

Cum 'împachetăm', în farmacie, antibioticul dintr-o prescripție?

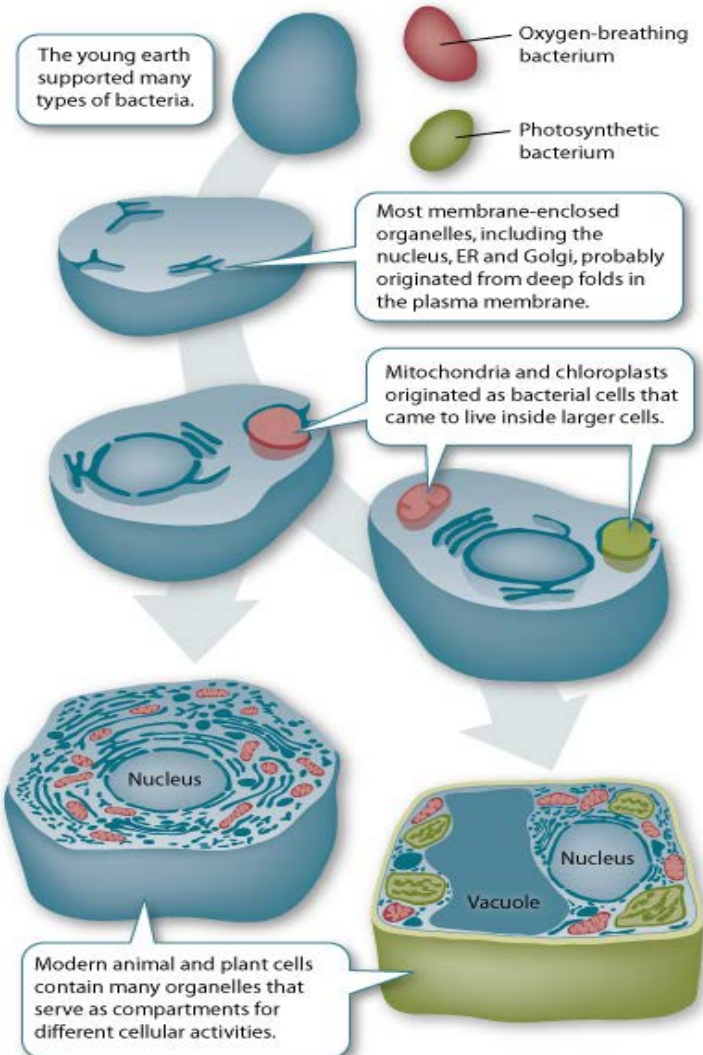
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...inițial...despachetăm:
să existe prescripția!



OMUL=

"multinațională" eucariote/procariote



~**3.8-3.5** miliarde de ani
formarea proto bacteriilor



~**2.8-2.7** miliarde ani

apare **O₂** (cianobacterii)

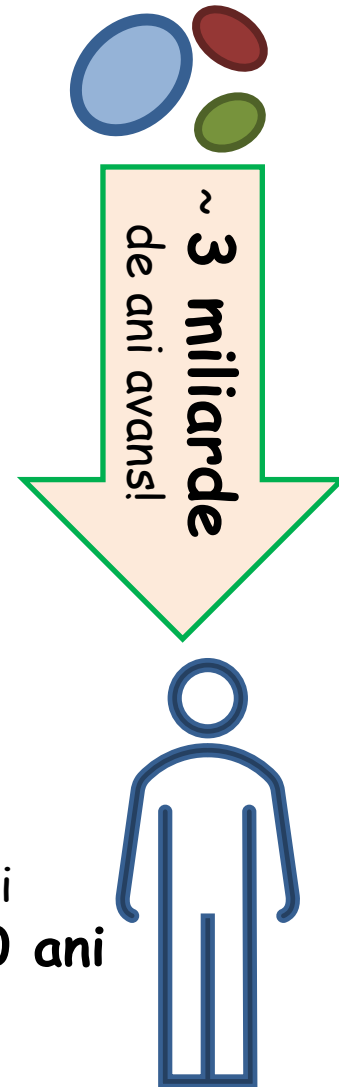
→ **2.45** miliarde ani: suficient O₂
pt susținerea formelor complexe



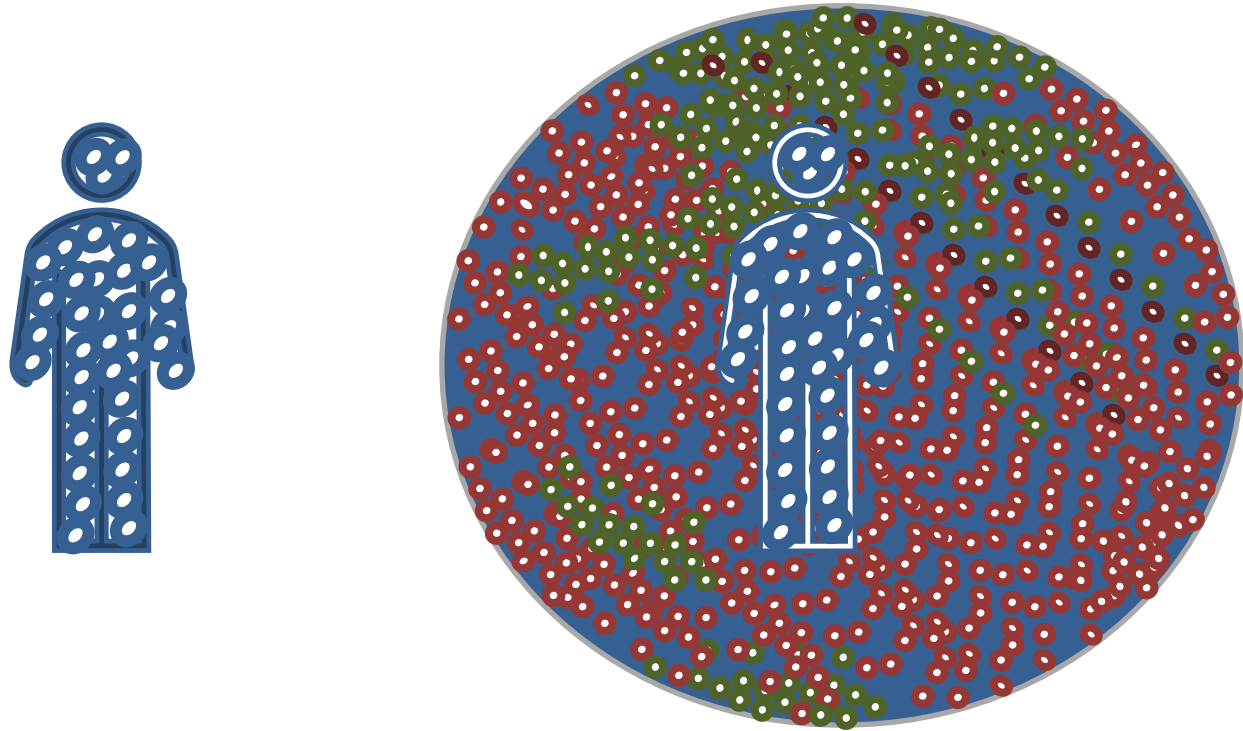
~acum **1.5** miliarde de ani
apar primele eucariote,
prin înglobări (simbioze)
succesive



~acum **8-9** milioane: primii
hominini, apoi, acum ~**250.000** ani
Homo Sapiens



OMUL= "multinațională" eucariote/procariote



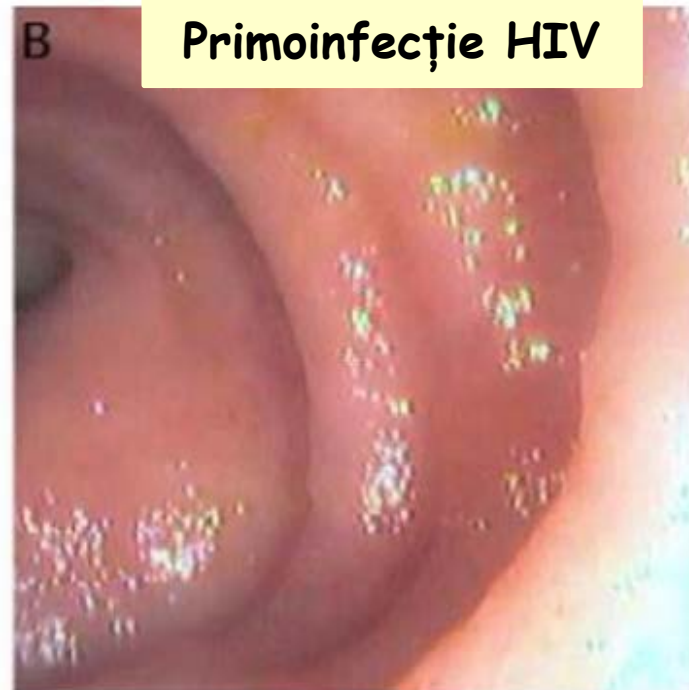
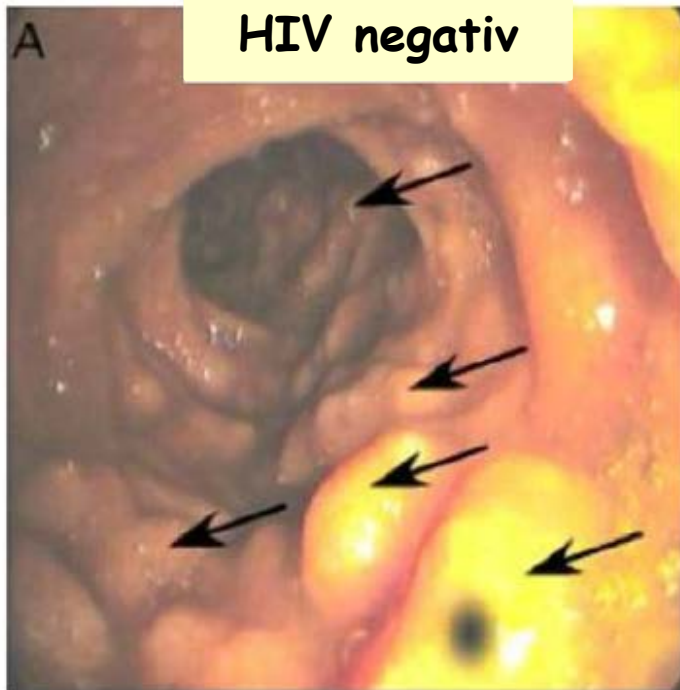
10% celule eucariote versus 90% celule bacteriene

Microbiom ~ Microbiota = ansamblul microorganismelor care populează cvasistabil un anumit areal

Microbiom/microbiotă

10^{12} germeni/g materie fecală ~ 10^{14} germeni în tubul digestiv
~ 1.2-1.5 kg = organ bacterian

Suprafața ~ 400mp = cea mai mare suprafață expusă exteriorului:
necesită cea mai puternică apărare: >60-80% din totalul LfT



Kingdom **Phylum** Class **Order** Family **Genus** Species

Firmicutes 35-65%

- Lactobacillales → *Lactobacillus spp*
 - *Streptococcus spp*, *Enterococcus spp*
- Clostridiales → *Clostridium spp* (cluster I)
- SFB (*segmented filamentous bacteria*)
- Selenomonadales → *Veillonella spp*

Digestie (zaharuri complexe)

Sinteza vitamine B K

Barieră pt microorganisme invadatoare!

Bacteroidetes 25-55% *Bacteroides spp* (

Training imunitar

Actinobacteria 8-55% *Bifidobacterium spp*

Aging, inflamming, obezitate, 

Proteobacteria 2%

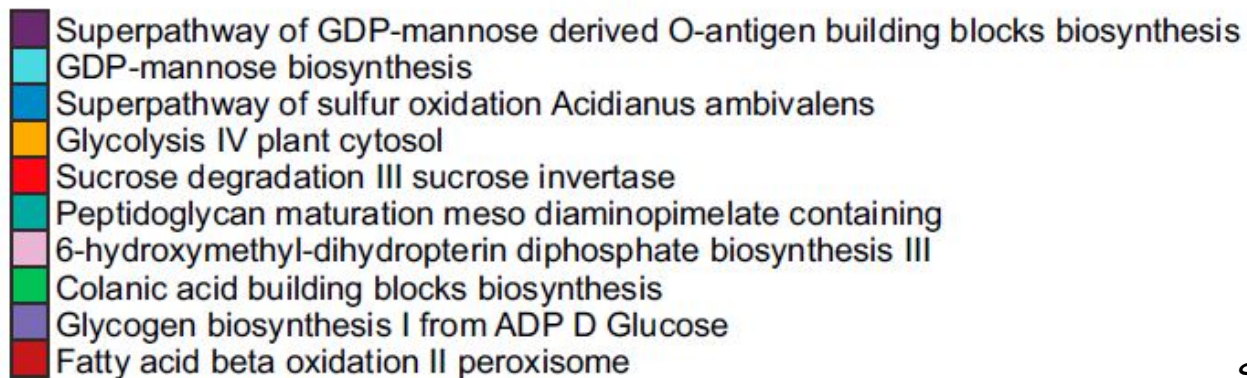
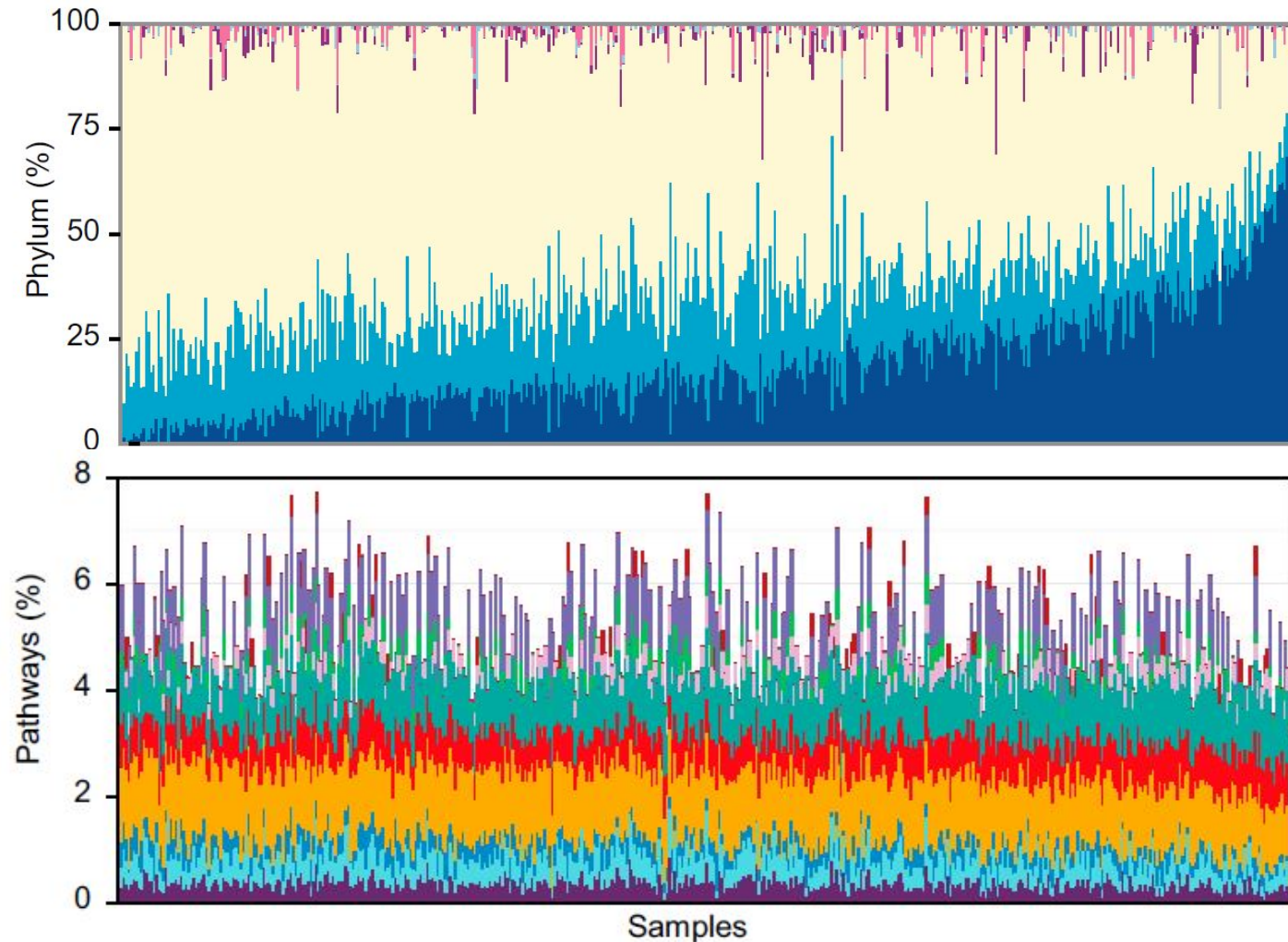
- Enterobacteriales - Enterobacteriaceae
- Pseudomonadales → *Pseudomonas spp*
- Campylobacteriales → *Helicobacter spp*

Chimia cu partenerii

Verrucomicrobia 0-5%

- Verrucomicrobiales → *Akkermansia muciniphila*

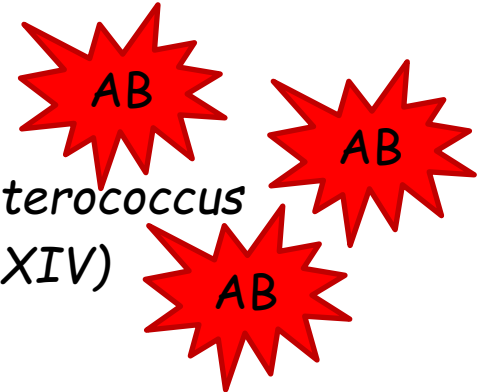
Neuropsihic



Antibioticele: dezechilibre!!

Firmicutes 35-65%

- Lactobacillales → *Lactobacillus spp*
- *Streptococcus, Enterococcus*
- Clostridiales → *Clostridium spp (IV, XIV)*
- *SFB*
- Selenomonadales → *Veillonella spp*



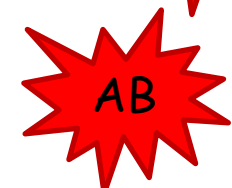
Bacteroidetes 25-55%

- *Bacteroides spp (B fragilis)*



Actinobacteria 8-55%

- *Bifidobacterium spp*



Proteobacteria 2%

- Enterobacteriales - Enterobacteriaceae
- Pseudomonadales → *Pseudomonas spp*
- Campylobacterales → *Helicobacter spp*



Veruccomicrobia 0-5%

- Verrucomicrobiales → *Akkermansia*

Candida spp

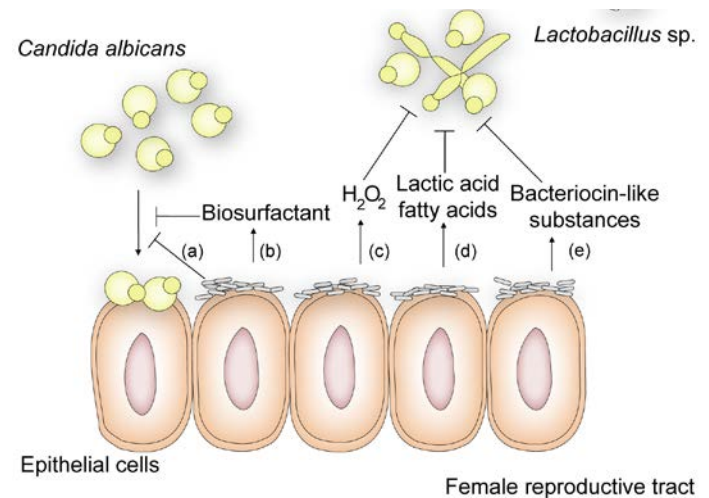
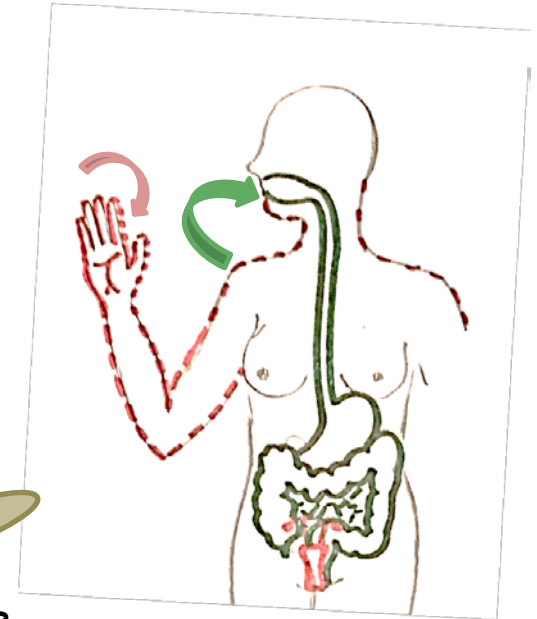
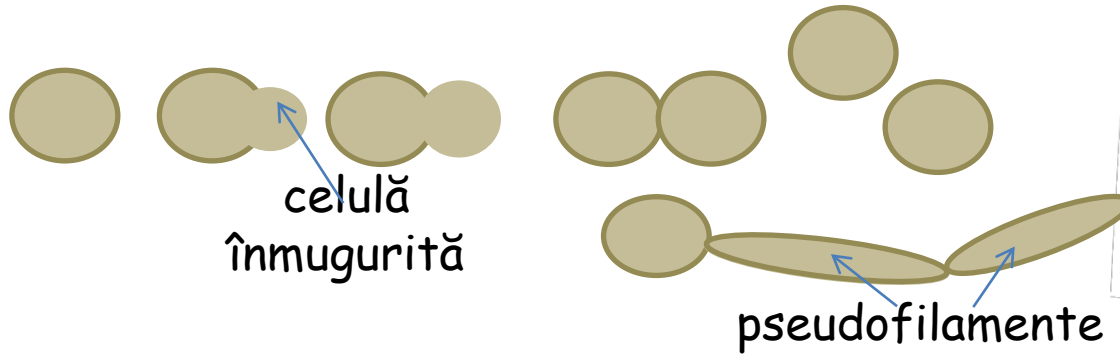




Candidoză superficială

Candida spp

Levură = drojdie: **unicelulară**, rotund/ovalară,
multiplicare prin înmugurire (burjeonare):

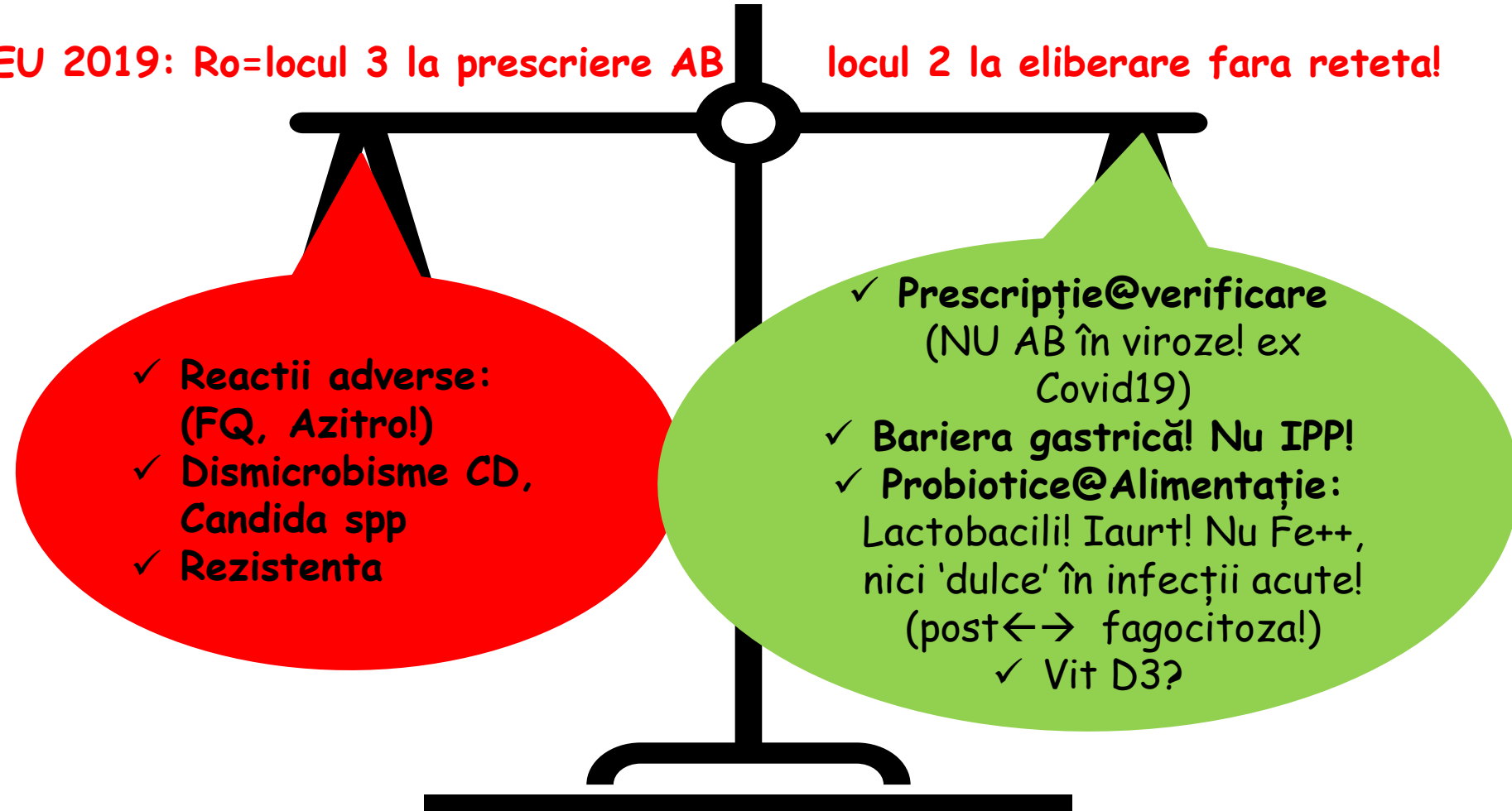


Antibioticele: inventate de microorganismele!
...omul doar le-a descoperit: geniul lui Fleming!

Salvează vieți! 😊

EU 2019: Ro=locul 3 la prescriere AB

locul 2 la eliberare fara reteta!

- 
- ✓ Reactii adverse:
(FQ, Azitro!)
 - ✓ Dismicrobisme CD,
Candida spp
 - ✓ Rezistenta

- ✓ Prescripție@verificare
(NU AB în viroze! ex
Covid19)
- ✓ Bariera gastrică! Nu IPP!
- ✓ Probiotice@Alimentație:
Lactobacili! Iaurt! Nu Fe++,
nici 'dulce' în infecții acute!
(post↔ fagocitoza!)
✓ Vit D3?

...la final...reîmpachetăm:
cu sfaturi, @alimente, probiotice

