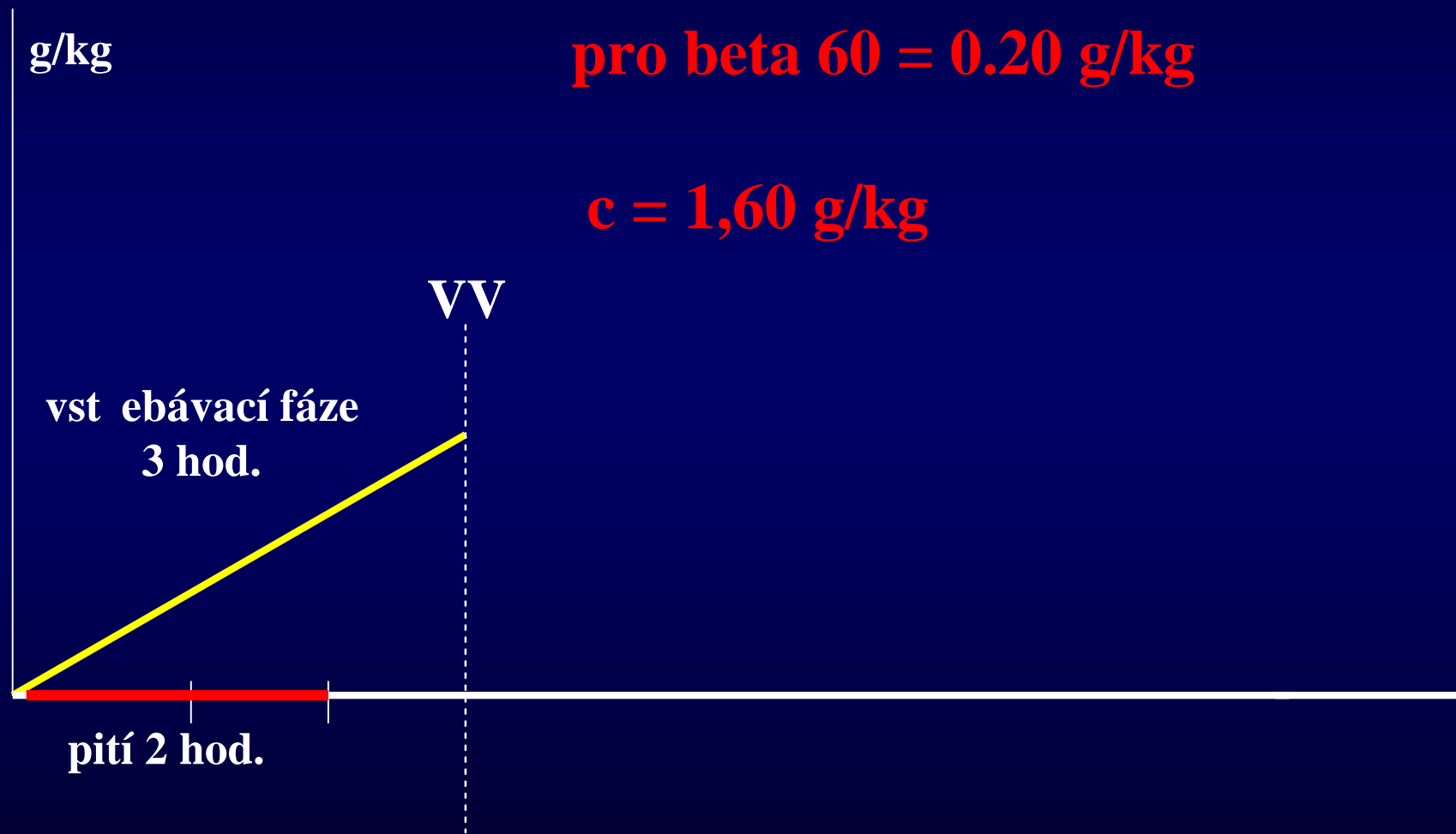
**g/kg**

**pití 2 hod.**



**hladina ve vrcholu vst ebávání  
pro beta 60 = 0.20 g/kg**

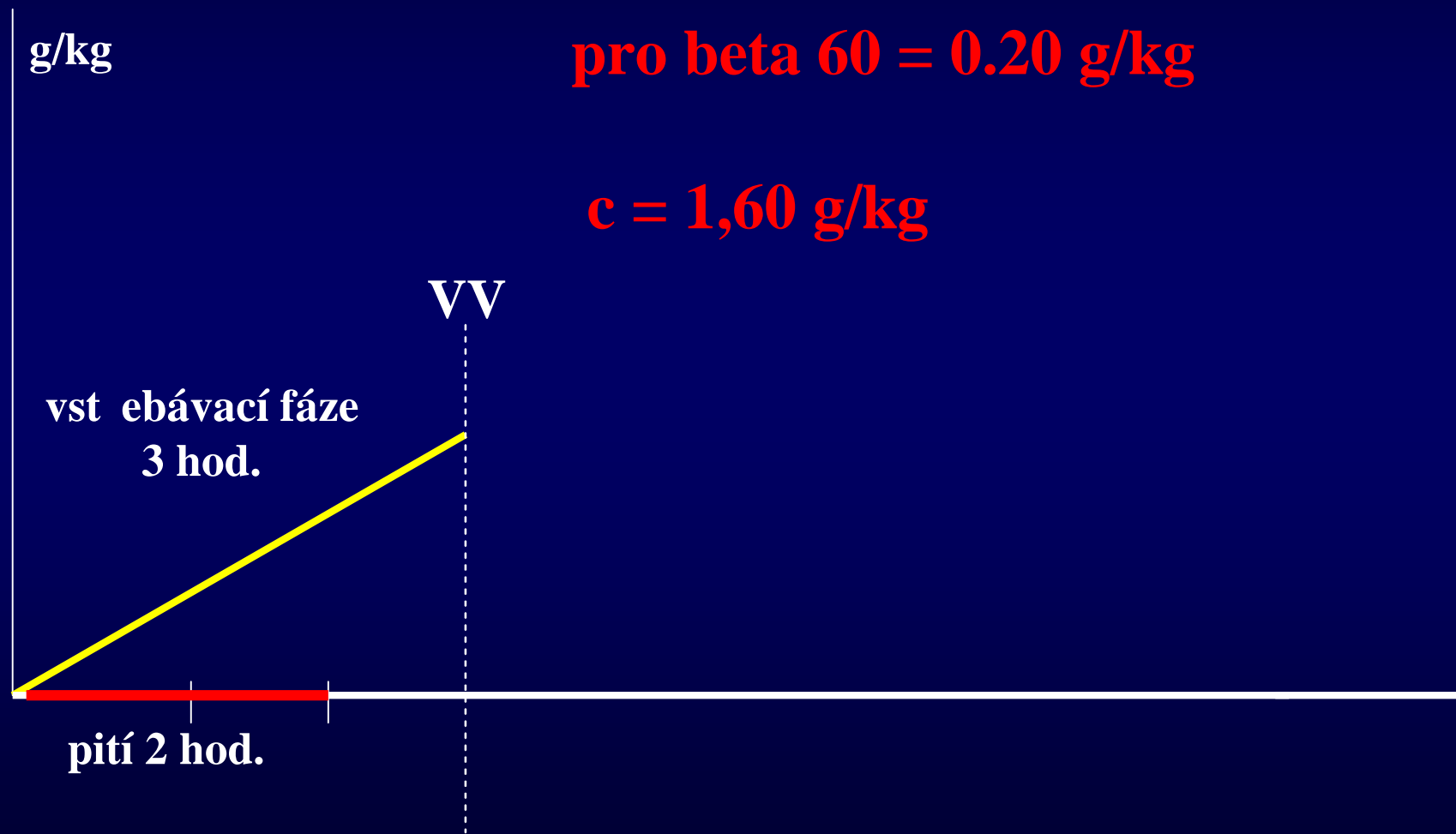
**c = 1,60 g/kg**





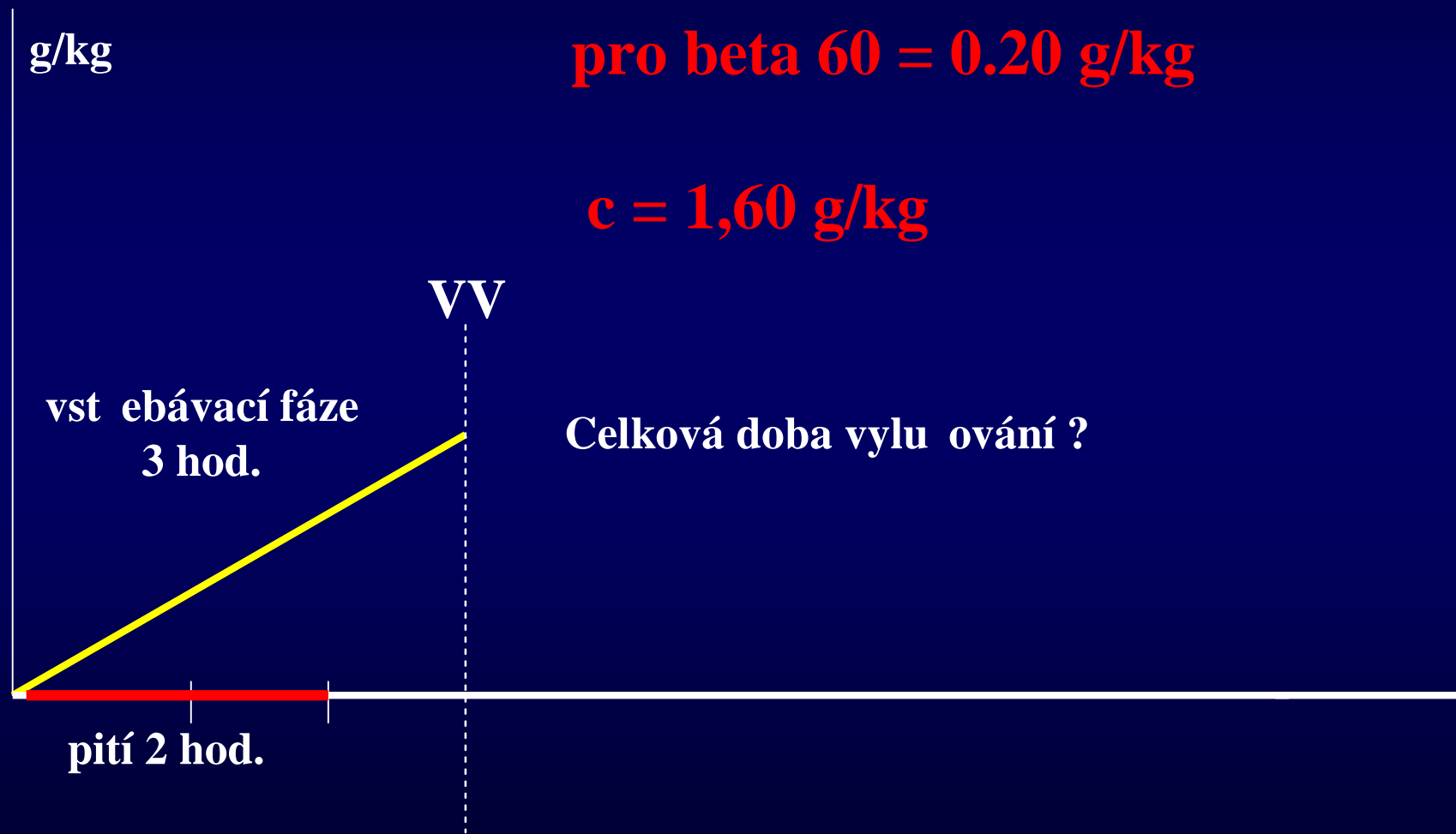
**hladina ve vrcholu vst ebávání  
pro beta 60 = 0.20 g/kg**

**c = 1,60 g/kg**



**hladina ve vrcholu vst ebávání  
pro beta 60 = 0.20 g/kg**

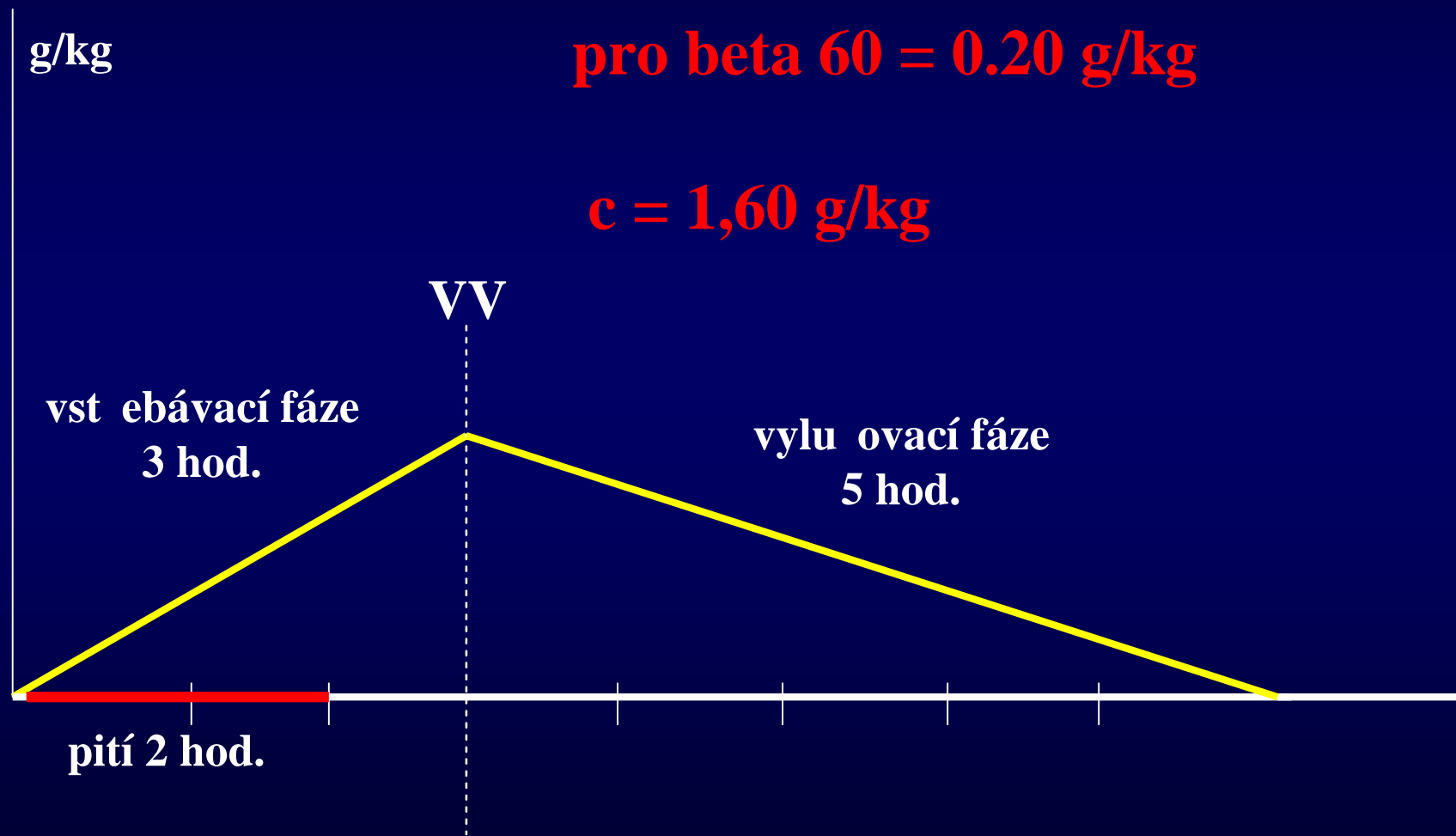
**c = 1,60 g/kg**



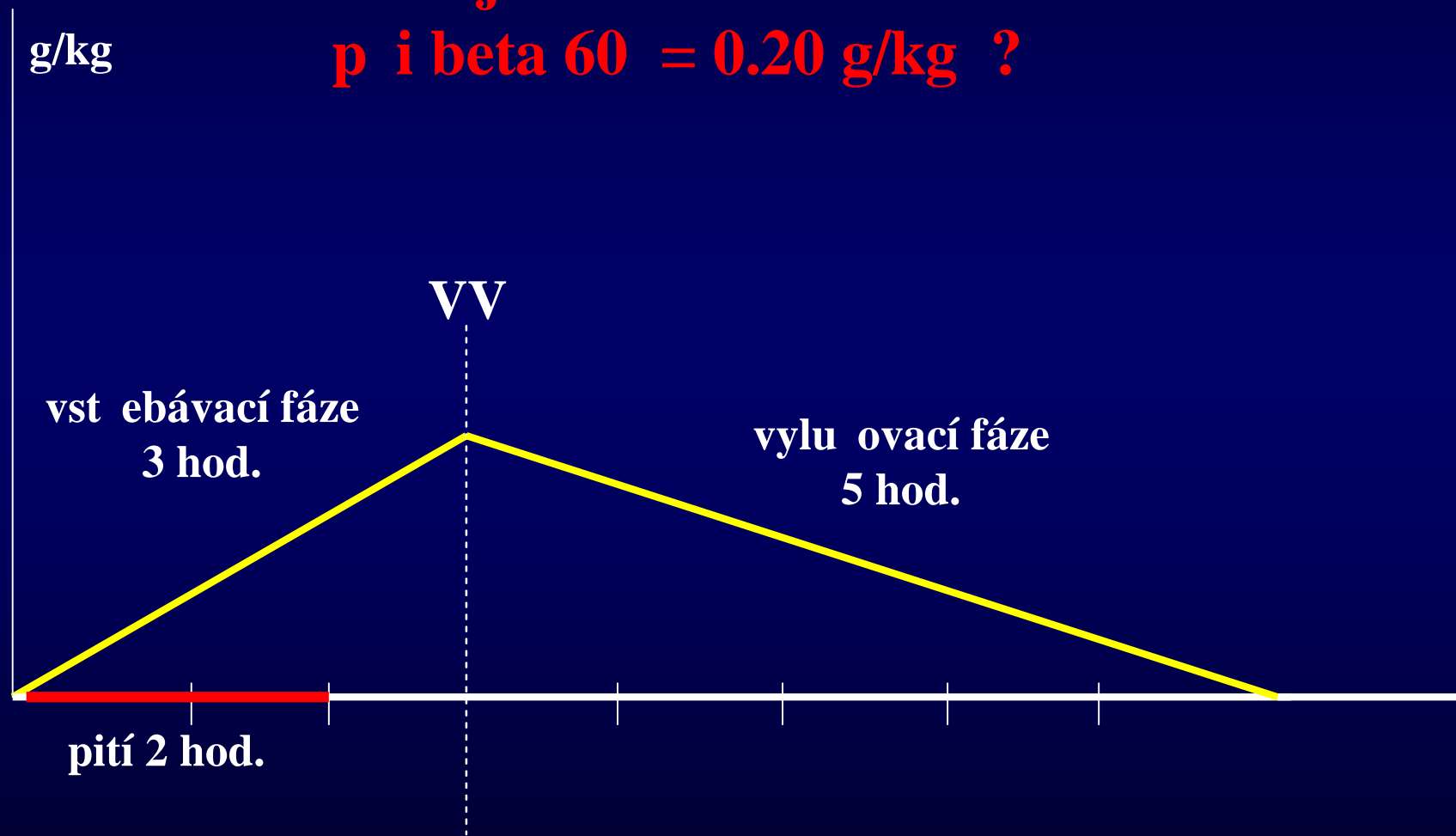
**Celková doba vylučování ?**

**hladina ve vrcholu vst ebávání  
pro beta 60 = 0.20 g/kg**

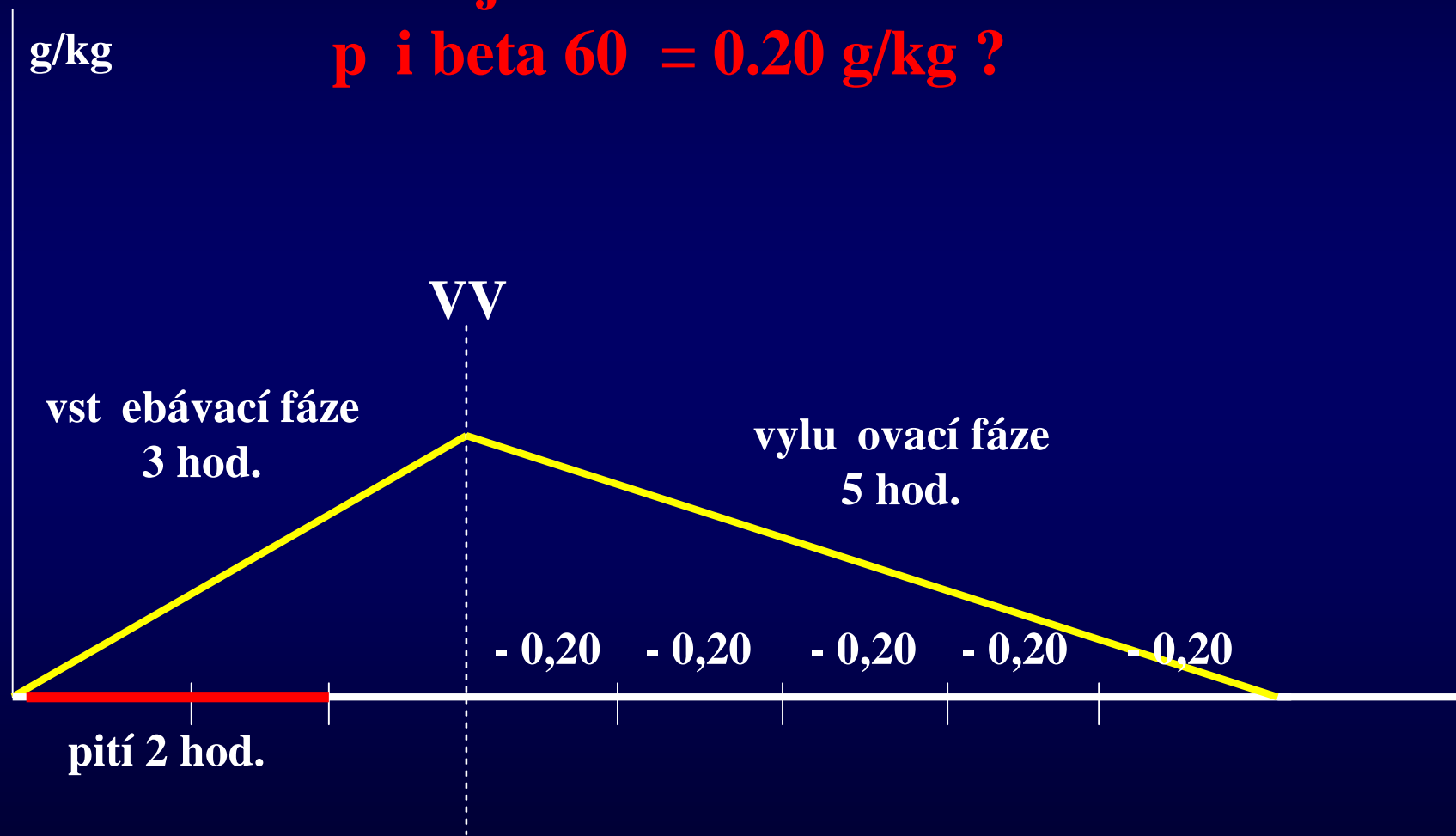
**c = 1,60 g/kg**



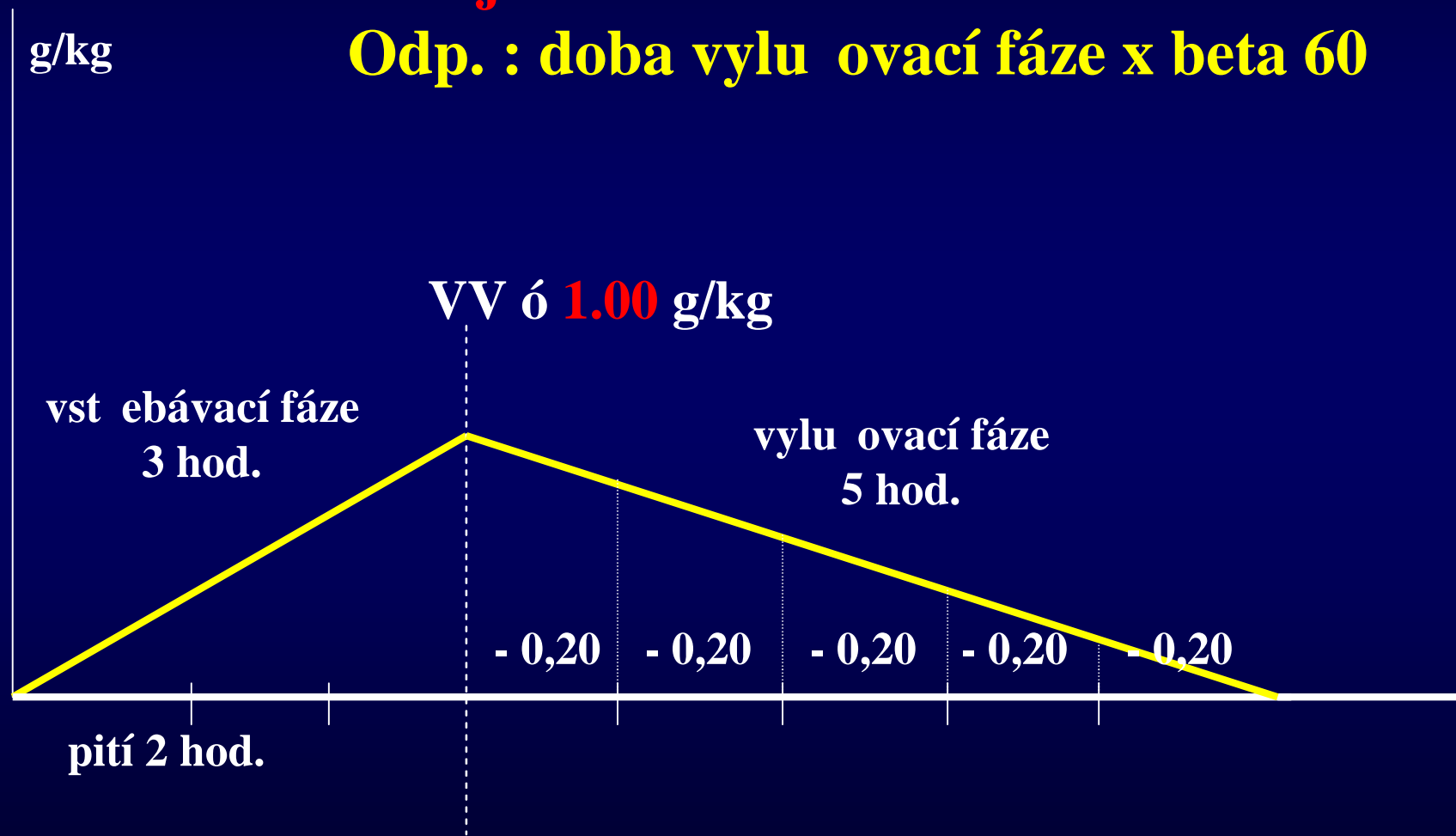
**Jaká je hladina ve vrcholu vst ebávání  
p i beta 60 = 0.20 g/kg ?**



**Jaká je hladina ve vrcholu vst ebávání  
p i beta 60 = 0.20 g/kg ?**



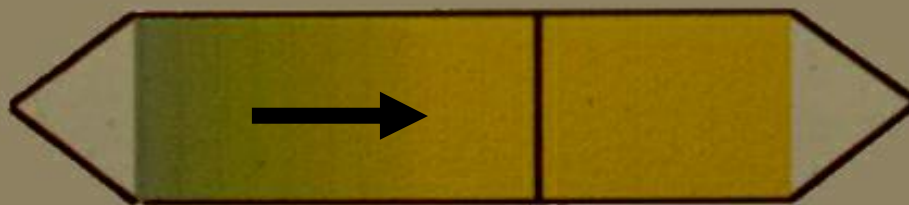
**Jaká je hladina ve vrcholu vst ebávání ?**  
**Odp. : doba vylu ovací fáze x beta 60**



# Vyšetřovací metody k průkazu alkoholu v krvi

## ALTEST:

- citlivost 0.3 g/kg,
- nespecifická zk.

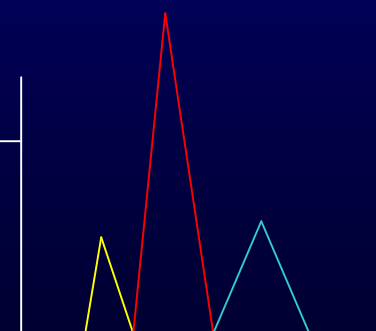
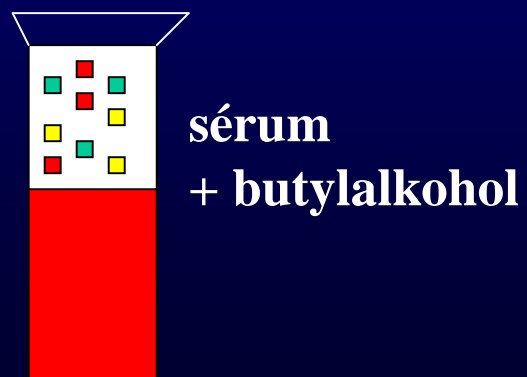


dělicí ryska (cca 0.8 g/kg)

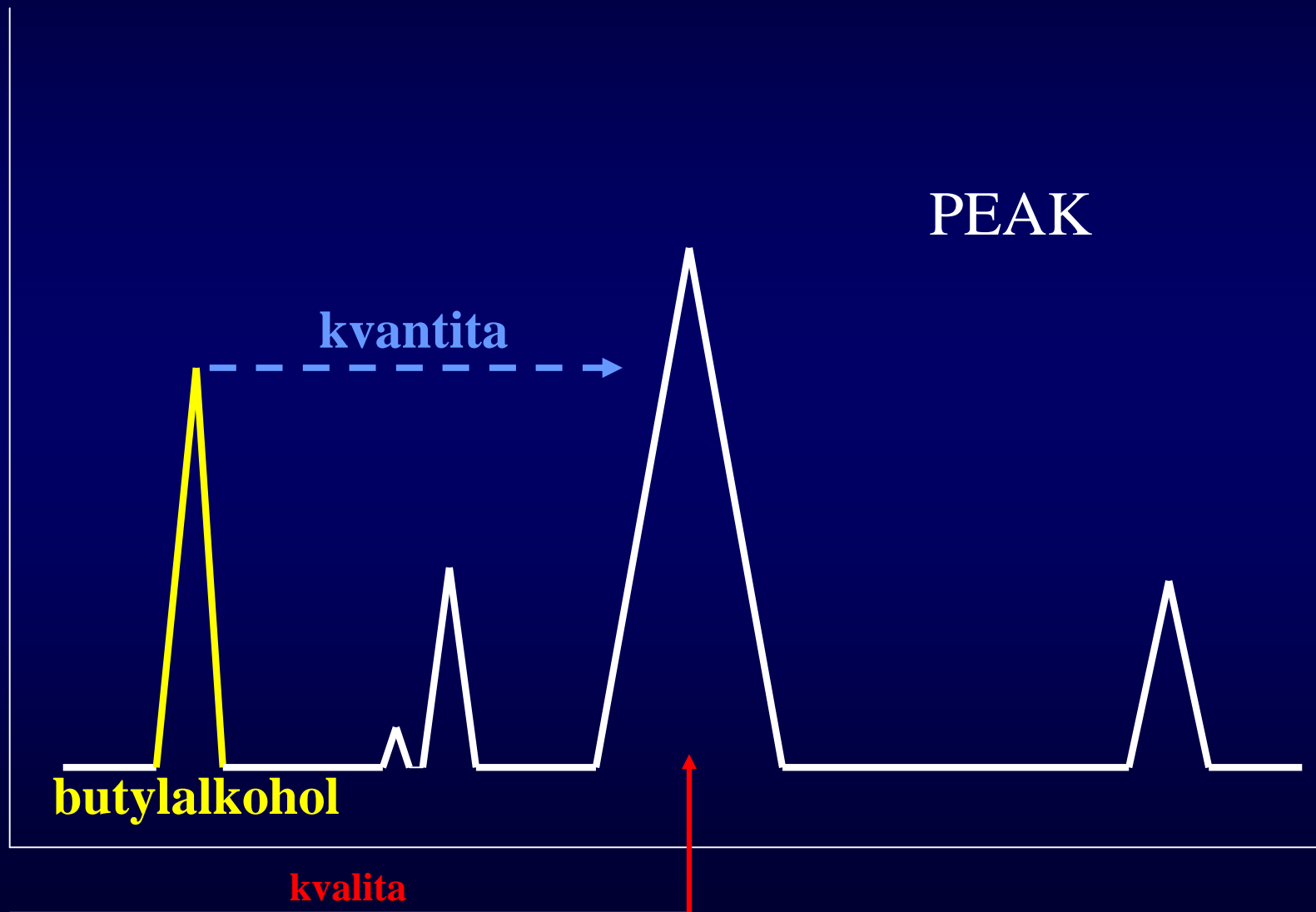




**2 x  
specificita  
0.20 g/kg**



display





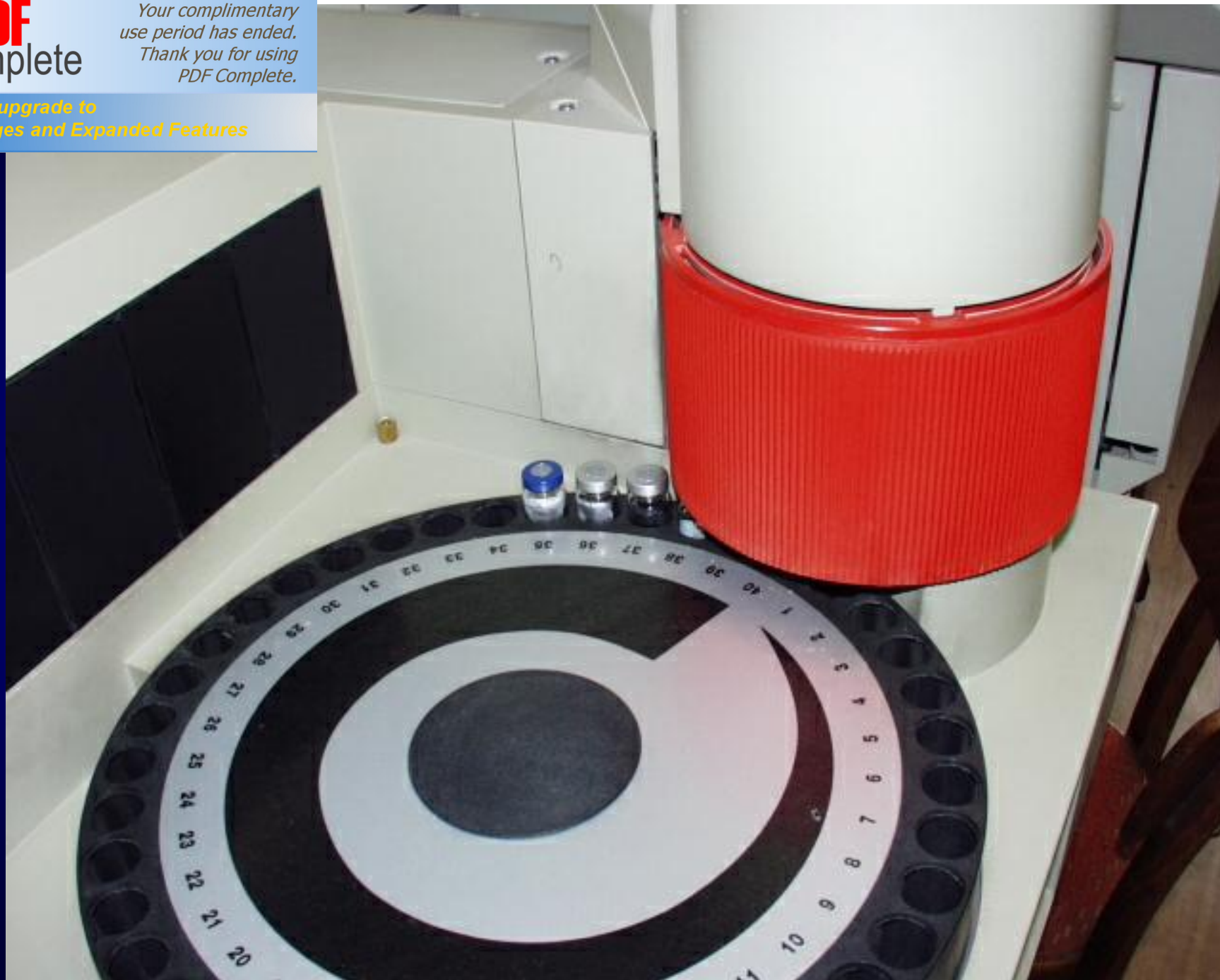
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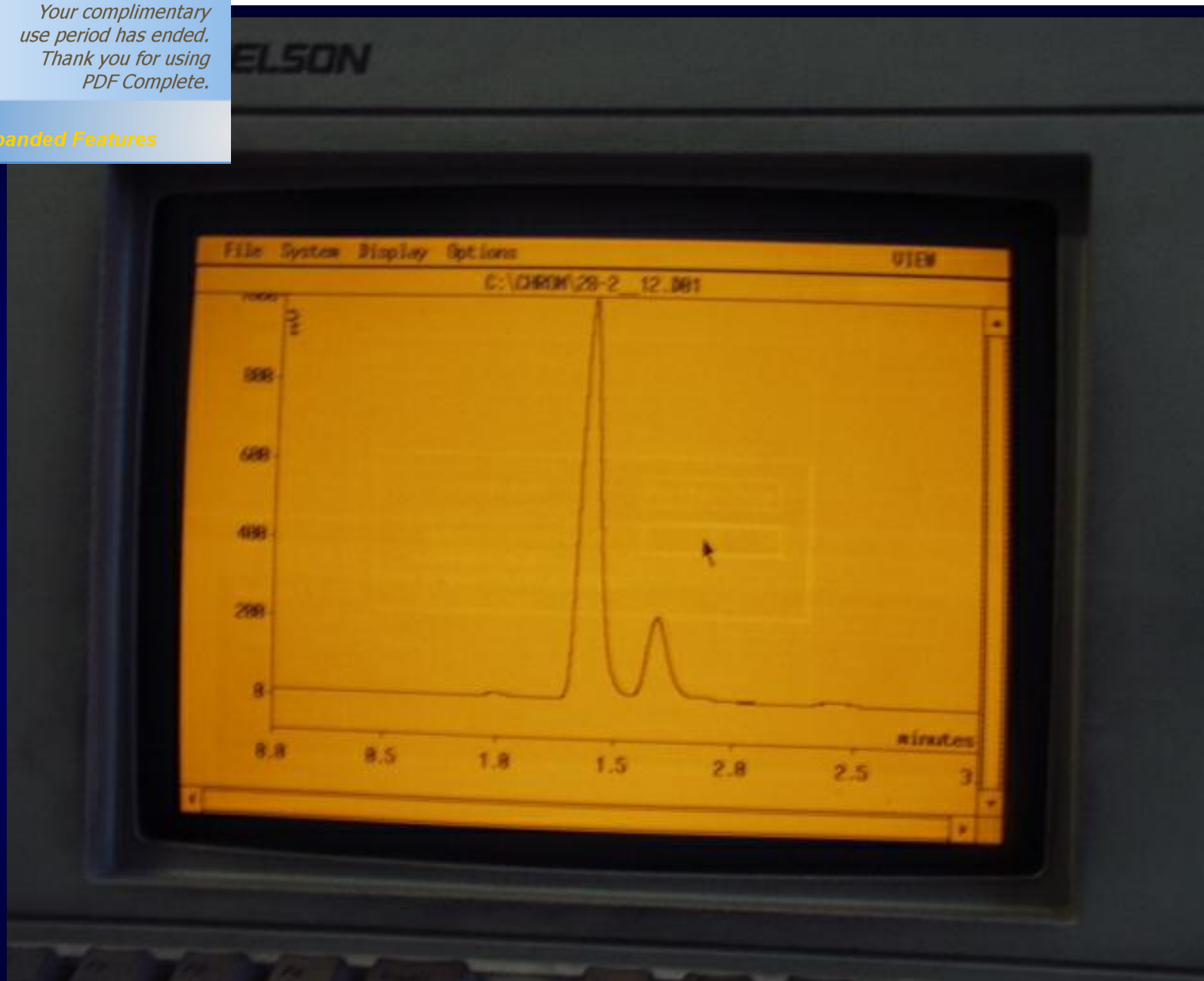






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# The END