Study on the breeding situations of dust mites in the college dormitories in Haikou city

RAO Lang-yu, LIN Ying-zi, WANG Yong-cun, et al.
(Department of Medical Laboratory, Hainan Medical College, Hainan Haikou 571101, P.R.China)

[ABSTRACT] Objective: To investigate the breeding situations of dust mites in college dormitories in Haikou city. Methods: The dusts in beds, pillows, tabletops, floors and transoms were collected and detected for mites by microscopy. Results: A total of 2 676 dust samples were collected, and the total detectable rate was 43.80%. The detectable rates of mites in dust samples collected from beds, pillows, tabletops, floors and transoms were 52.39%, 54.55%, 18.40%, 24.80% and 14.80% respectively, which were significant different (P<0.01). The detectable rates of mites in dust samples from college dormitories for male and female students were 44.79% and 42.58% (P>0.05). The detectable rates were 51.21%, 48.03%, 43.56%, 41.23%, 36.56% and 33.88% from the first floor to sixth floor respectively, which showed significant differences each other (P<0.01). The detectable rates were 44.07% and 43.59% in the dormitories with four and six individuals respectively (P>0.05). The detectable rates were 45.40%, 42.27% and 43.96% in the dormitories founded before 1995, 1996 to 2000 and after 2000 years (P>0.05). The detectable rates were 43.65%, 44.08%, 45.40% and 41.51% in agricultural college, medical college, normal college and comprehensive university respectively (P>0.05). The fifteen species of mites were identified, twelve of which belonged to Astigmata. Conclusion: Mites are able to breed in student's dormitories, and the breeding seems to be more common in beds and pillows, and the breeding rates seems to decrease with floor increasing. It is probably that Blomia tropicalis are preponderant in this area.

[KEY WORDS] Tropical whether; Mite; College, public health; Haikou city