



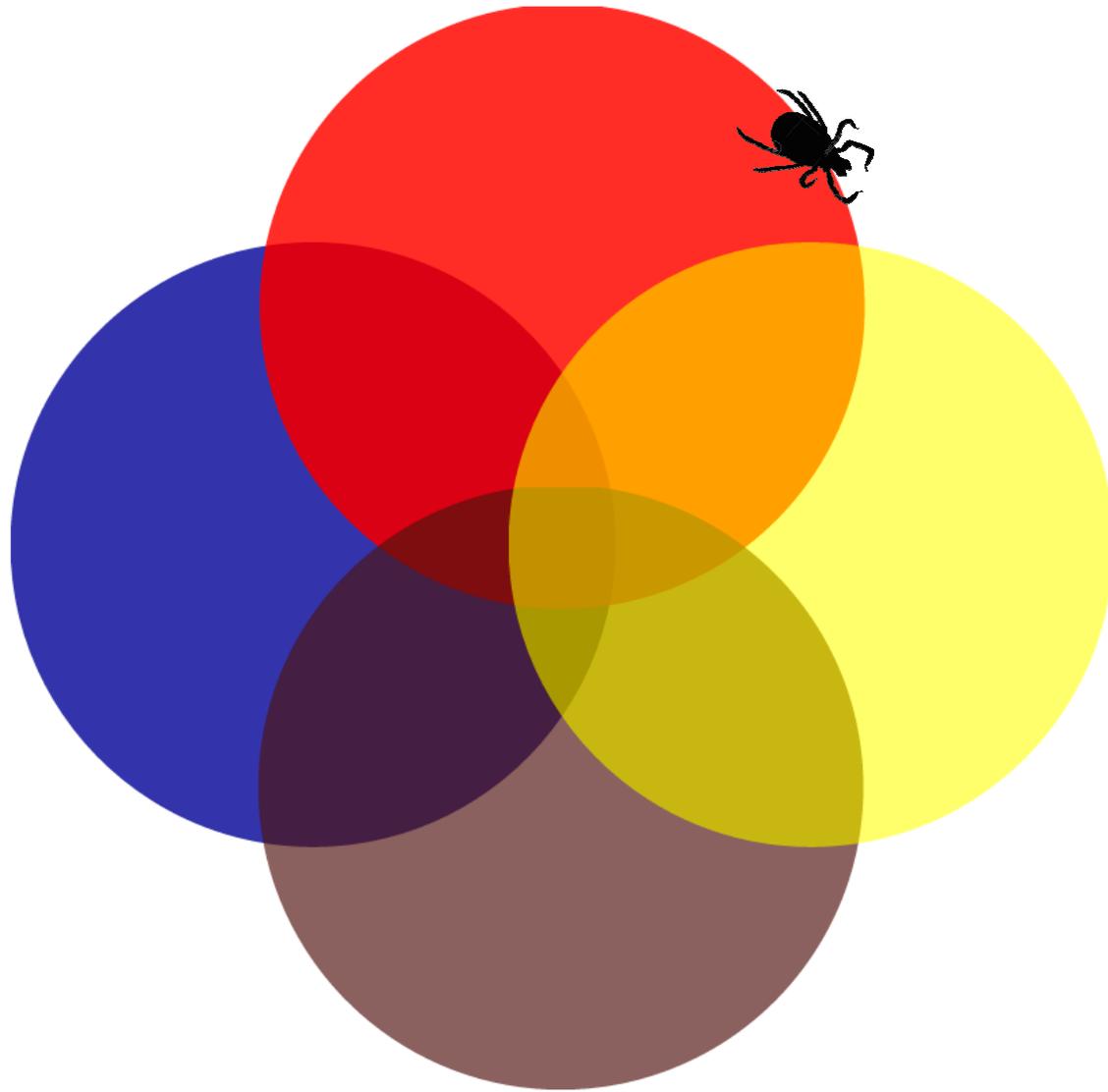
RMSF on the Border

Where Children, Contagion and Climate Converge

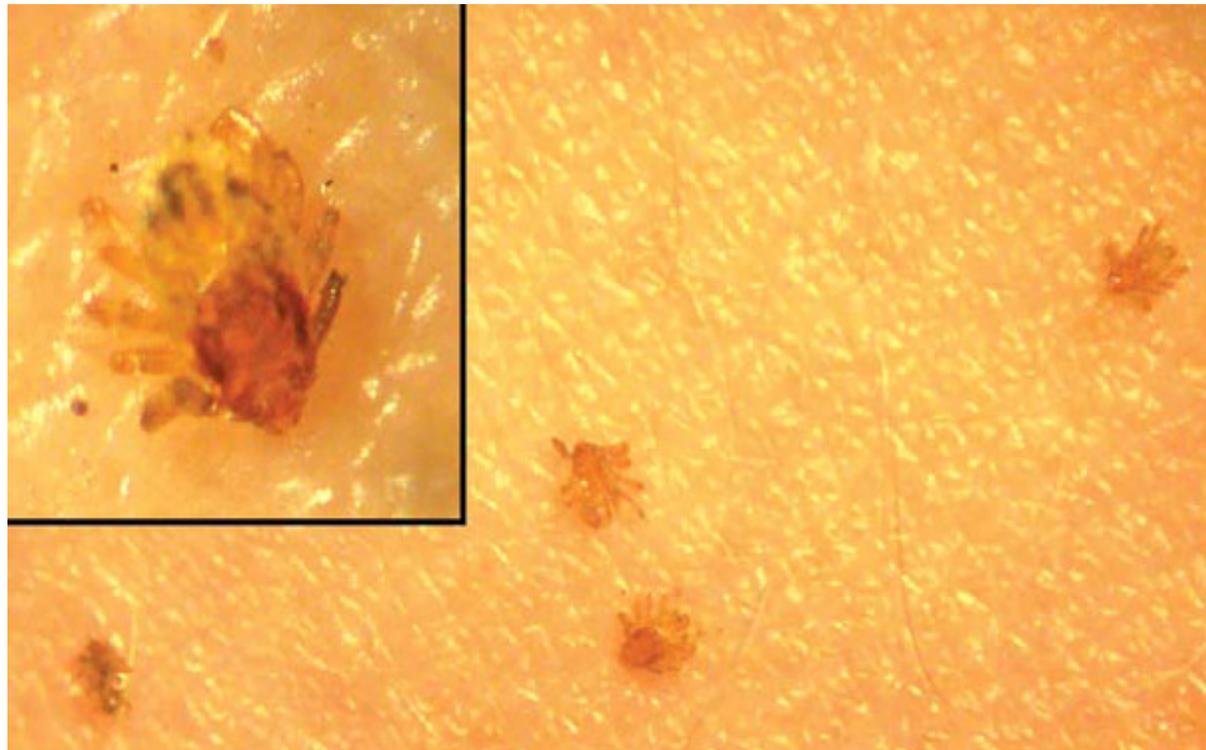
Lisa Villarroel, MD MPH



Health and Wellness for all Arizonans

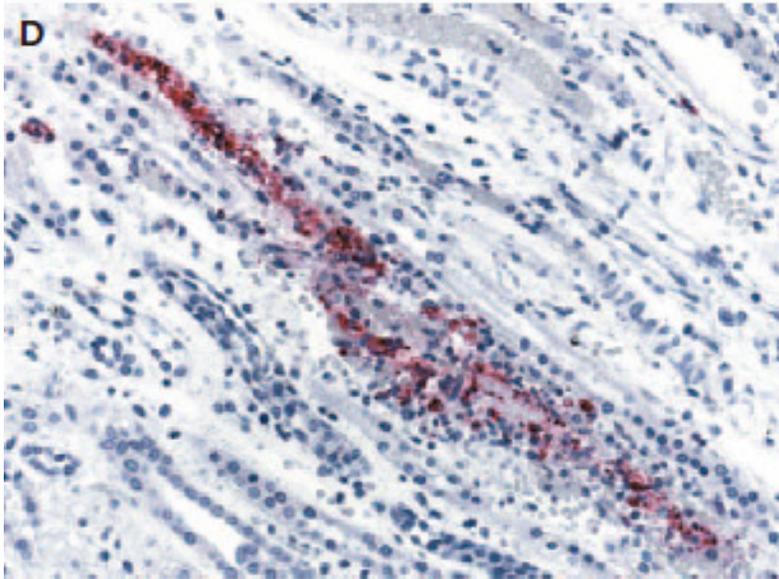


Rocky Mountain spotted fever is spread by ticks...



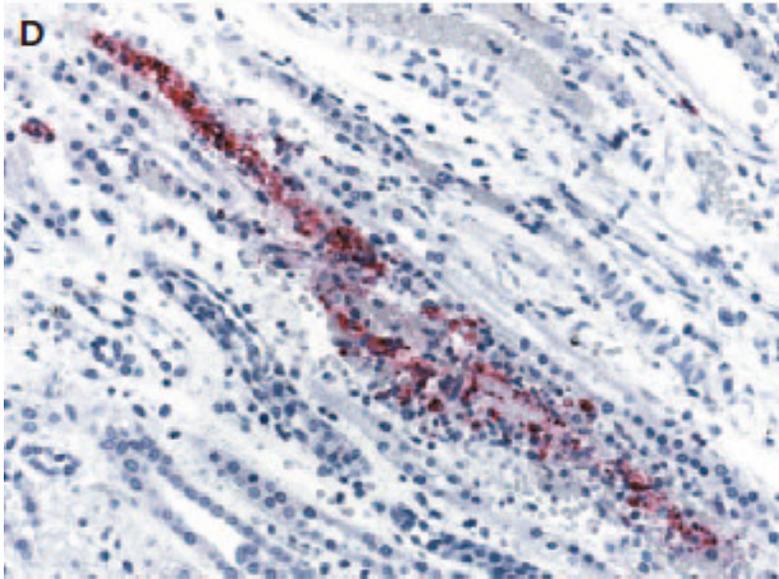
Parola, 2008

Rocky Mountain spotted fever is spread by ticks...



Demma, 2005

Rocky Mountain spotted fever is spread by ticks...

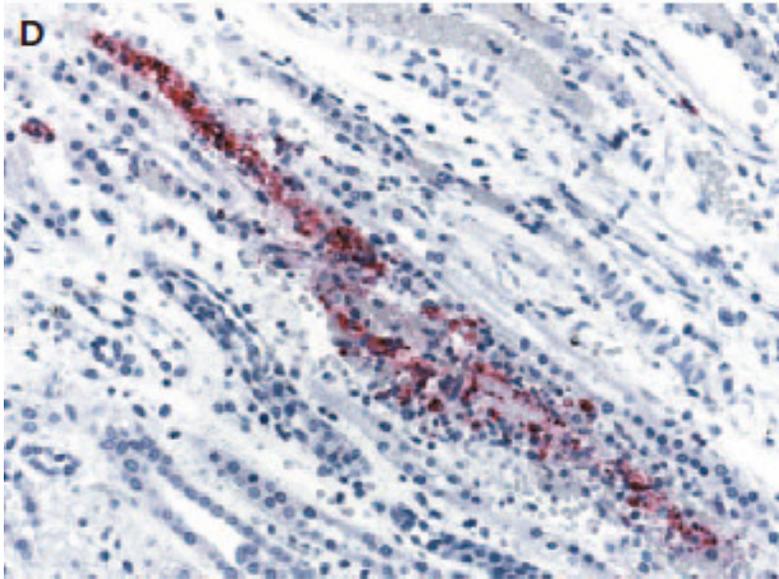


Demma, 2005



Alvarez-Hernandez, 2015

Rocky Mountain spotted fever is spread by ticks...

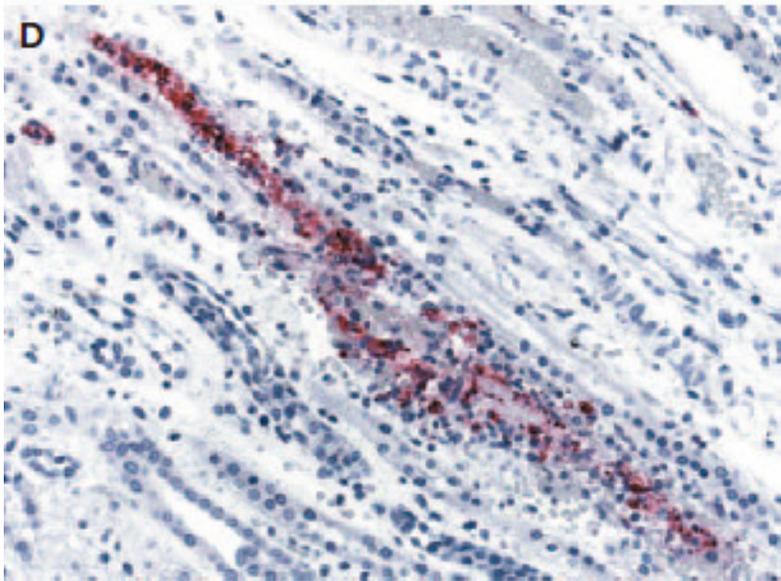


Demma, 2005



Dumler, 2005

Rocky Mountain spotted fever is spread by ticks...

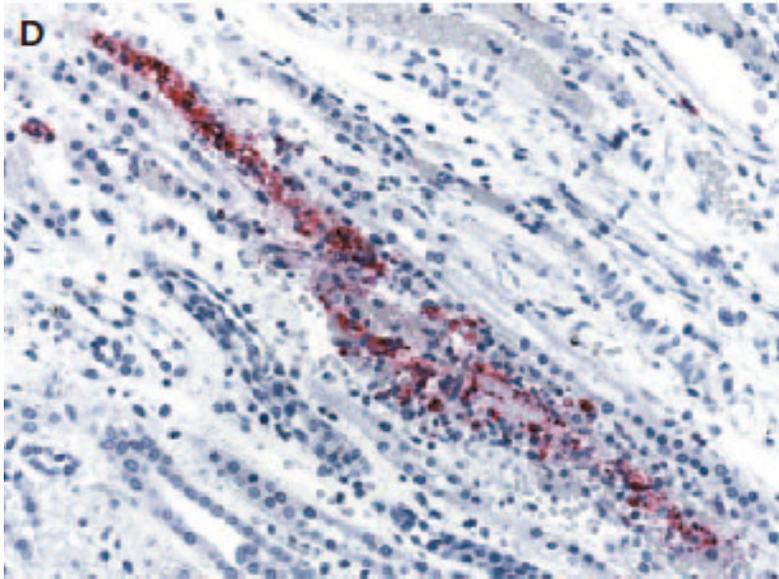


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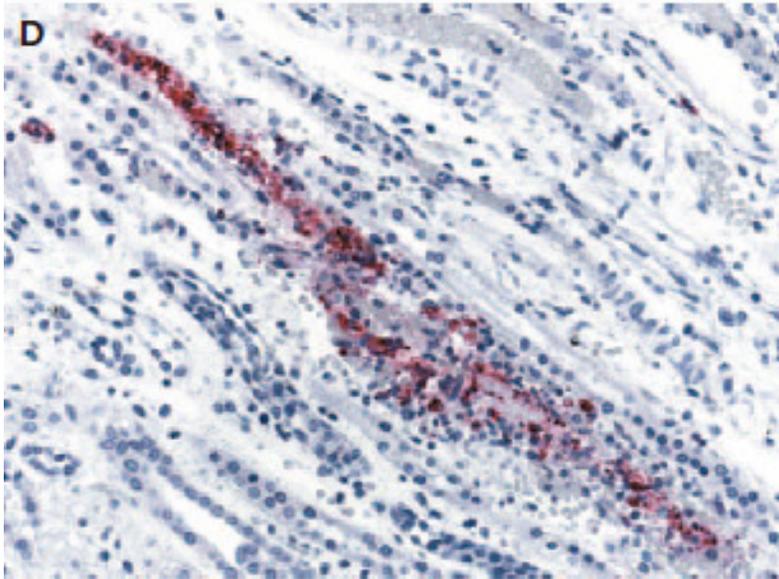


Demma, 2005



GPC, 2013

Rocky Mountain spotted fever is spread by ticks...



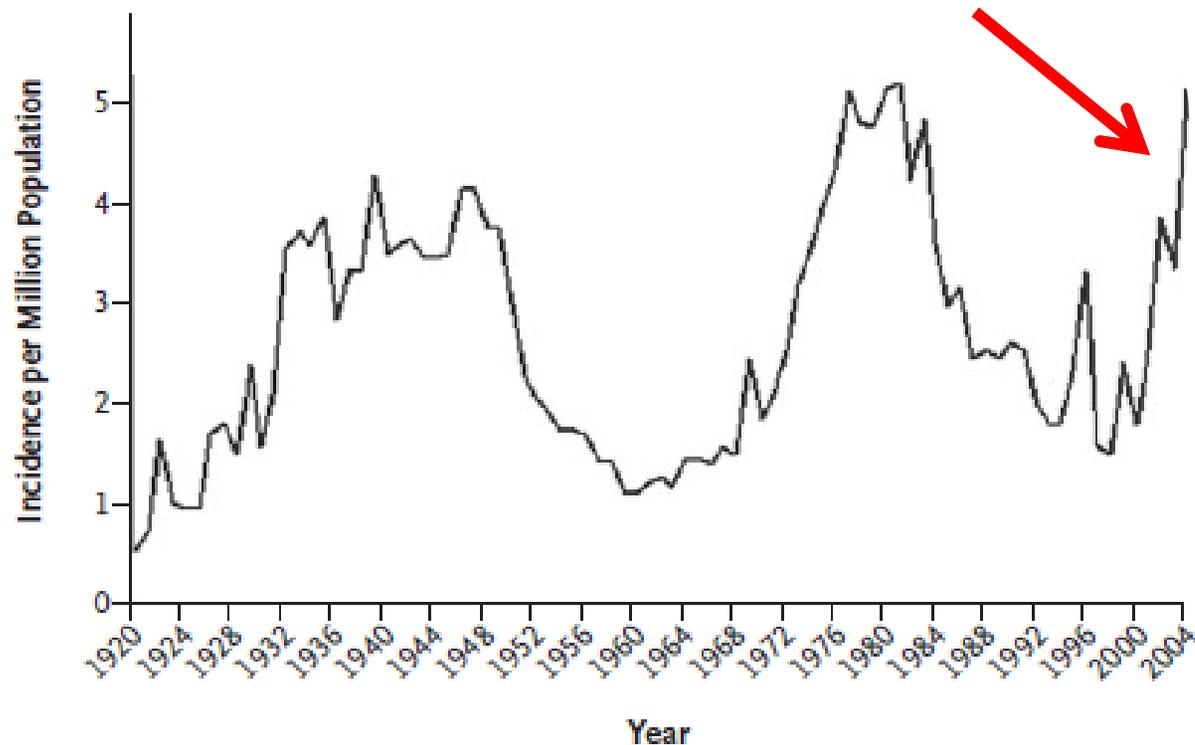
Demma, 2005



Alvarez-Hernandez, 2015

...and can be fatal. 

RMSF in the US is increasing...



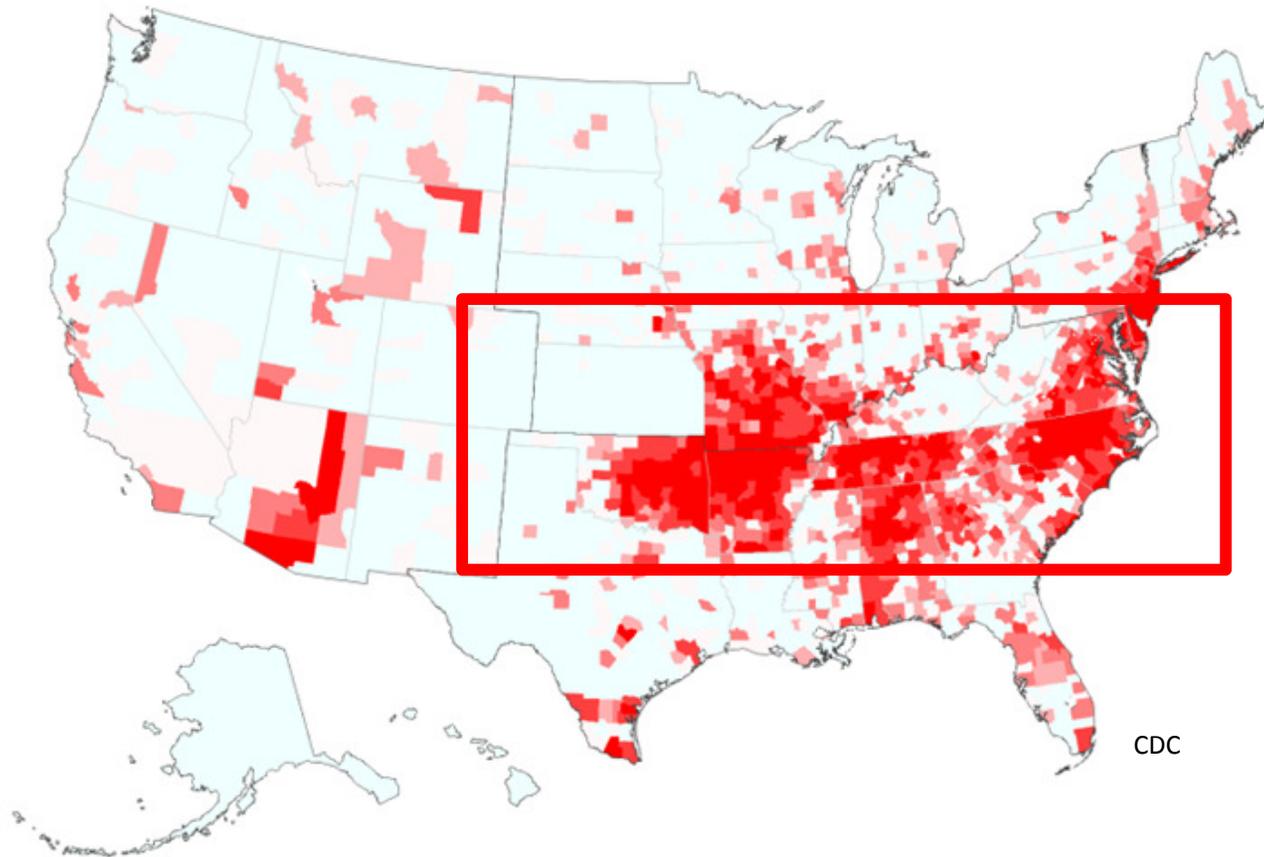
Incidence of Rocky Mountain Spotted Fever in the United States since 1920.

Dumler, 2005

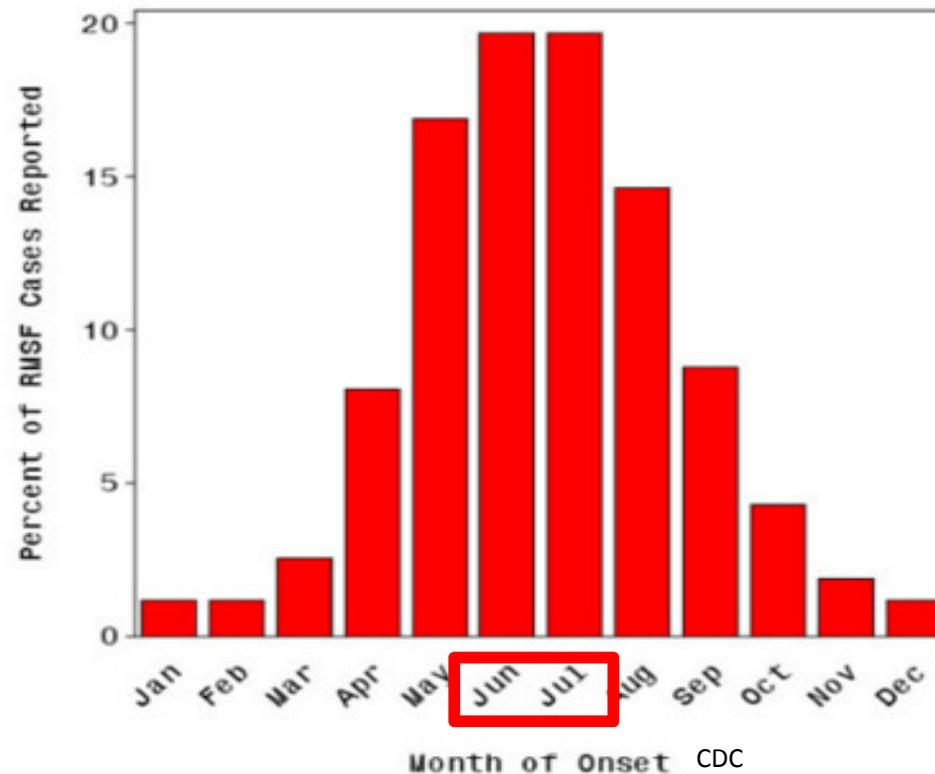
RMSF in the US is increasing, spread by two ticks...



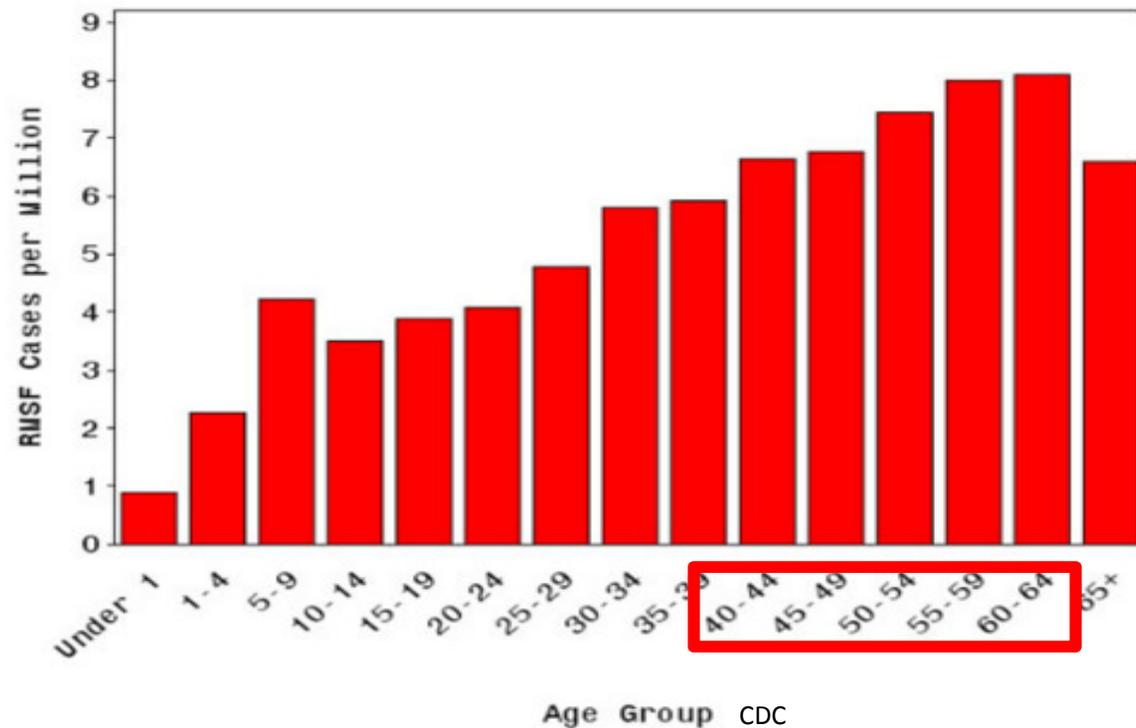
RMSF in the US is increasing, spread by two ticks, affecting mid-USA...



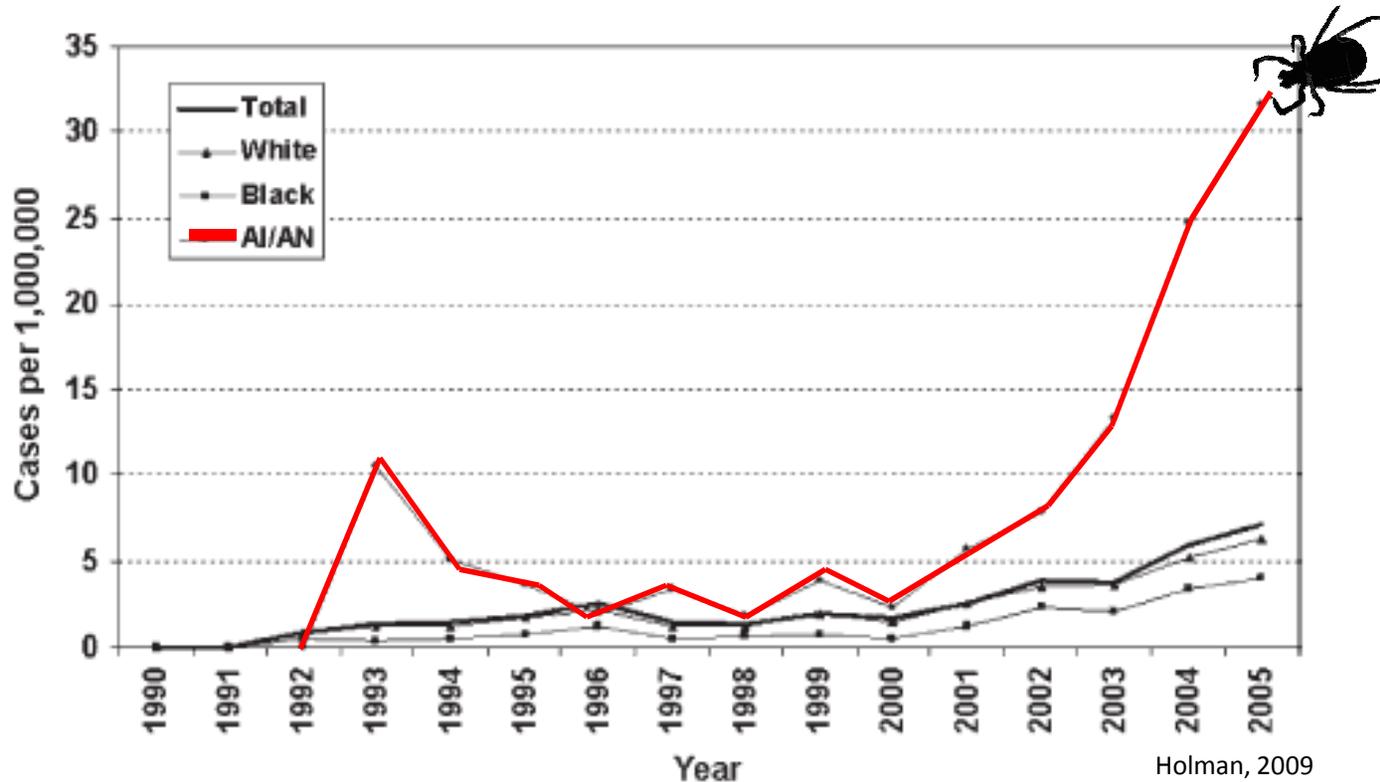
RMSF in the US is increasing, spread by two ticks, affecting mid-USA, in summer...



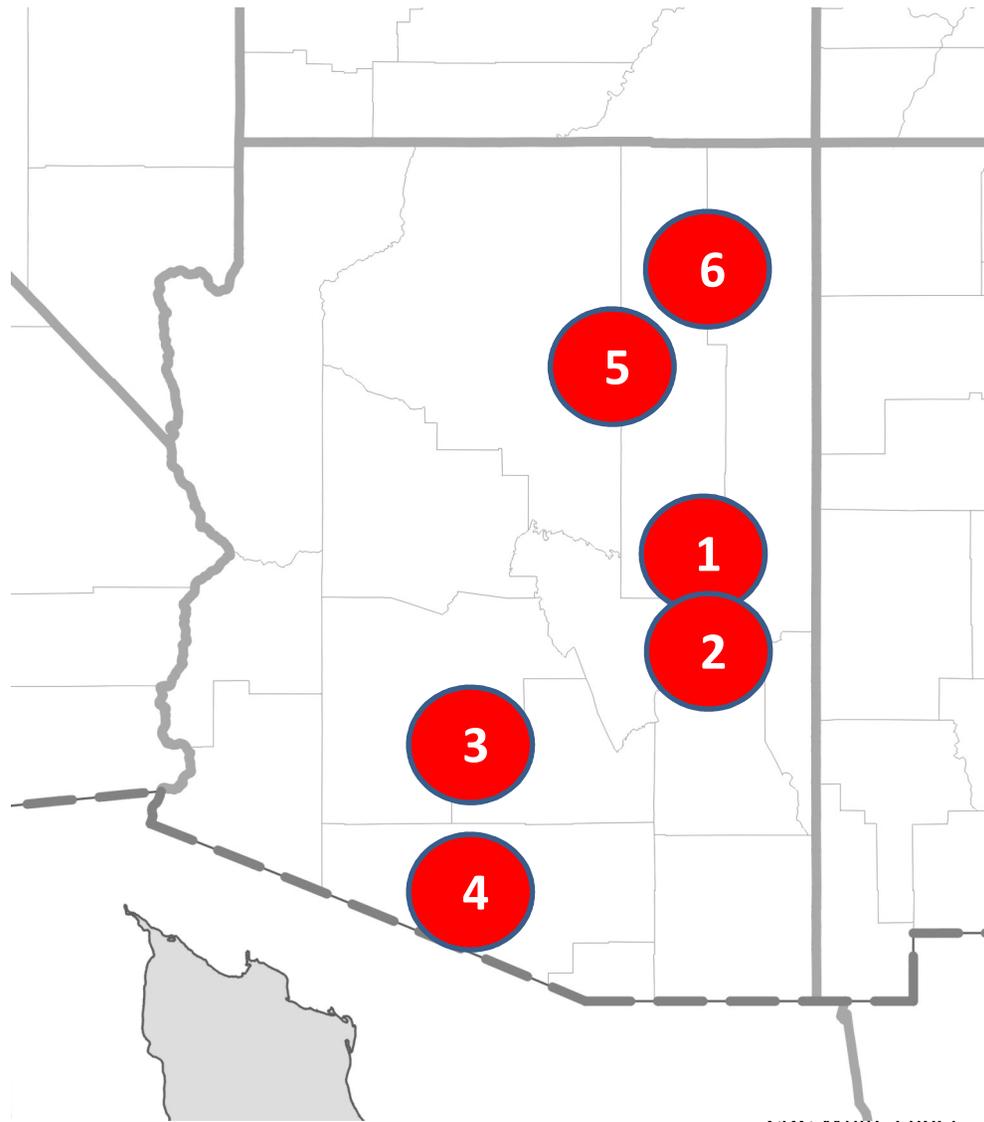
RMSF in the US is increasing, spread by two ticks, affecting mid-USA, in summer, in adults...



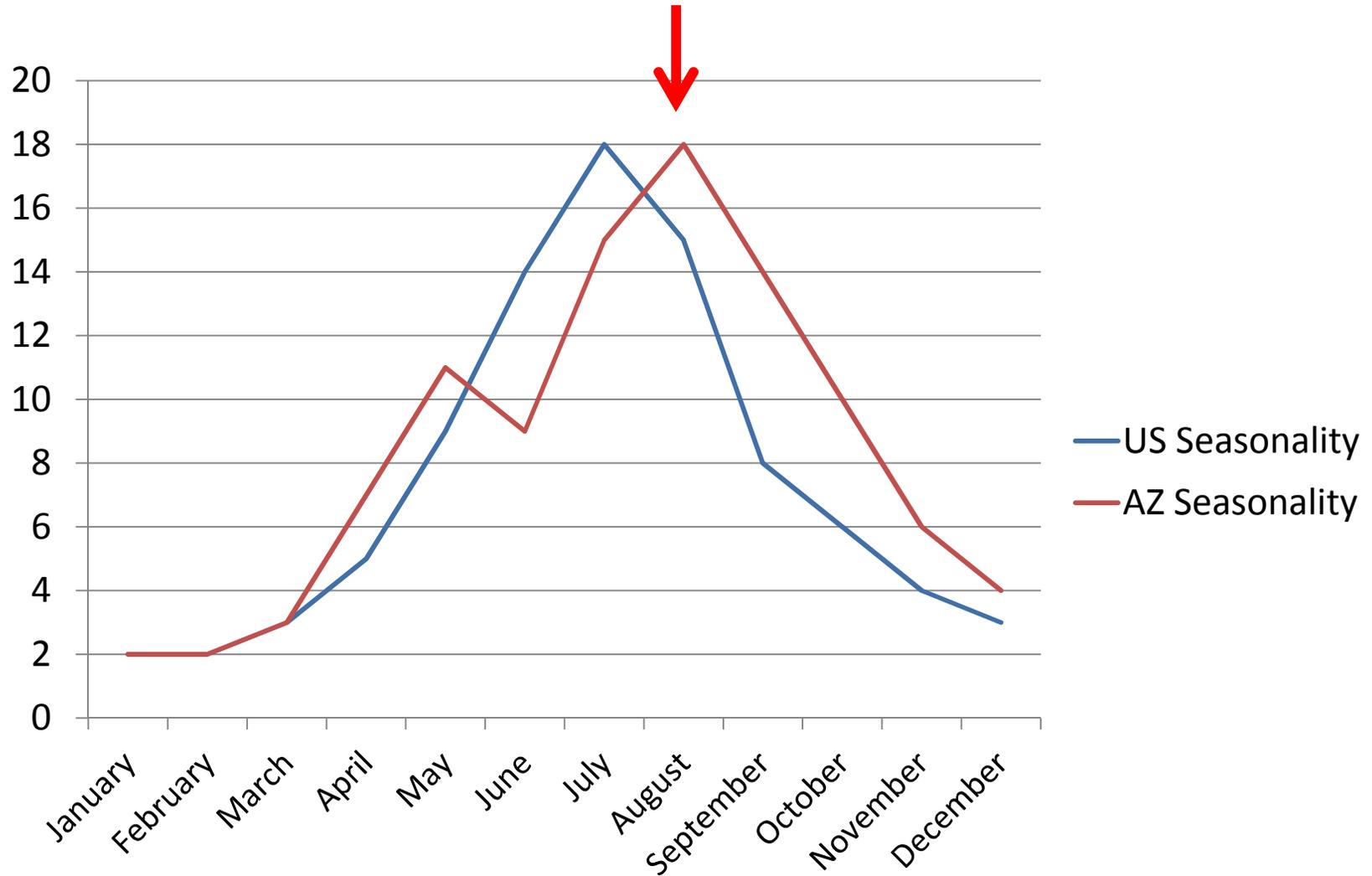
RMSF in the US is increasing, spread by two ticks, affecting mid-USA, in summer, in adults + American Indians.



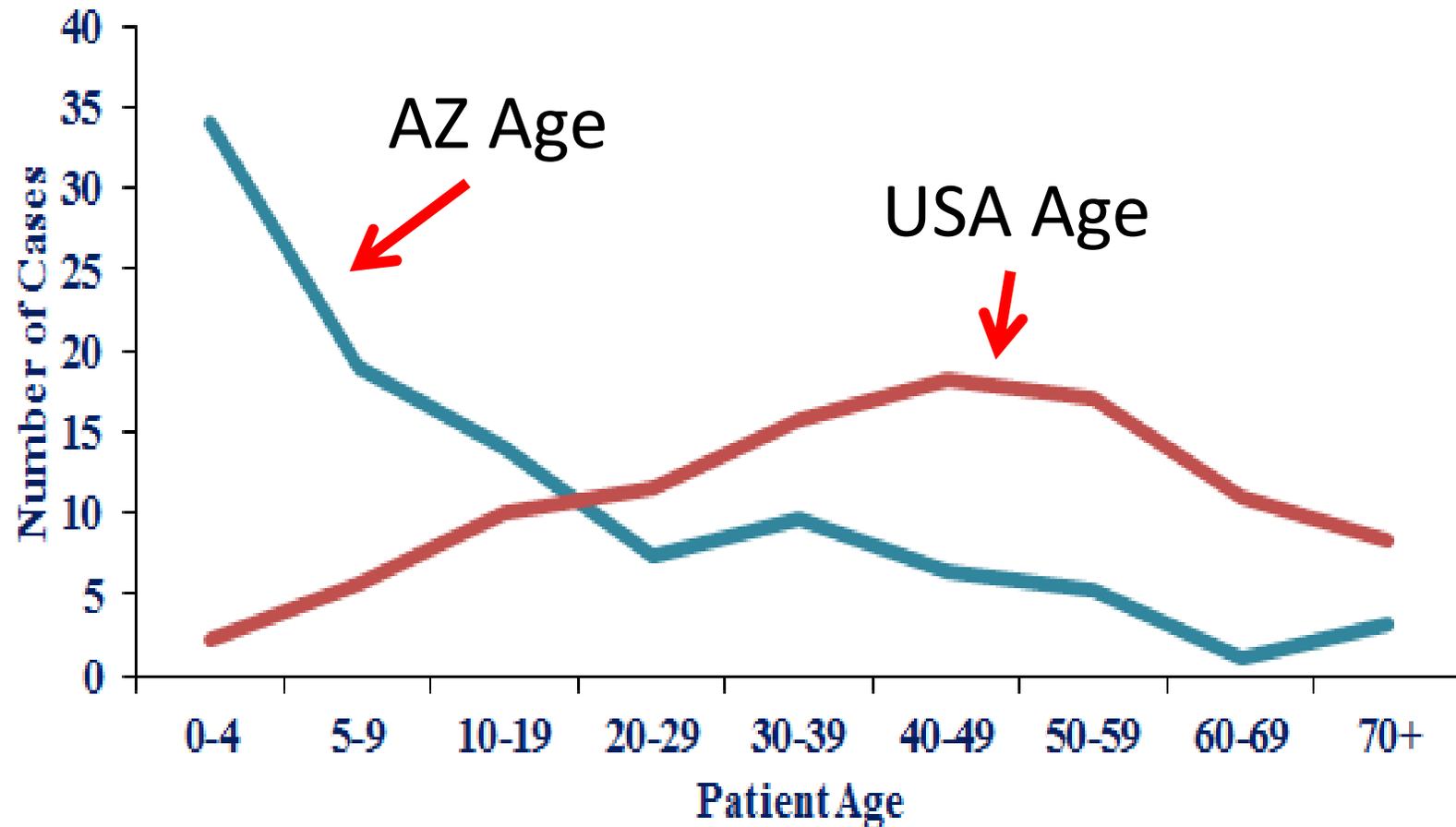
RMSF in Arizona...



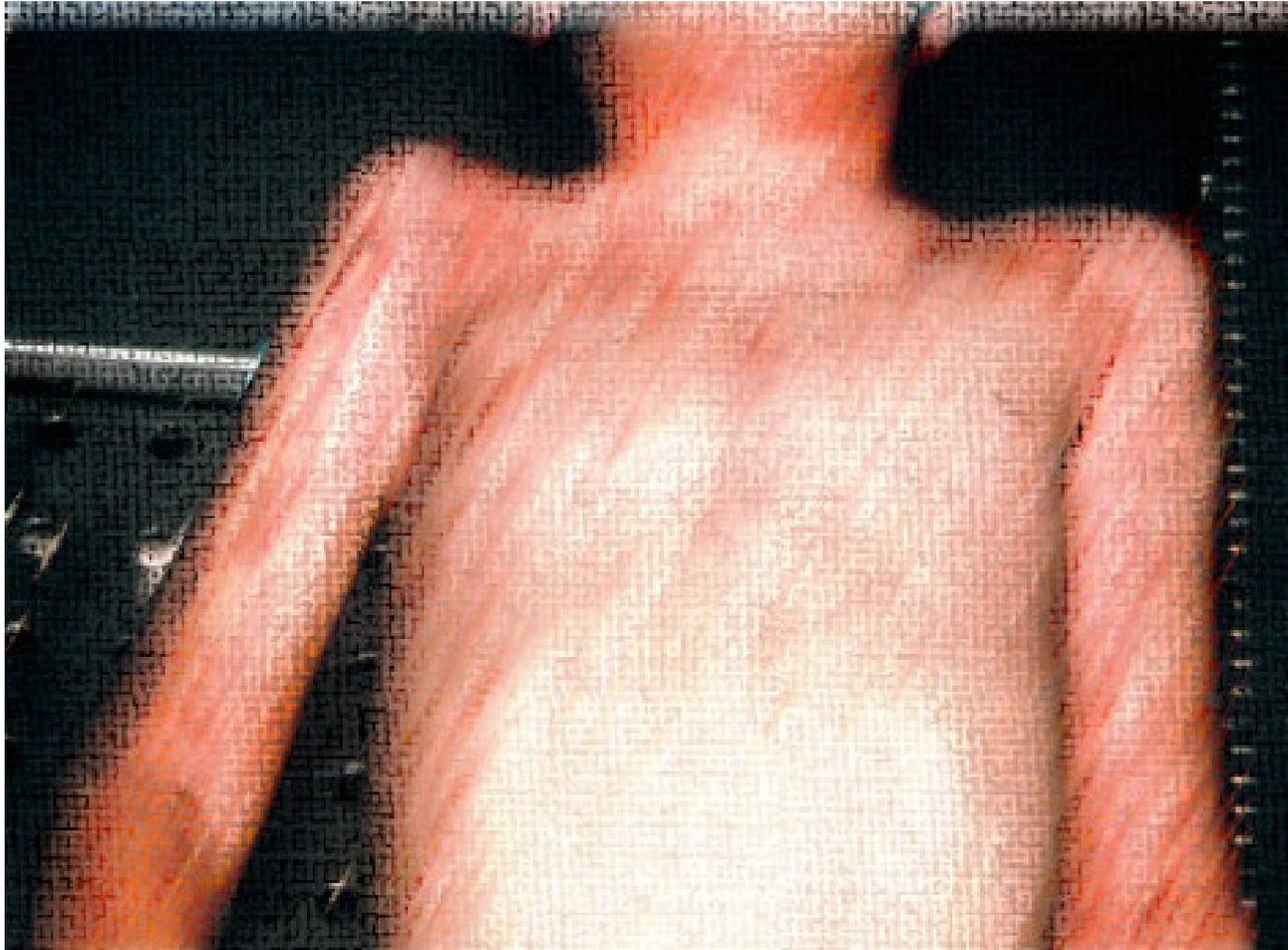
RMSF in Arizona is *different*.



RMSF in Arizona is *different*.



RMSF in Arizona is *different*.



Dumler, 2005

RMSF in Arizona is *different*.



Maricopa County
Department of Public Health
Division of Disease Control
Office of Epidemiology & Data Services

FAX TRANSMITTAL

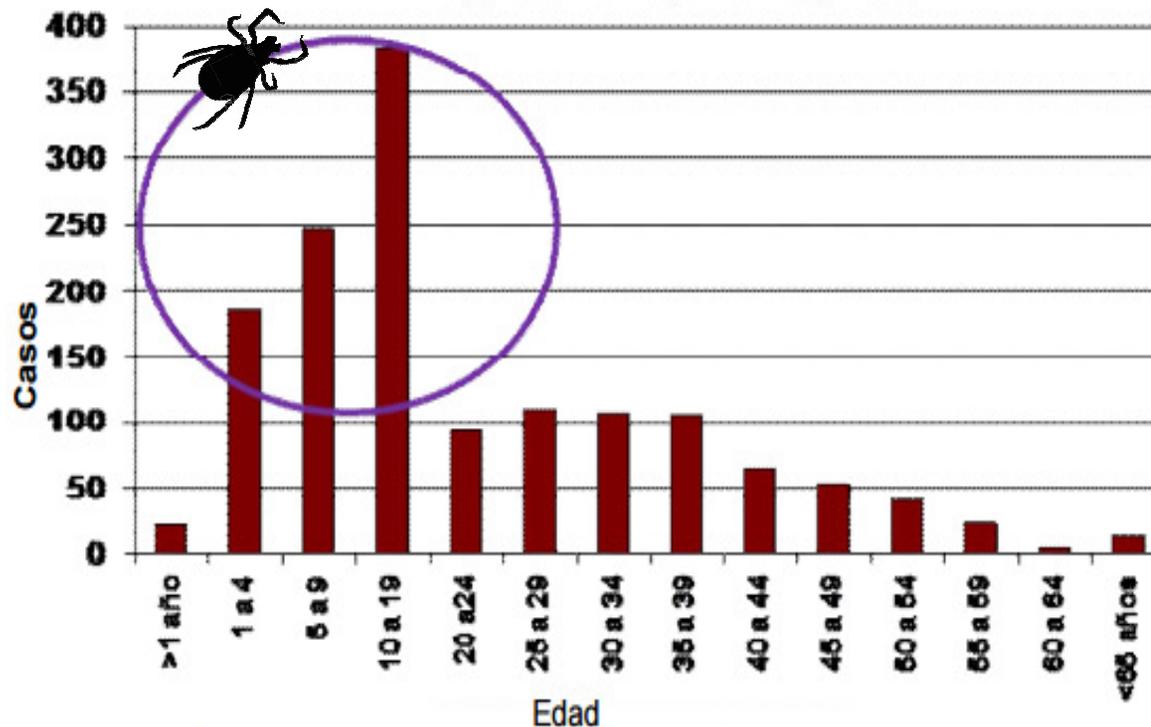
| | |
|---------------------|--------------------------------------|
| To: | From: |
| Company/Dept: ADHS | Company/Dept: MCDPH Epidemiology |
| FAX: 344-3199 PHONE | Fax: 602-372-2610 Phone: 372-2628 |
| Re: Medical Records | Date: # of pages With cover 47 |

→ Fatal RMSF-

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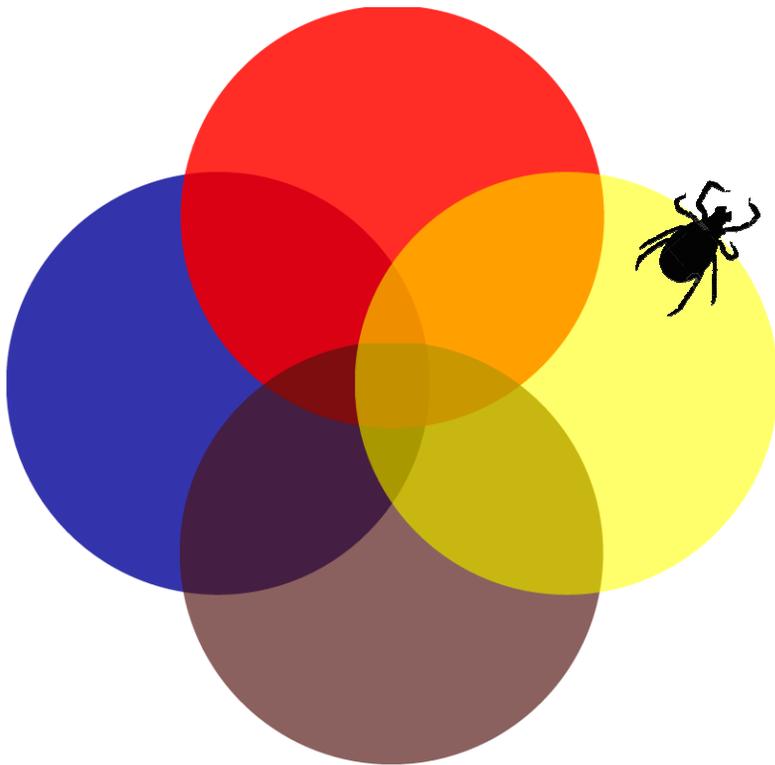
RMSF in Arizona/Mexico is *different*.

GRÁFICA 2. Casos sospechosos por grupo de edad
Baja California, México, 2009



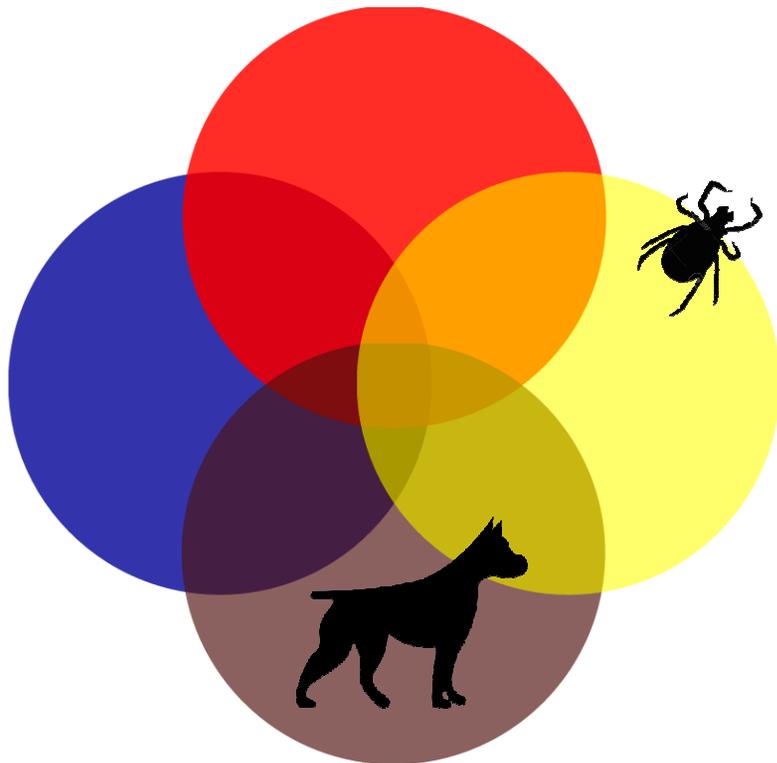
FUENTE: Encuesta de Rickettsiosis 2009/Dpto. Epidemiología/
Servicios de Salud Pública de Baja California.

RMSF in Arizona/Mexico is due to a complicated set of circumstances.

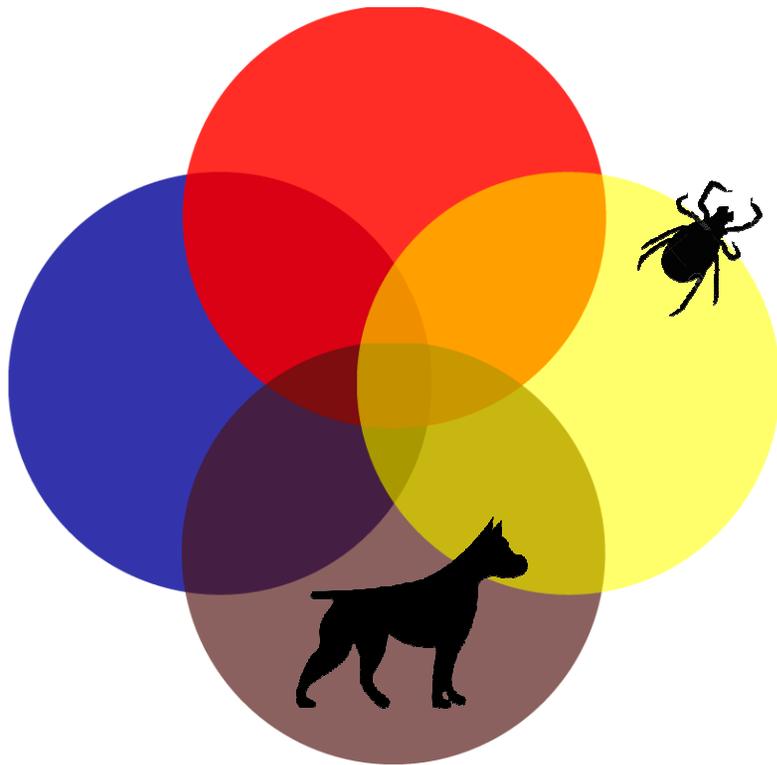


CDC

RMSF in Arizona/Mexico is due to a complicated set of circumstances.

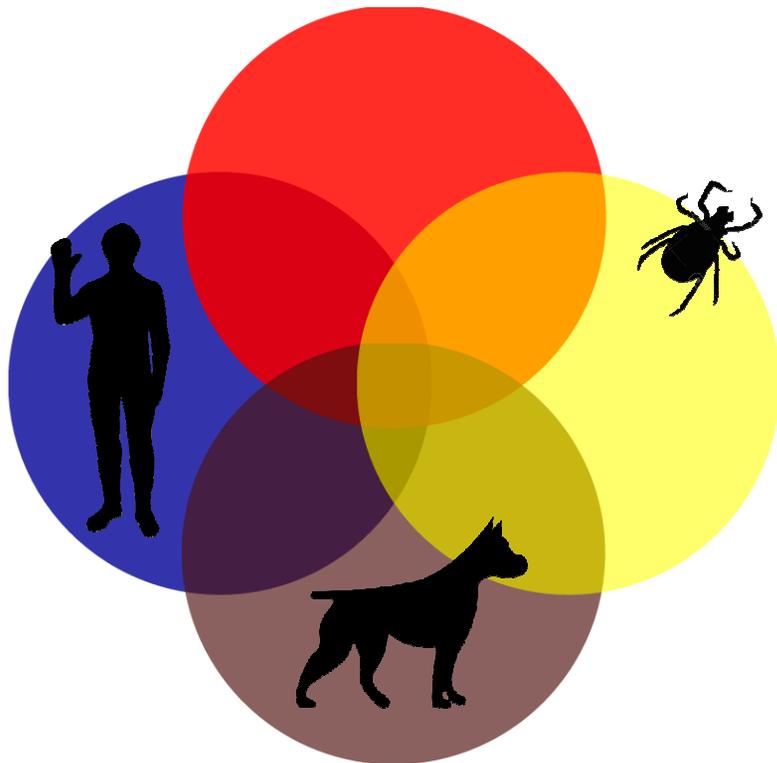


RMSF in Arizona/Mexico is due to complicated set of circumstances.



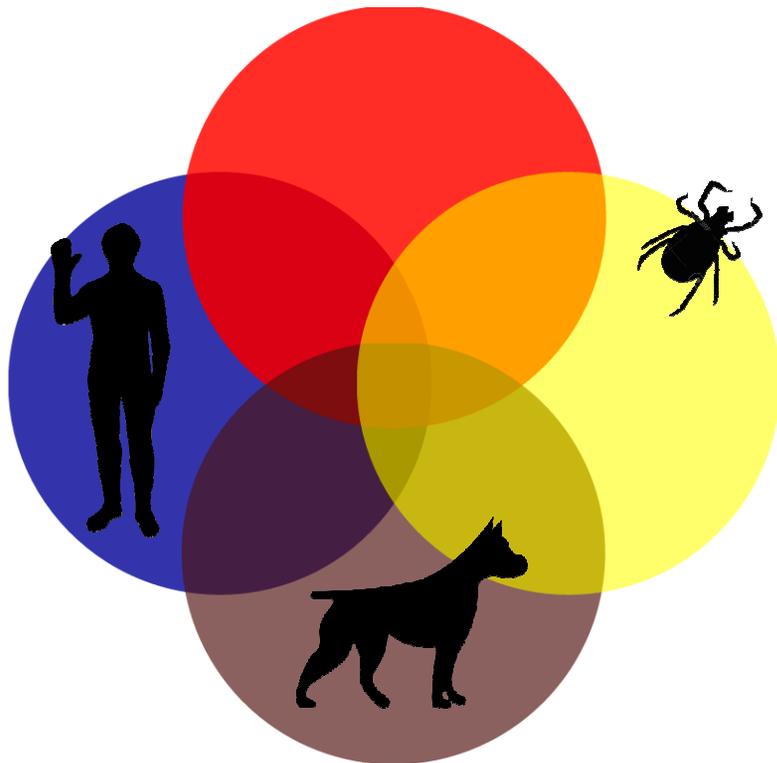
Yaglom PPT, 2015

RMSF in Arizona/Mexico is due complicated set of circumstances.

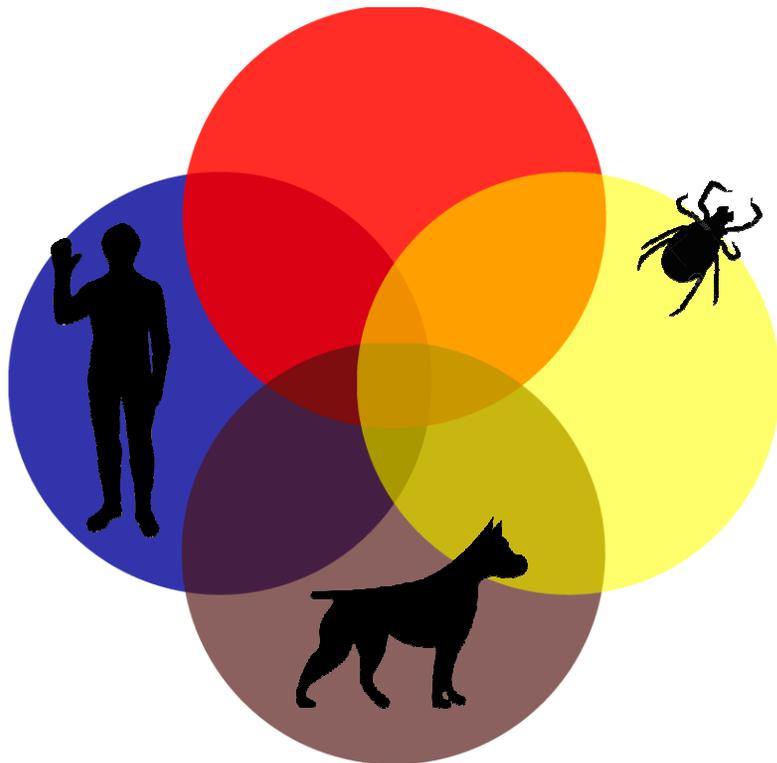


Bergman PPT, 2015

RMSF in Arizona/Mexico is due to a complicated set of circumstances.



RMSF in Arizona/Mexico is due complicated set of circumstances.

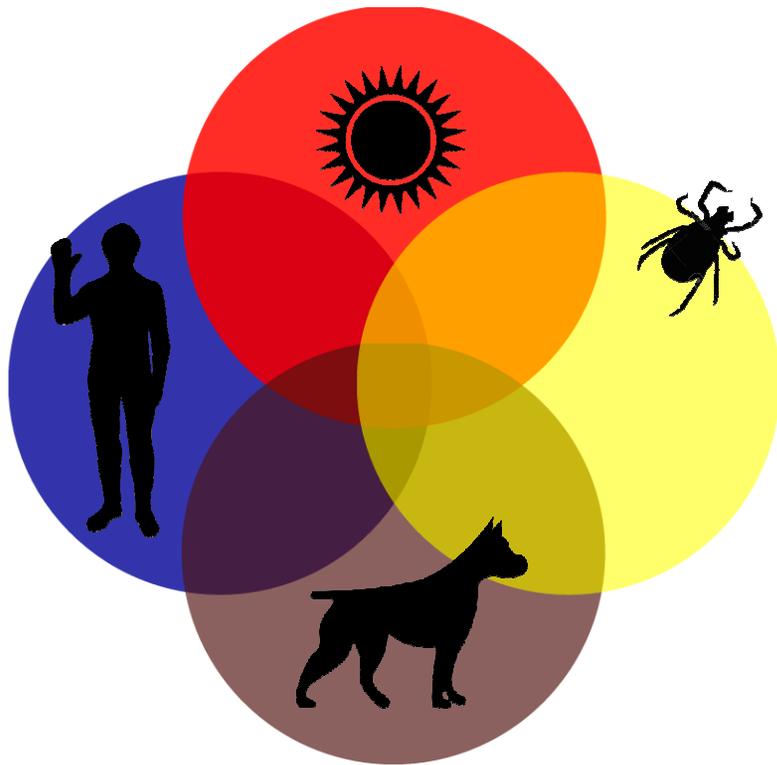


CDC

RMSF in Arizona/Mexico will be **challenging** to resolve.



RMSF in Arizona/Mexico is due to a complicated set of circumstances.



Wheeler, Creative Commons

RMSF in Arizona/Mexico will be **challenging** to resolve.



RMSF in Arizona/Mexico will be **challenging** to resolve.

Fumigarán Santorales casa por casa



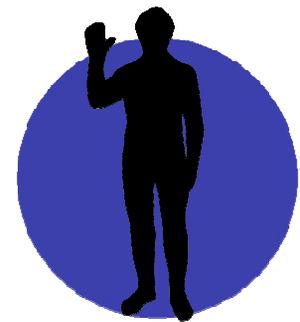
RMSF in Arizona/Mexico will be **challenging** to resolve.



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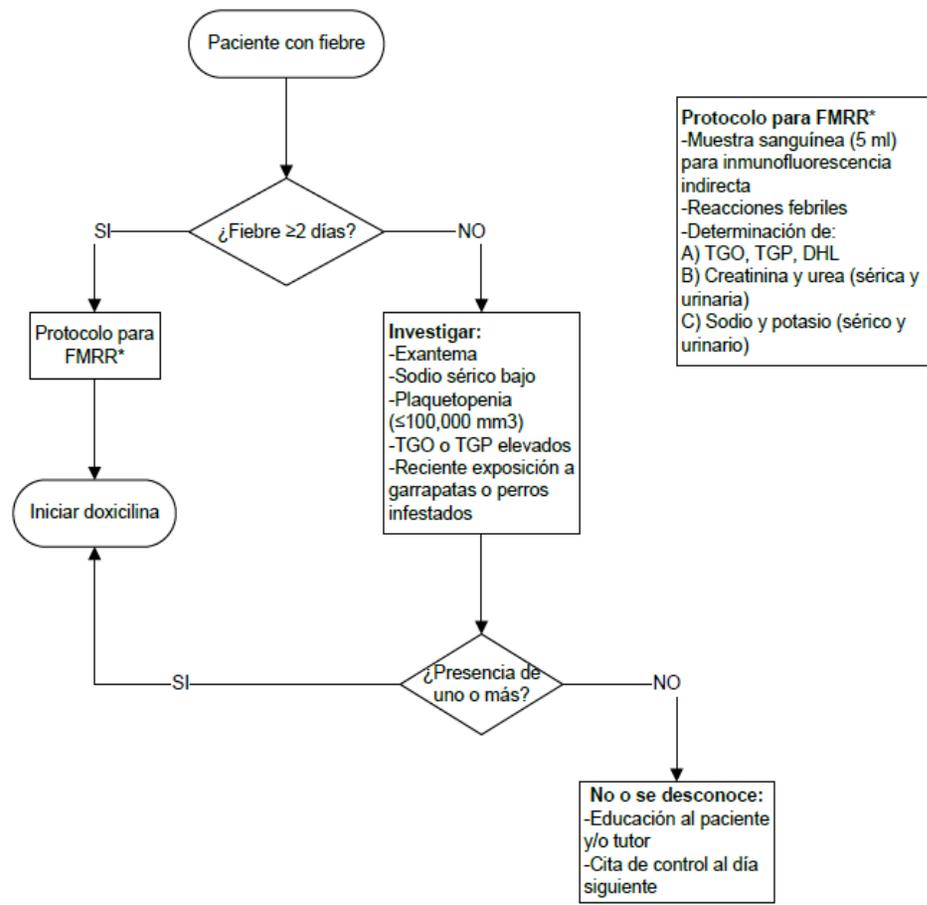
Bergman PPT, 2015



RMSF in Arizona/Mexico will be **challenging** to resolve.



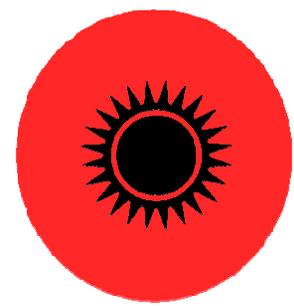
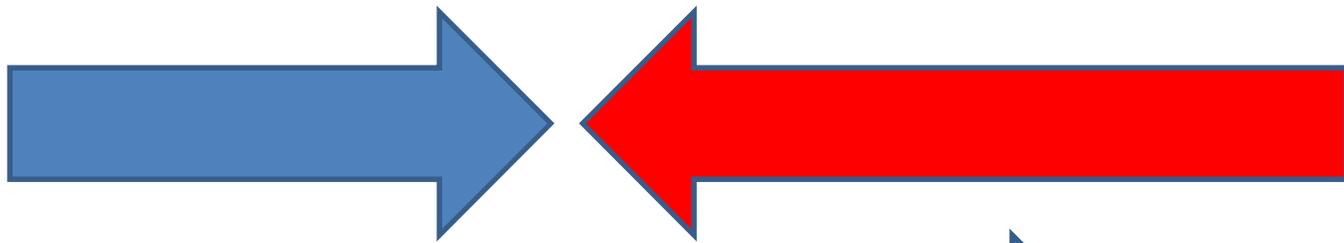
RMSF in Arizona/Mexico will be **challenging** to resolve.



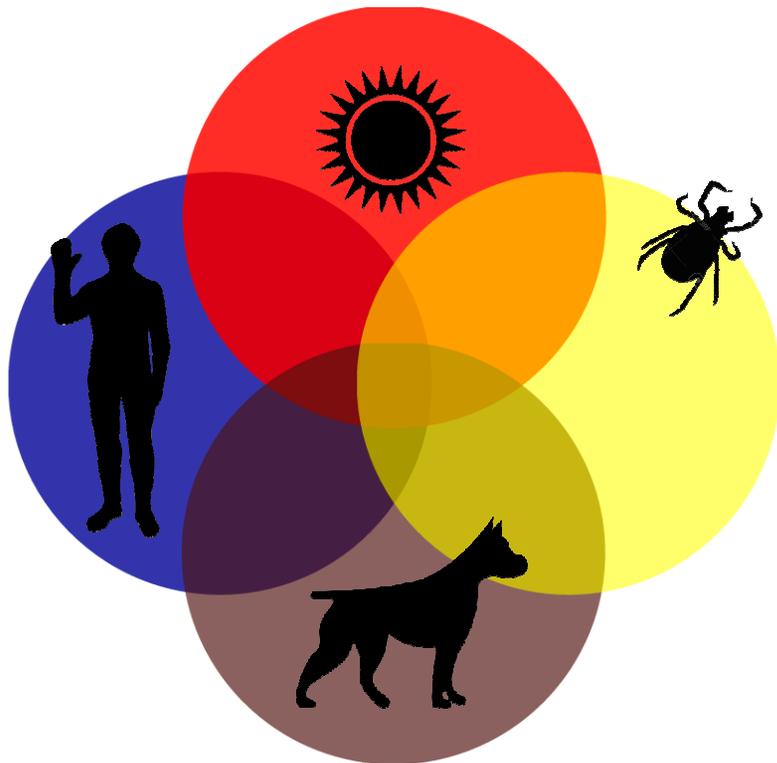
GPC 2013



RMSF in Arizona/Mexico will be **challenging** to resolve.



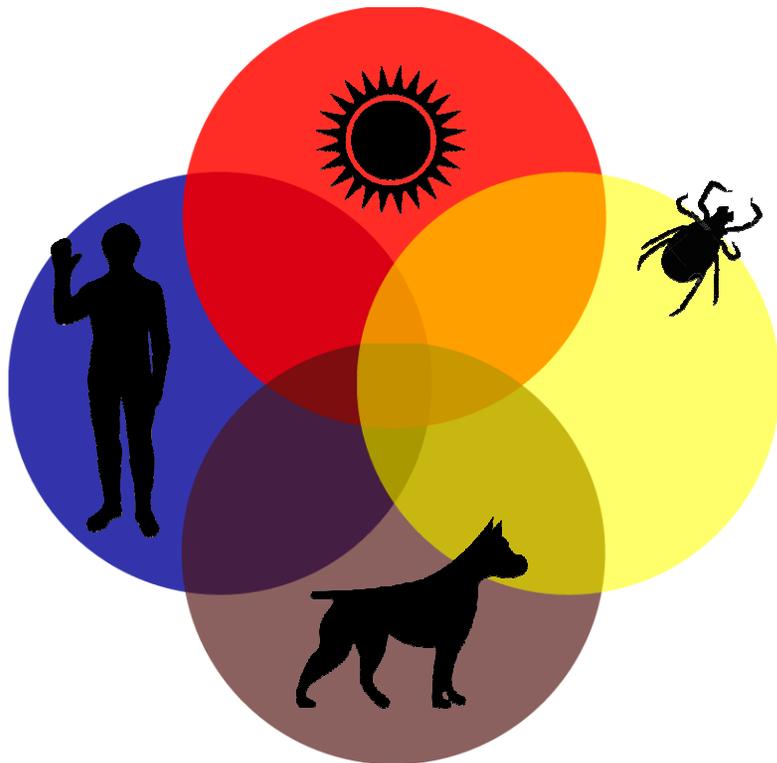
RMSF control in Arizona/Mexico will require a **sustained effort.**



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RMSF control in Arizona/Mexico will require a **sustained effort.**

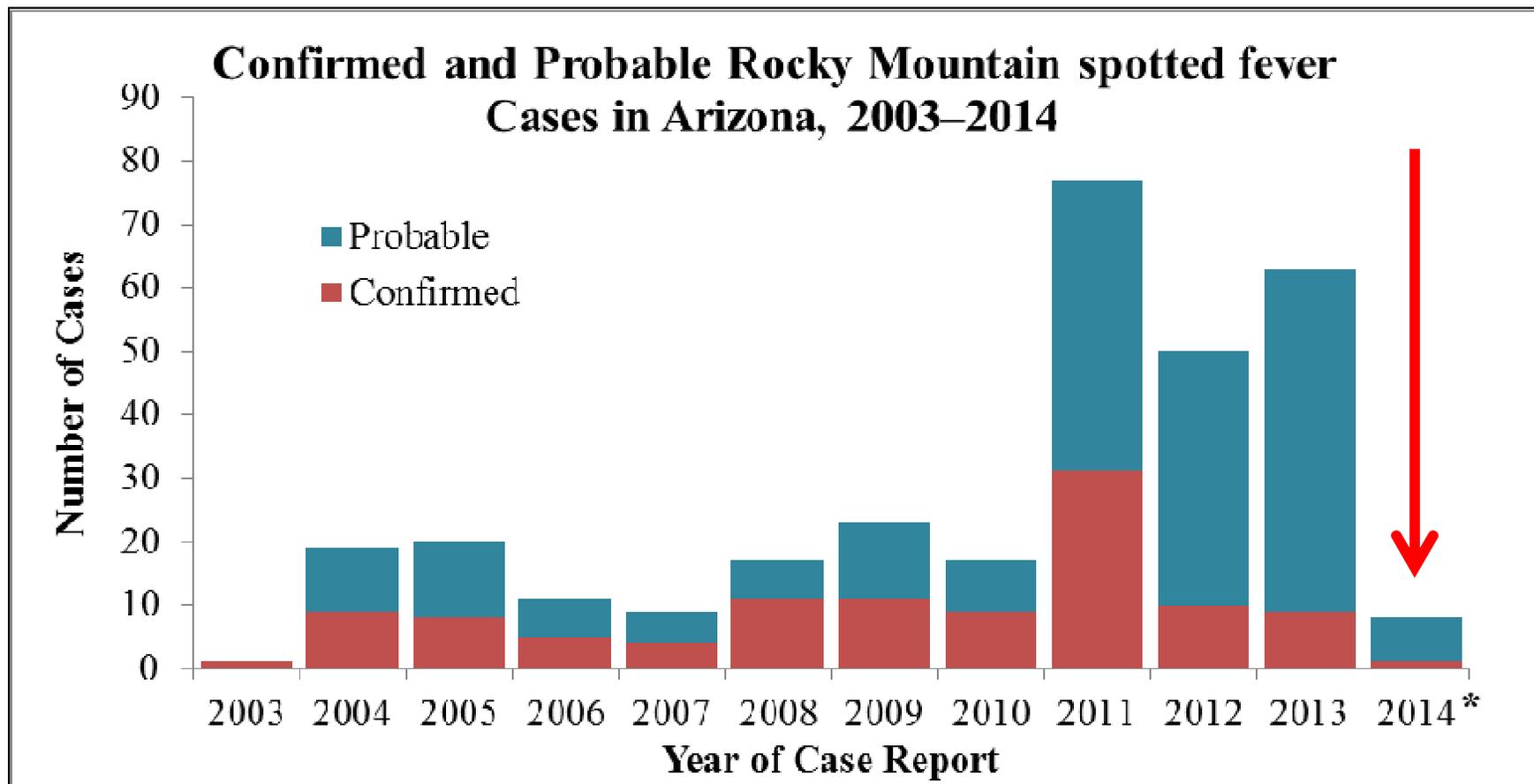


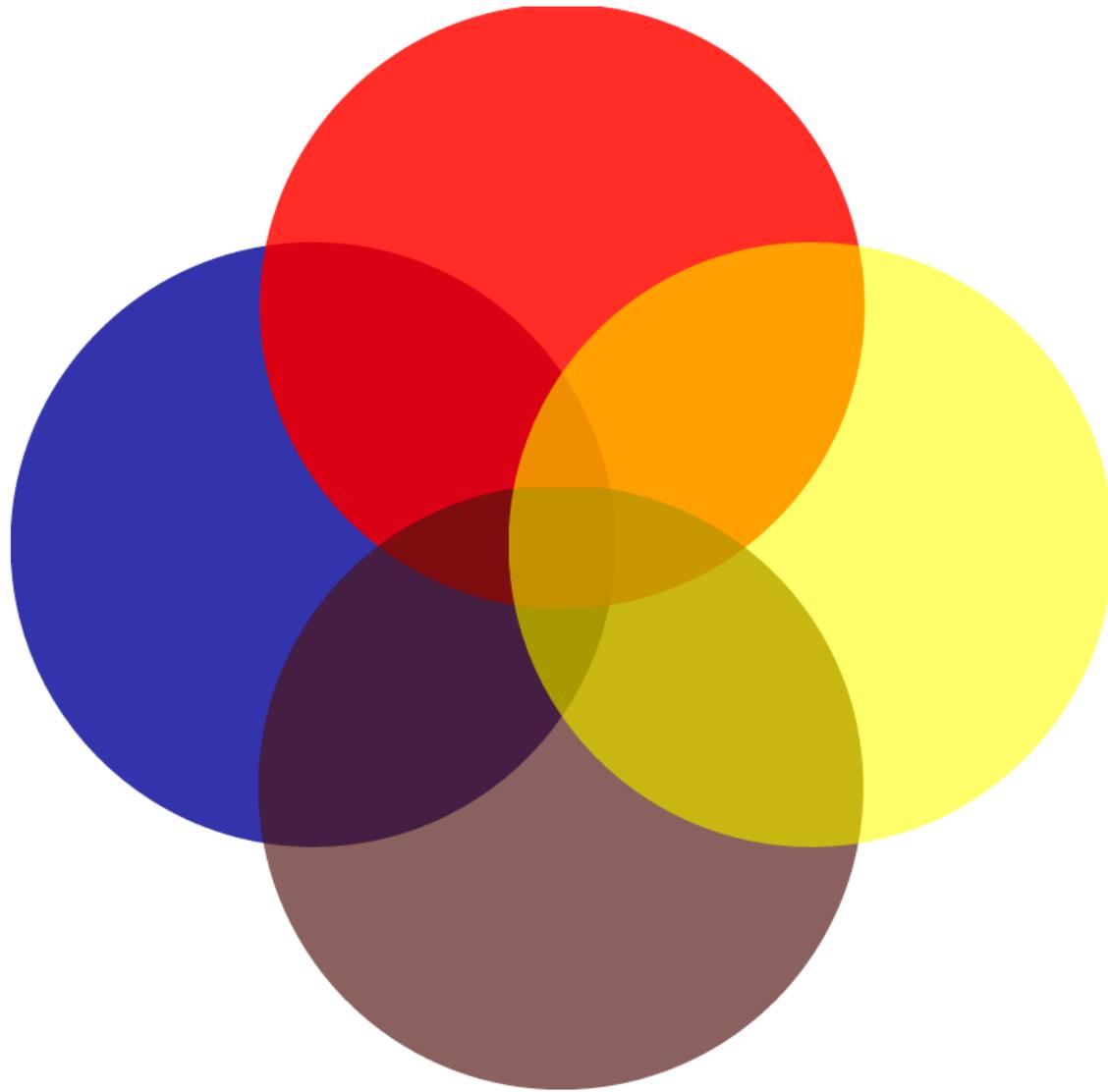
August 2012

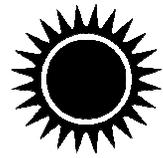
| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-------------------|
| | | | | | | 1 Yard cleanup |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | | | |
| 16 | 17 | 18 | 19 | | | |
| 23 | 24 | 25 | 26 | | | |
| 30 | | | | | | |



RMSF control in Arizona/Mexico will require a **sustained effort**.







Acknowledgments

Laura Adams

Hayley Yaglom

Robert Guerrero

Mariana Casal

Jessica Rigler

Kristen Herrick



Sources

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