Rabies Risk and Compliance with Pre-travel Rabies
Advice
A prospective cohort study

No conflict of interest

Sponsoring to assist congress: Sanofi Pasteur, GSK
Fee for travel health training: Sanofi Pasteur, GSK

Other relations with pharmacy: none Contribution to research: none

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2

This presentation

1

- 1. Background
- 2. Methods
- 3. Results
- 4. Conclusions

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Background
Increasing r

Increasing need for Post Exposure Prophylaxis:

- > Travelers have to be educated on rabies
- > High risk travelers need pre-travel vaccination

Do travelers comply with our recommendations?
Who exactly are high risk travelers?

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Parties involved

- Several public health authorities
- Leiden University Medical Center

Funding: Netherlands Organization for Health Research and Development

Prospective Cohort Study

Retrospective Case – Control Study

Cost Evaluation Study

Methods

Travel clinic visitors to high risk destinations

3 Travel Clinics:

GGD Utrecht: Atie Pijtak

GGD West Brabant: Godelief van den Hoogen GGD Hart voor Brabant: Mieke Croughs

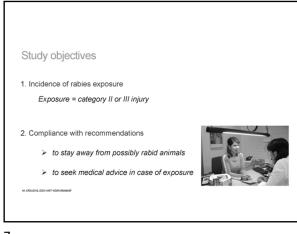
Inclusion: September 2017 - May 2018

Web based questionnaire 1 week after return

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Participants

980 participants (response 38%)

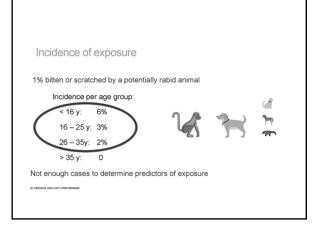
50% destination Asia

median age 35

median trip duration 17 days

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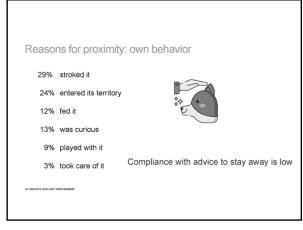
Compliance with advice to stay away from animals

59% ≤ 1 arm's length of a dog, cat, monkey or bat

47% 31% 24% 5%

On local markets, in wildlife parks, while hiking or in monkey temples

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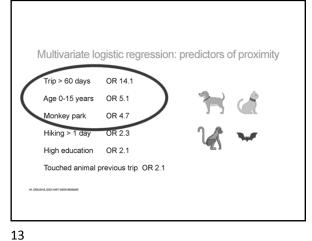
Reasons for proximity: independent of own behavior

56% it simply came to me
15% it wanted my food
12% it was not possible to avoid it

Difficult to stay away from animals

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Multivariable logistic regression: protective predictor

Business trip: OR 0.4



Destination, biking, gender, ethnicity, VFR, pet owner, fear or loving animals, visit of local market, wildlife park or cave = no independent predictors

14

Compliance with advice to seek immediate medical help

45% did not seek medical help after exposure!



15

Conclusions



- 1. Rabies exposure is high, despite pre-travel advice
- 2. (Young) Travelers do not comply well with rabies recommendations
- 3. High risk = young age long trip duration monkey park visit

16

17