



Krečno leglo, američka i evropska trulež i virusne infekcije pčela

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Postoji veliki broj specifičnih poremećaja zdravstvenog stanja pčela različite etiologije.



Otežavajuća okolnost u ranom otkrivanju bolesti pčela su



INAPARENTNE INFEKCIJE

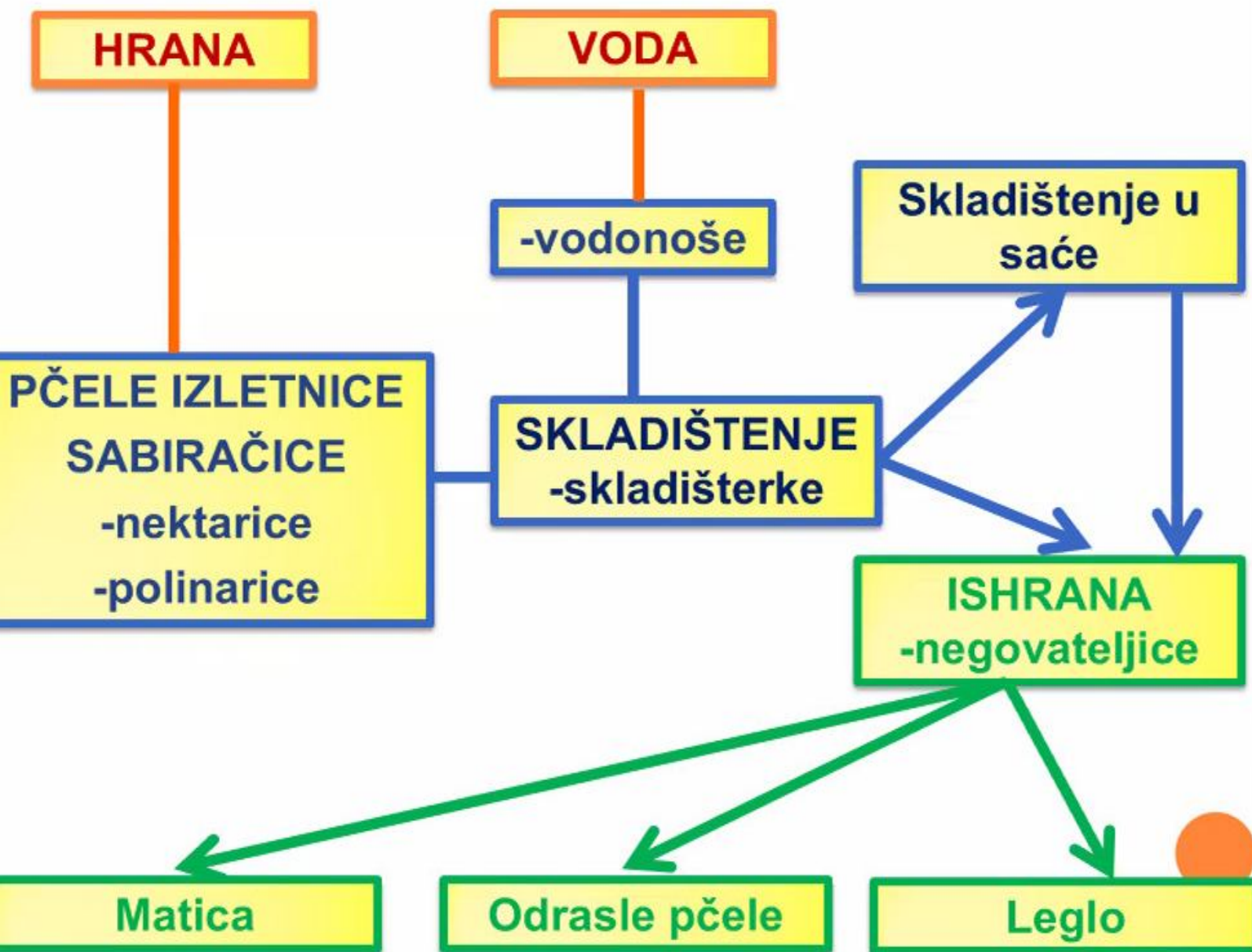


Imunitet pčela

Individualni imunitet

Socijalni imunitet





ASKOSFEROZA



Izgled larvica inficiranih *A. apis*



Uginule larvice izbačene iz košnice na letu

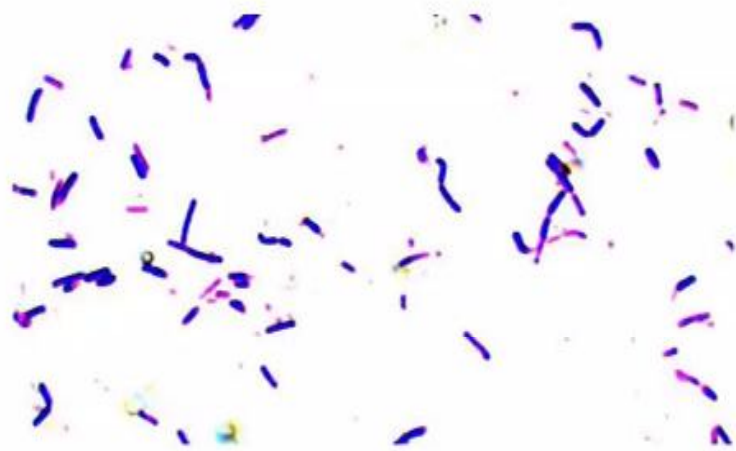


AMERIČKA I EVROPSKA TRULEŽ PČELINJEG LEGLA

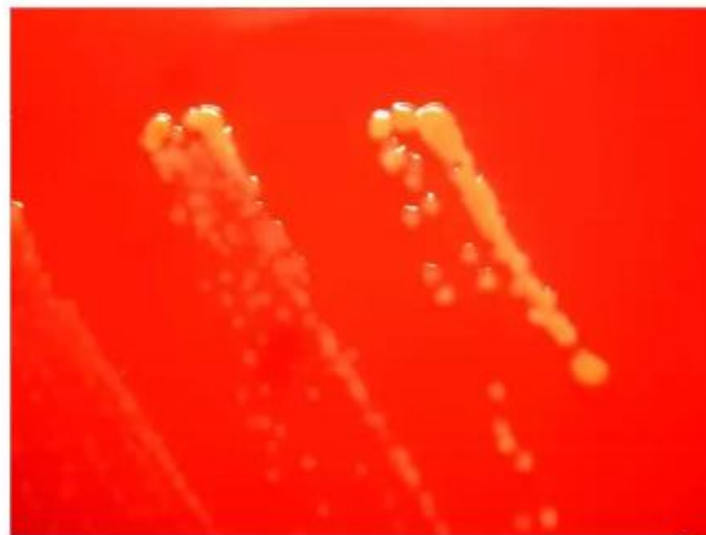
Američka trulež pčelinjeg legla

-je veoma kontagiozno oboljenje, **primarno pčelinjeg legla**, koje počinje i održava se kao enzootija, kasnije dobijajući veće razmere usled inficiranja čitavog pčelinjaka i pčelinjaka u okruženju.

Uzročnik američke truleži je sporogena bakterija ***Penibacillus larvae***



P. larvae svetlosnim mikroskopom
bojenje po Gramu



Izgled kolonija *P. larvae* na
hranjivoj podlozi



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Uzročnik evropske truleži je asporogena bakterija **Melissococcus pluton**

↕
(**Streptococcus pluton**)

U nekim krajevima evropska trulez može da predstavlja veći problem od američke truleži

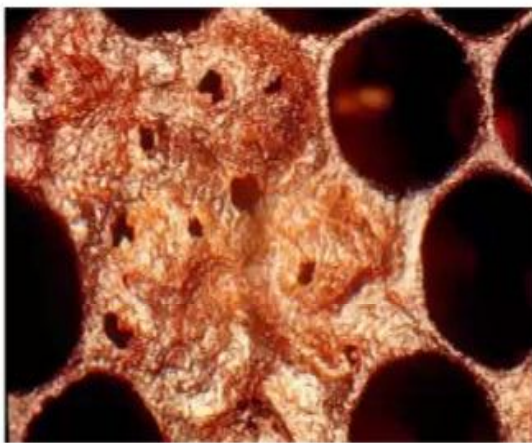


M. pluton svetlosnim mikroskopom
bojenje po Gramu

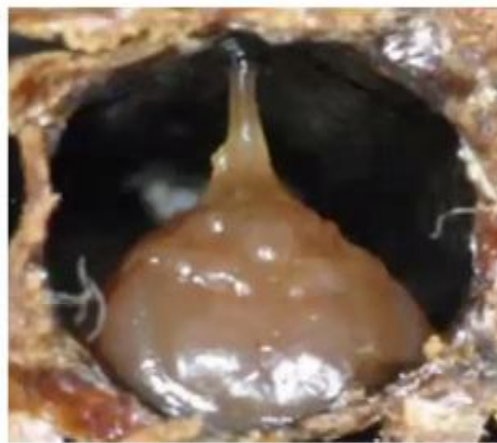


Klinička slika američke truleži

- vrlo **neprijatan, oštar miris** koji se širi iz košnice a potiče od ramova sa leglom
- promena boje, integriteta i konfiguracije poklopaca na leglu (postaju tamniji, ulegnuti i perforirani)
- promena boje i konzistencije larvi- biserno bela → svetlo braon → rastegljiva boje čokolade
- Nakon 2 meseca ostatak larve se u potpunosti sašusi i vidi se na dnu ćelije kao **sasušena krasta**



Perforirani poklopci



Konzistencija i boja larve



Ropiness-ov test





Deformisana krila





Hronična paraliza



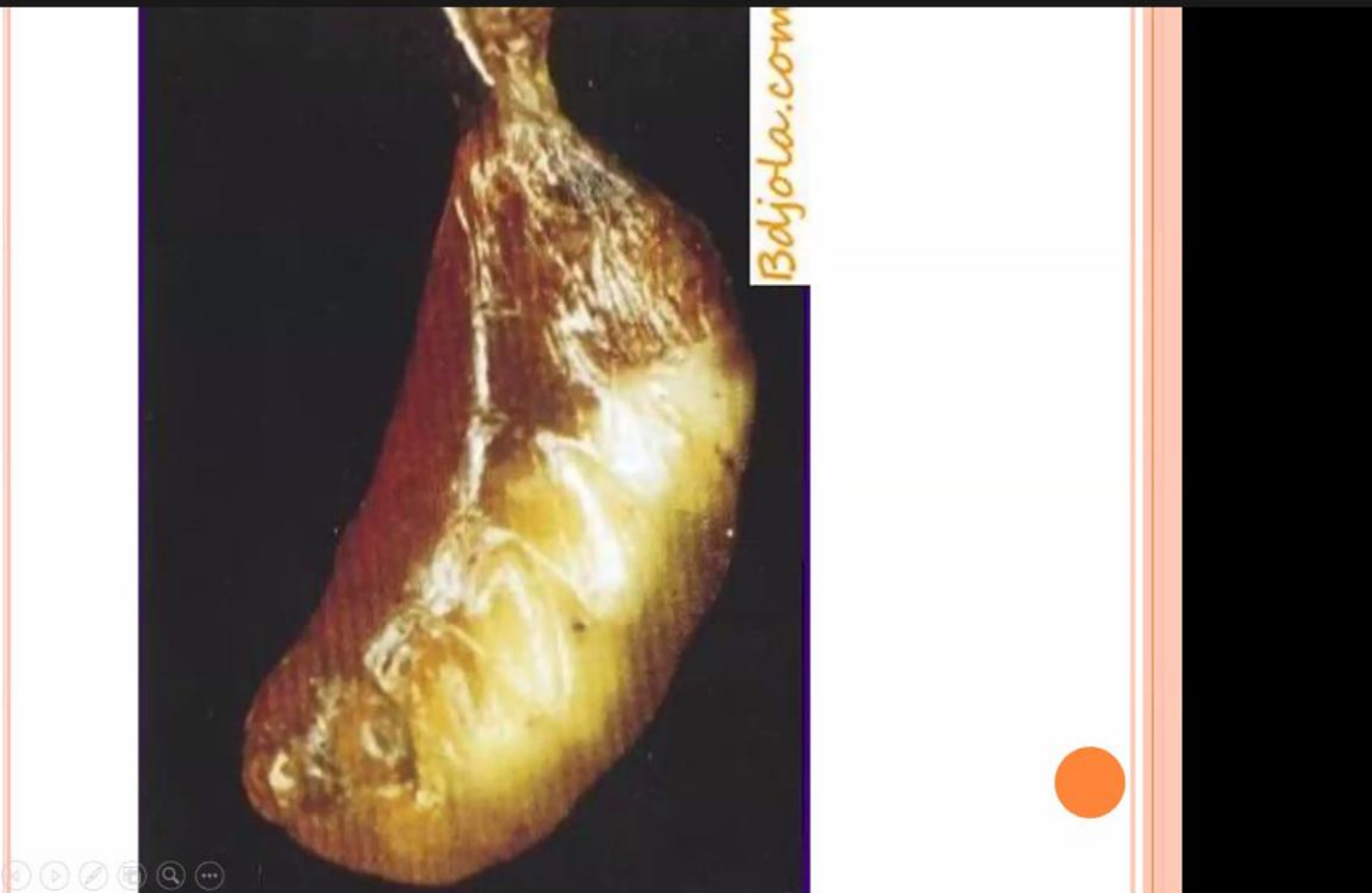
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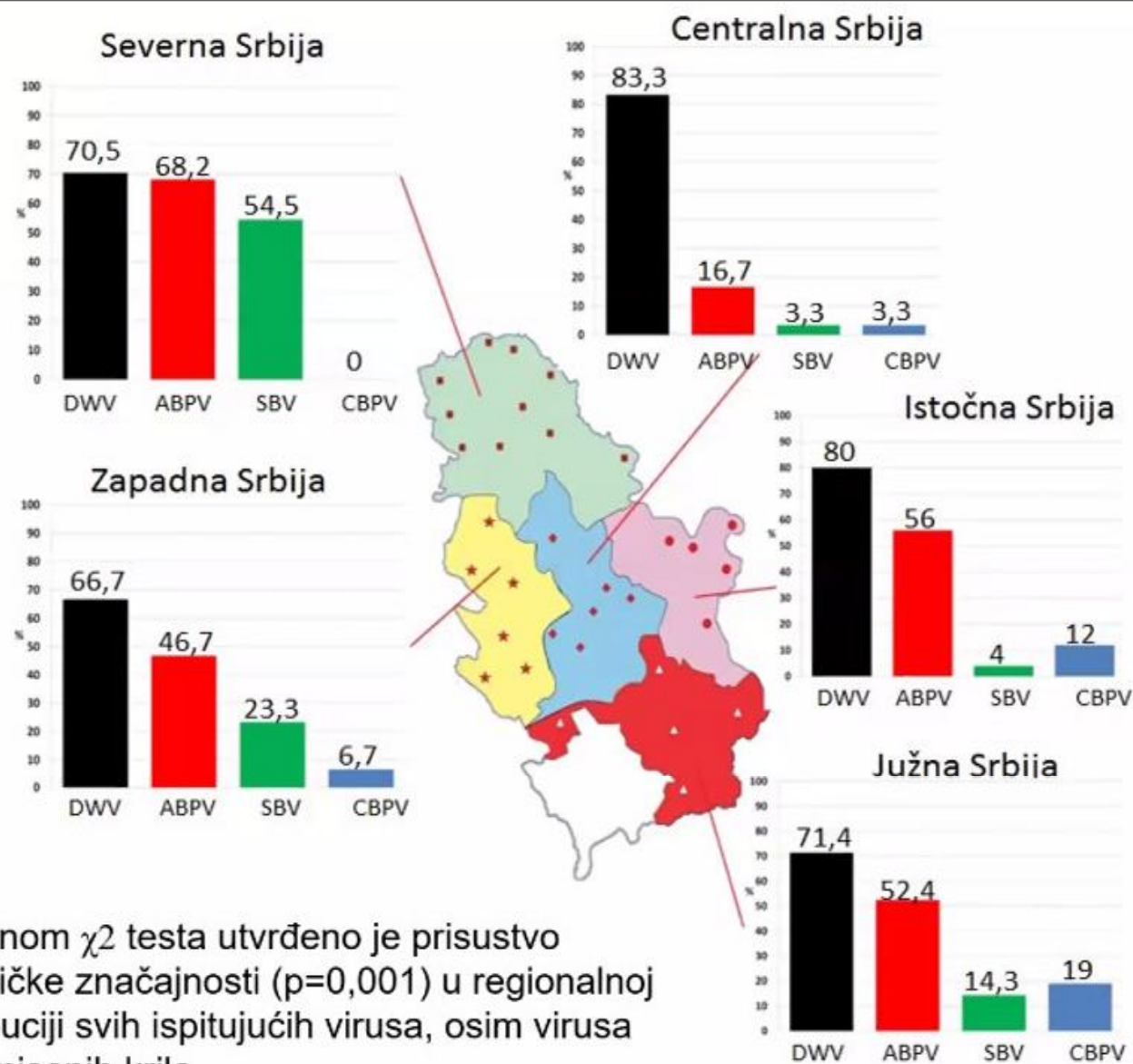


Akutna paraliza



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Primenom χ^2 testa utvrđeno je prisustvo statističke značajnosti ($p=0,001$) u regionalnoj distribuciji svih ispitujućih virusa, osim virusa deformisanih krila.



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REZULTATI DRUGIH...

APPLIED AND ENVIRONMENTAL MICROBIOLOGY, Apr. 2006, p. 2414–2420
0099-2240/06/\$08.00+0 doi:10.1128/AEM.72.4.2414–2420.2006
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Occurrence of Six Honeybee Viruses in Diseased Austrian Apiaries

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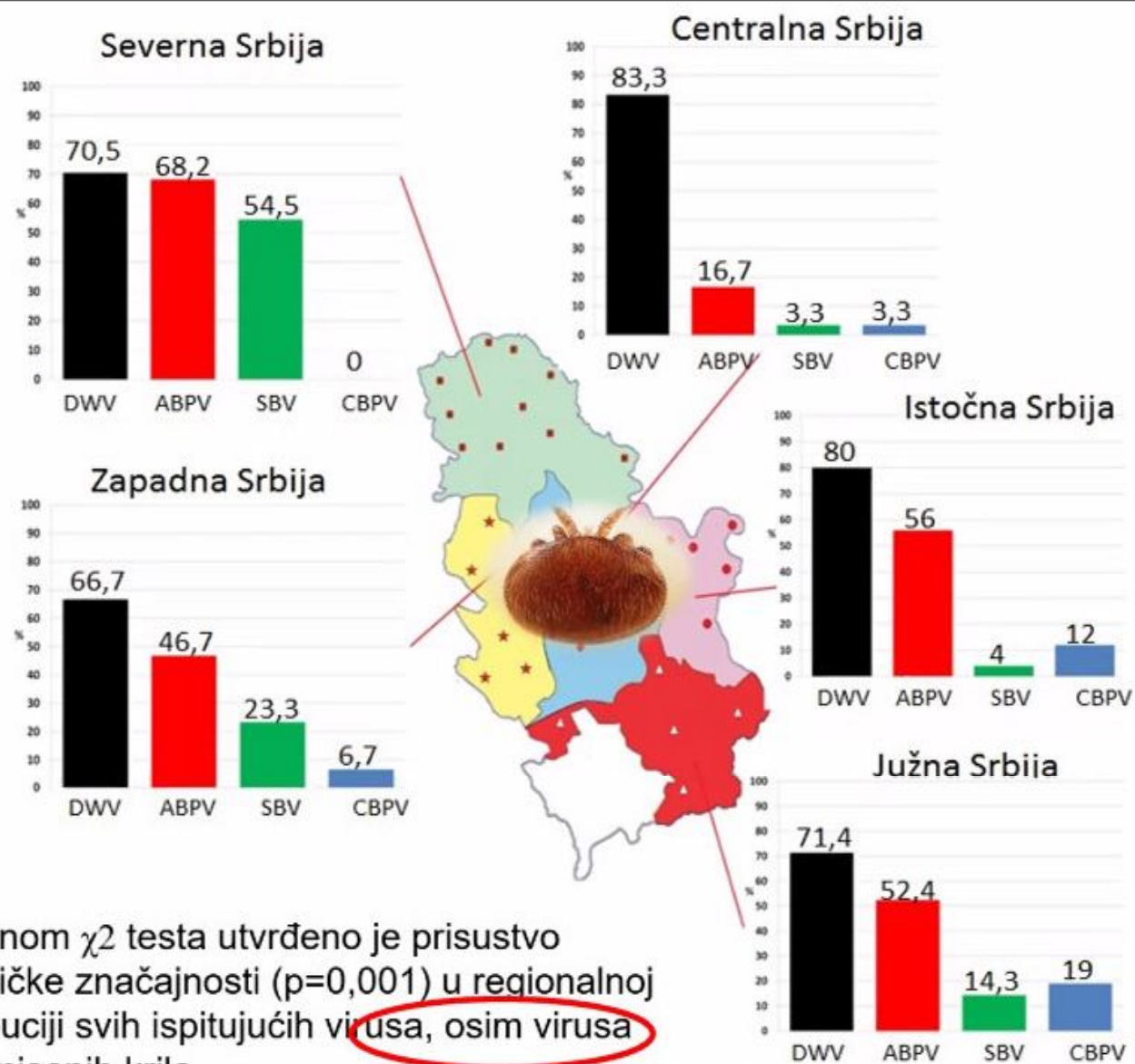
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Prisutni virusi – 99% uzoraka

- DWV – 91%
- ABPV – 68%
- SBV – 49%
- CBPV – 10%
- bez virusa 1%



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Genersch i Aubert, 2010; Dainat i sar., 2012; Martin i sar., 2013



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PREPORUKE

KONTROLA INFESTACIJE

TRETMAN



PREPORUKA



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