

Long-Term Outcomes in a Prospective Cohort of Apprentices Exposed to High-Molecular-Weight Agents

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Rationale: We conducted a long-term (8-yr) follow-up of 408 apprentices entering programs involving exposure to high-molecular-weight allergens.

Objectives: The objectives were to assess the frequency of new and persisting sensitization, symptoms, and bronchial hyperresponsiveness in relation with job history after ending apprenticeship and to examine characteristics significantly associated with the incidence and remission of these occupational outcomes.

Methods: A respiratory symptom questionnaire, skin prick tests with work-related allergens (laboratory animals, flour, and latex), spirometry, and methacholine challenge were administered. The association between incidence or remission of these outcomes and individual characteristics at baseline and end of apprenticeship was examined.

Measurements and Main Results: In subjects who at any time during follow-up held a job related to their training (78%), the incidence of sensitization, rhinoconjunctival and chest symptoms, and bronchial hyperresponsiveness at follow-up was 1.3, 1.7, 0.7, and 2.0 per 100 person-years, respectively. The remission of these outcomes acquired during apprenticeship was 18.5, 9.6, 9.6, and 12.4 per 100 person-years, respectively, in subjects no longer in a job related to training. Several clinical, immunological, and functional characteristics at baseline and acquired during apprenticeship were found to be significantly associated with the incidence and remission of the outcomes. **Conclusions:** The incidence of sensitization, symptoms, and bronchial hyperresponsiveness was lower while at work than during the apprenticeship period. A high proportion of subjects in a job not related to training experienced remission of symptoms acquired during apprenticeship.

Keywords: occupational sensitization; bronchial responsiveness; work-related chest symptoms; work-related rhinoconjunctivitis symptoms; asthma in the workplace

IgE-mediated sensitization and development of rhinoconjunctival and respiratory symptoms represent a significant risk in workers exposed to various high-molecular-weight agents, such as flour in bakers and pastry-makers, latex in health professionals, and laboratory animals in animal health workers (1). Although population- and sentinel-based studies, medicolegal statistics, and cross-sectional studies in high-risk workplaces have been used to assess frequency, few prospective cohorts have been proposed to estimate the risk to health associated with exposure

AT A GLANCE COMMENTARY

Scientific Knowledge on the Subject

No long-term, entirely prospective study of apprentices at risk of symptoms, immunological reactivity, and hyperresponsiveness, and entering a workplace related to training or working in a different field has ever been performed.

What This Study Adds to the Field

The incidence of sensitization, symptoms, and bronchial hyperresponsiveness was lower while at work than during the apprenticeship period. A high proportion of subjects in a job not related to training experienced remission of symptoms acquired during apprenticeship.

at work to high- and low-molecular-weight agents. Some population-based prospective studies examined the risk of occupations to cause nasal or chest symptoms. Riu and coworkers showed that the risk of developing rhinitis was higher in adolescents enrolled in high-risk occupations (odds ratio [OR] 1.4; 95% confidence interval [CI], 1.0–2.1), especially those exposed to low-molecular-weight agents (2). In the European Community Respiratory Health Society (ECRHS)-II study performed in almost 7,000 participants from 13 countries, a significant asthma risk (OR, 1.6; 95% CI, 1–2.3) was documented in subjects enrolled in jobs with exposure to substances known to cause occupational asthma, including variants with and without a latency period (3). Students entering an apprenticeship program represent a suitable model for examining incidence and risk factors. De Zotti and coworkers have shown that the cumulative incidence of skin sensitization to relevant antigens in 125 trainee bakers was 10.1% after 30 months (4). Walusiak examined 287 apprentice bakers and found that the respective cumulative incidence of sensitization to a program-related antigen, occupational allergic rhinitis, and occupational asthma (OA) was 12.4%, 12.5%, and 8.7% over a 2-year period (5). Since 1992, we have performed a number of apprentice-based cohort studies. In nearly 800 apprentices exposed to high-molecular-weight allergens, the incidence of sensitization to a program-related specific allergen was 7.9 per 100 person-years (PY) in animal health, 4.2 per 100 PY in pastry-making, and 2.5 per 100 PY in dental hygiene (6). The incidence of probable occupational rhinoconjunctivitis (nasal symptoms and specific immunological reactivity) and OA (specific immunological reactivity and bronchial hyperresponsiveness) was 5.7 and 2.7 per 100 PY, respectively, in apprentices exposed to various animals over the 10- to 44-month training period (7). The incidence of probable OA was 3% after 15 months in 286 welding students (8).

The use of the prospective model in apprentices not only provides useful information on incidence and risk factors but also offers the possibility of reexamining the apprentices after

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they enter the workforce. A proportion of these students find a job related to their training, whereas others work in different fields. We conducted a long-term follow-up study of apprentices who trained in a field with exposure to high-molecular-weight agents to assess the incidence and remission of sensitization, symptoms, and bronchial hyperresponsiveness in relation with job history after ending apprenticeship and to examine characteristics that were significantly associated with the incidence and remission of these occupational allergy outcomes.

METHODS

Study Design

The study population was previously described on entering the training programs (9) and at the end of the apprenticeship (6, 7, 10–13). Figure 1 shows the schedule of visits in the current follow-up study.

Subjects

The 629 subjects who completed their training and remained in our study until then were eligible for the follow-up study; among them, 181 could not be traced. We contacted 448 subjects, of whom 408 agreed to participate. We have complete questionnaire data for 384 subjects (61.0%). Skin prick tests results were available for 368 subjects (58.5%), and bronchial responsiveness data were available for 281 subjects (44.6%). The 24 remaining subjects cancelled their appointment with the research personnel on more than one occasion or were unavailable within the time frame set for the follow-up.

Methods

The most recent address of participants and the address and telephone number of a parent and/or friend were available. The usual methods were used (e.g., use of telephone directories) to trace any subject for whom the addresses were invalid. The names of those for whom these methods failed were sent to the Quebec Health Insurance Board for an update of addresses after obtaining an authorization from the Agency of Protection of Personal Information. A letter of information was sent to all eligible subjects, and a telephone call followed shortly after to schedule a visit. Absence from work and transport fees were reimbursed.

The follow-up assessment included (1) answering the face-to-face administered standardized International Union Against Tuberculosis and Lung Disease (IUATLD)-ECRHS respiratory questionnaire (14, 15), which contains questions on work-related symptoms and work history after ending apprenticeship; (2) skin prick tests to work-specific allergens (e.g., rat urinary proteins [Allergon AB; Pharmacia, Angelholm, Sweden], mouse dander, rabbit dander, latex, mixed flours, and wheat and bran flour [Omega, Montreal, PQ, Canada]) that were used in studies performed in the same subjects (6); and (3) spirometry and bronchial responsiveness to methacholine (16). These tests were performed at Sacré-Coeur Hospital or at a participating training center; for those unable to come to these sites, a home visit was done that included the questionnaire and skin prick tests. For 16 subjects, the questionnaire was administered by telephone.

The outcomes studied were specific skin sensitization, work-related rhinoconjunctivitis and chest symptoms, and bronchial hyperresponsiveness. Skin sensitization to a program-specific allergen, symptoms of work-related rhinoconjunctivitis, and chest symptoms were considered “new” if they were absent through the apprenticeship and present any time after ending apprenticeship. Probable OA was defined as the occurrence of new skin sensitization to a program-specific allergen and significant increase in bronchial responsiveness at follow-up compared with that measured at entry into apprenticeship (3.2-fold or greater change in the provocative concentration of methacholine causing a 20% fall in FEV₁–PC₂₀, which corresponds to the 95% CI for within-subject variability of the test (17) as assessed by histamine in our laboratory and assuming that PC₂₀ histamine is highly comparable with PC₂₀ methacholine) (18), or a change at follow-up to a PC₂₀ of 16 mg/ml or less in subjects with an initial PC₂₀ of greater than 32 mg/ml. For each outcome, we defined a profile to describe the time course from end of apprenticeship to follow-up visit after ending apprenticeship. The profiles were negative-negative, negative-positive (new event), positive-negative (remission), and positive-positive (persistence). The events of interest were, for each outcome, incident cases during follow-up (negative-positive) and remission (positive-negative).

A work history was obtained on job(s) held after ending apprenticeship, with start and finish dates, number of hours worked per week, type of industry, main activity of the workplace, and job title. A three-point score was developed that reflected the relatedness of jobs held with training (score 0: not related; score 1: main activity of the workplace related; score 2: job title related). A score was attributed to each participant after a consensus agreement of two authors (DG and ES) blindly as to the outcome status. The duration of work was computed and totaled for all jobs considered related to training (score ≥ 1). Only workers who had worked at least 40 h/wk in such a job for the equivalent of 1 year or more including part-time work were considered as having a job related to training.

The protocol was approved by the ethics committee of Sacré-Coeur Hospital and each participant signed a consent form.

Statistical Analysis

Descriptive statistics are presented for each profile and are based on whether or not the participants had a job related to training. Person-years refer to the time between end of apprenticeship and date of follow-up visit.

Questionnaire items considered relevant for our outcomes were atopic diathesis, family history of asthma, atopic status (skin test reactivity to common allergens), bronchial responsiveness at baseline, and work-related symptoms during apprenticeship; this represented 36 parameters. The associations between these factors and the events of interest in subjects with a history of work related to training were estimated by ORs and 95% CIs adjusting for confounders (sex, age, and smoking) through multiple logistic regression analysis. We did weighted regression analyses using duration of follow-up (time between end of apprenticeship and follow-up visit) as weights to account for the increased risk of developing the outcomes associated with a longer time of follow-up.

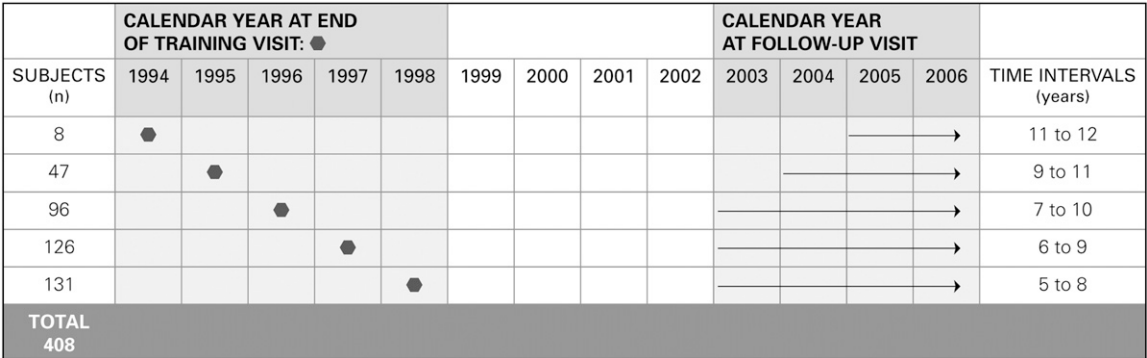


Figure 1. Schedule of visits. The date of the follow-up visit was set to maximize the distribution of time intervals (5–12 yr) between the date of follow-up and the date at the last assessment when the training was completed.

All analyses were performed with R (R Development Core team 2007, Vienna, Austria). A *P* value less than 0.05 was considered statistically significant.

RESULTS

The follow-up time after ending the apprenticeship was on average 7.56 ± 1.78 years (SD) (range, 4–11.7 yr). Subjects who took part in the follow-up and others who did not were compared for immunological (i.e., skin reactivity to common allergens), clinical (i.e., asthma diagnosed by a physician, nasoconjunctival and chest symptoms) and functional (i.e., bronchial hyperresponsiveness) characteristics; no differences were found between the two groups except for smoking, which was more common at baseline in the participants (Table 1). Similarly, the proportions of participants who developed skin reactivity to a program-specific allergen or work-related nasoconjunctival and chest symptoms during apprenticeship were not different than among nonparticipants. A total of 315 subjects had a job related to their training, and 69 (18.0%) did not. Subjects who chose a job related to their training did not differ in terms of incidences of specific sensitization, reported work-related symptoms, or bronchial hyperresponsiveness during apprenticeship (Figures 2–5).

Figure 2 shows incidence and remission figures on specific skin sensitization according to the relatedness of the work history to the training program. In subjects who were in a job related to their training, 22 out of 225 developed a new specific sensitization (1.3 per 100 PY), in contrast to 9.7 and 7.3 per 100 PY during the training period, respectively, for subjects with a job not related or related to their training. Sixteen of the 22 (1.8 per 100 PY) newly sensitized subjects in a job related to their training had been in the animal health program, four (1.0 per 100 PY) had been in pastry-making, and two (0.7 per 100 PY) had been in dental hygiene. Of the 20 subjects who became sensitized during their training and had a job not related to their training, 16 (18.5 per 100 PY) lost sensitization by comparison with a lower occurrence of remission (i.e., 9.5 per 100 PY) among those who were still in the same field.

TABLE 1. CHARACTERISTICS AT BASELINE AND ACQUISITION OF SYMPTOMS/DISEASE DURING APPRENTICESHIP: COMPARISON BETWEEN PARTICIPANTS AND NONPARTICIPANTS AMONG SUBJECTS ELIGIBLE FOR THE FOLLOW-UP (n = 629)

	Participants (n = 384)	Nonparticipants (n = 245)
At baseline		
Age, yr (mean $\pm$ SD)	21 $\pm$ 6.1	23.4 $\pm$ 8.2
Male gender	52 (13.5)*	36 (14.7)
Smoking (S vs. NS + Ex-S)	60 (15.6)	22 (9.0)
Program of apprenticeship		
Animal health	242 (63.0)	111 (45.3)
Pastry	88 (22.9)	87 (35.5)
Dental hygiene	54 (14.1)	46 (18.8)
Atopy†	165 (43.5)	101 (42.1)
Physician diagnosis of asthma	39 (10.2)	26 (10.7)
Symptoms of rhinitis on contact with pets	129 (33.6)	81 (33.3)
Chest symptoms on exercise	80 (20.8)	55 (22.6)
PC ₂₀ $\leq$ 16 mg/ml	96 (26.7)	65 (29.4)
During apprenticeship		
Sensitization to a work-related allergen	71 (18.7)	56 (23.4)
Work-related chest symptoms	18 (4.7)	6 (2.5)
Work-related rhinoconjunctival symptoms	126 (33.5)	75 (31.5)
Increase in bronchial responsiveness	57 (14.8)	41 (16.8)
Non-work-related chest symptoms	97 (25.3)	63 (25.9)

Definition of abbreviations: Ex-S = ex-smokers; NS = nonsmokers; S = smokers.

* Values are number of participants with percentage in parentheses unless otherwise noted.

† Atopy is defined as at least two positive reactions to skin prick tests to common allergens.

Figures 3 and 4 give similar information regarding work-related rhinoconjunctival and chest symptoms. The incidence of rhinoconjunctival symptoms was much lower at the time of follow-up (1.7 per 100 PY) than during the training period (12.9 per 100 PY) in those in a job related to their training. Of the 26 incident cases after ending apprenticeship, 15 (57.7%) had been in the animal health program. The incidence of chest symptoms was lower in those in a job related to their training during the follow-up period (0.7 PY) than during the apprenticeship (1.7 PY). Of 16 incident cases, 10 trained in animal health. Figure 5 presents results related to the increase in bronchial responsiveness. The incidence of bronchial hyperresponsiveness was, respectively, 5.8 during apprenticeship and 2.0 per 100 PY during follow-up in subjects with a job related to their training. Of the 27 incident cases of bronchial hyperresponsiveness, 12 were from the animal health program, 8 were from pastry-making, and 7 were from dental hygiene. Almost all subjects (6/7) who acquired bronchial hyperresponsiveness during their training and were no longer in a job related to their apprenticeship lost this feature.

There were 23 out of 277 (8.3%) new cases of probable OA during the apprenticeship and 6 out of 201 (3.0%) after ending apprenticeship in those with a job history related to training. Two subjects with probable OA on ending apprenticeship and having left the field were no longer affected; by comparison, probable OA persisted in one-third (7/21) of those who were still working in the same field.

Table 2 presents clinical, immunological, and functional characteristics at baseline and acquired during apprenticeship and their association with new specific sensitization, work-related symptoms and increase of bronchial responsiveness in those with a work history related to training; the referents are subjects who did not develop the outcome. The adjusted odds ratios are presented only for characteristics significantly associated with the outcomes. In multivariate analyses, sensitization to mites and bronchial hyperresponsiveness remained significantly associated with new sensitization to a work-related allergen, physician-diagnosed asthma and bronchial hyperresponsiveness at start remained significantly associated with incidence of chest symptoms, and sensitization to pets at baseline and respiratory symptoms at the end of apprenticeship remained significantly associated with increase in bronchial hyperresponsiveness. Table 3 lists characteristics significantly and inversely associated with remission during follow-up compared with persistence of sensitization to a work-related allergen, work-related symptoms, and increases of bronchial responsiveness developed during training in subjects who had ever held a job related to training. Factors significantly and inversely associated with remission of outcomes were sensitization to pets at baseline in the case of sensitization to a work-related allergen, sensitization to pets at baseline for rhinoconjunctivitis symptoms, and baseline hyperresponsiveness for increase in bronchial hyperresponsiveness.

The number of subjects with probable OA during or after apprenticeship was not sufficient to allow for similar analyses. Of the 55 incident cases of sensitization to a work-related allergen during the apprenticeship (Figure 2), 40 (72.7%) had also developed work-related rhinoconjunctivitis symptoms during the same period that persisted at work in 16 cases, and three others (3/55 or 5.5%) developed rhinoconjunctivitis symptoms at work. Nine of these 55 subjects (16.4%) had developed respiratory symptoms during training that persisted at work in three cases, and four others (7.3%) developed respiratory symptoms after ending apprenticeship.

There were 109 incident cases of work-related rhinoconjunctivitis symptoms during the apprenticeship, accompanied in 14 of these cases (12.8%) by respiratory symptoms that persisted at work in four cases (Table 4). Seven subjects (7/94 or 7.4%)

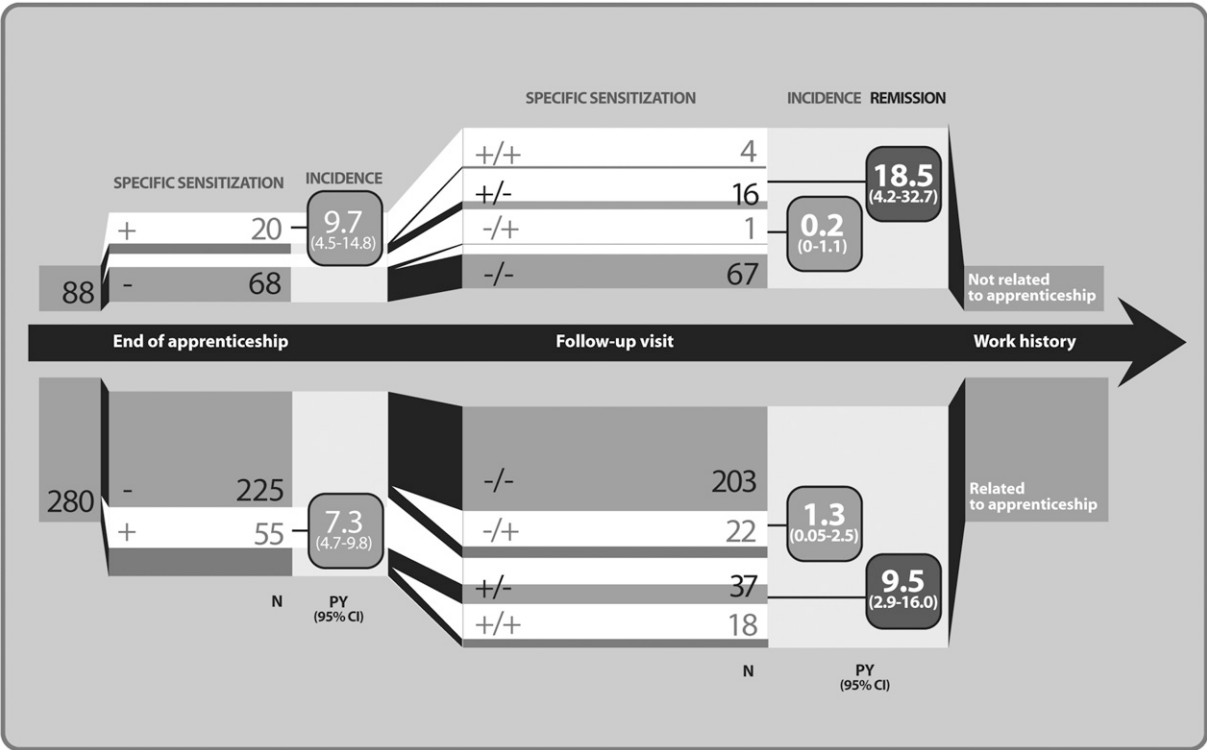


Figure 2. Incidence and remission of specific sensitization after ending apprenticeship by work history. Incidence and remission expressed per 100 person-years (PY) with 95% confidence intervals (CI). The time-course profiles of the outcome from end of apprenticeship to follow-up visit are represented by $-/-$, $-/+$, $+/-$, and $+/+$. n = number of subjects by profile. The incidence of the outcome at end of apprenticeship is presented on the left.

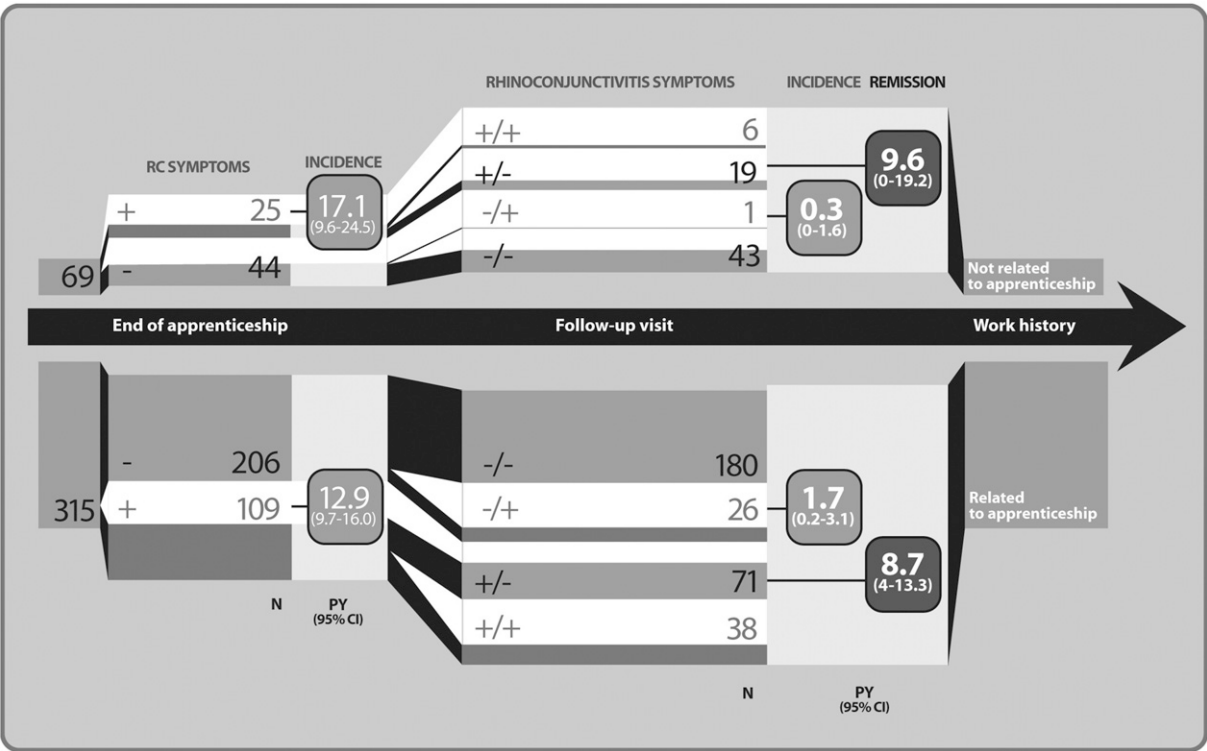


Figure 3. Incidence and remission of rhinoconjunctivitis symptoms after ending apprenticeship by work history. Incidence and remission expressed per 100 person-years (PY) with 95% confidence intervals (CI). The time-course profiles of the outcome from end of apprenticeship to follow-up visit are represented by $-/-$, $-/+$, $+/-$, and $+/+$. n = number of subjects by profile. The incidence of the outcome at end of apprenticeship is presented on the left.

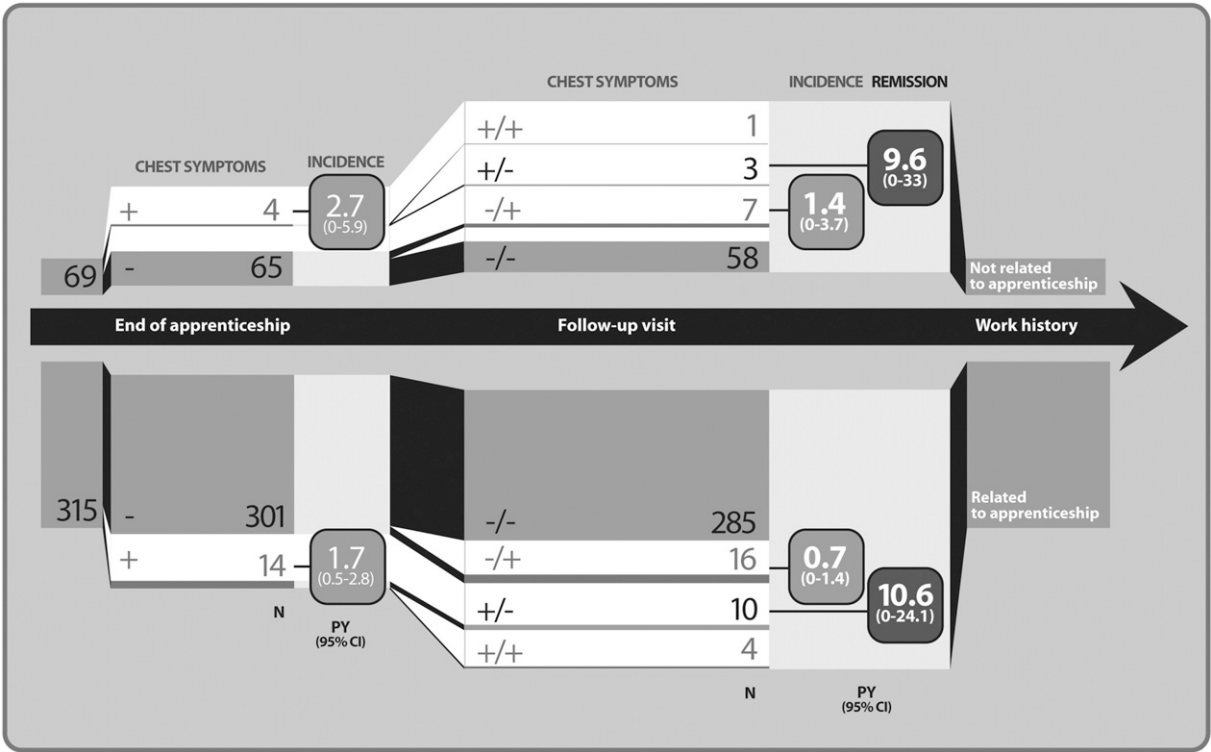


Figure 4. Incidence and remission of chest symptoms after ending apprenticeship by work history. Incidence and remission expressed per 100 person-years (PY) with 95% confidence intervals (CI). The time-course profiles of the outcome from end of apprenticeship to follow-up visit are represented by -/-, -/+, +/+, and +/+. n = number of subjects by profile. The incidence of the outcome at end of apprenticeship is presented on the left.

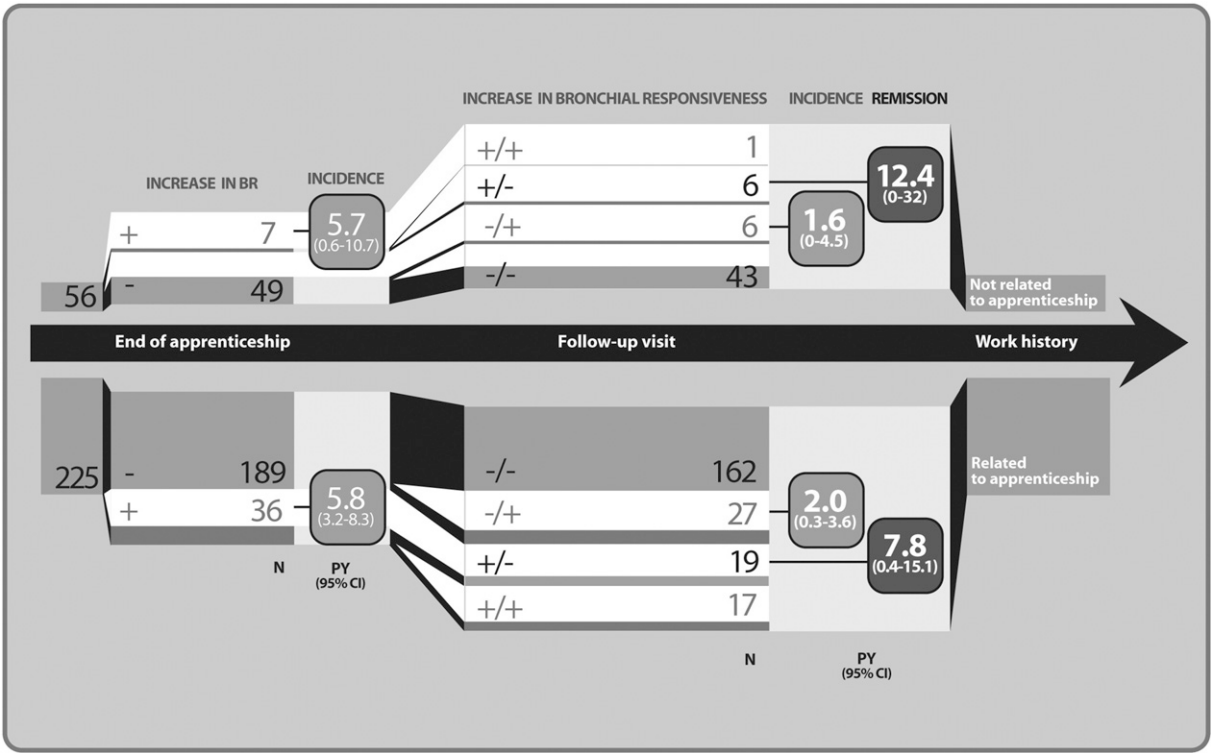


Figure 5. Incidence and remission of increase in bronchial responsiveness after ending apprenticeship by work history. Incidence and remission expressed per 100 person-years (PY) with 95% confidence intervals (CI). The time-course profiles of the outcome from end of apprenticeship to follow-up visit are represented by -/-, -/+, +/+, and +/+. n = number of subjects by profile. The incidence of the outcome at end of apprenticeship is presented on the left. Increase in BR = increase in bronchial responsiveness (a 3.2-fold or greater change in PC₂₀ or a change at follow-up to PC₂₀ ≤ 16 mg/ml in subjects with initial PC₂₀ > 32 mg/ml).

TABLE 2. CHARACTERISTICS ASSOCIATED WITH INCIDENT SENSITIZATION TO A WORK-RELATED ALLERGEN, WORK-RELATED RESPIRATORY SYMPTOMS, AND INCREASED BRONCHIAL RESPONSIVENESS AT FOLLOW-UP IN SUBJECTS WHO HAVE EVER HELD A JOB RELATED TO THEIR TRAINING

	Referents*	Incident Cases	OR (95% CI)
Sensitization to a work-related allergen, n	203	22	
Immunological sensitization			
To pollen at baseline	54 (26.7) [†]	12 (54.5)	3.5 (1.4–8.7)
To mites at baseline	55 (27.1)	17 (77.3)	9.8 (3.3–29.2)
Symptoms			
Perennial rhinitis at baseline	82 (40.4)	14 (63.6)	3.0 (1.1–7.7)
Rhinitis on contact with pets at baseline	54 (26.6)	10 (45.5)	2.9 (1.1–7.2)
Bronchial hyperresponsiveness at baseline [‡]	16 (8.4)	5 (22.7)	3.4 (1.1–10.9)
Work-related rhinoconjunctivitis symptoms, n (no significant association)	180	26	
Work-related chest symptoms, n	285	16	
Symptoms			
Physician diagnosis of asthma at baseline	19 (6.7)	4 (25)	5.2 (1.6–17.2)
Respiratory symptoms at end of apprenticeship	94 (33.0)	9 (56.2)	4.6 (1.1–18.0)
Bronchial hyperresponsiveness at baseline [‡]	31 (11.5)	5 (33.3)	4.6 (1.5–14.5)
Increased bronchial responsiveness [§] , n	162	27	
Immunological sensitization			
To pets at baseline	21 (13.1)	14 (51.9)	7.9 (3.2–19.4)
To pollens at baseline	50 (31.1)	16 (59.3)	3.8 (1.6–8.6)
Symptoms			
Rhinitis on contact with pets at baseline	37 (22.8)	17 (63.0)	6.0 (2.5–14.0)
Perennial rhinitis at baseline	68 (42.0)	18 (66.7)	2.9 (1.3–6.8)
Hayfever at baseline	34 (20.9)	11 (40.7)	2.9 (1.3–6.7)
Respiratory symptoms at baseline	29 (17.9)	12 (44.4)	3.9 (1.7–9.1)
Respiratory symptoms at end of apprenticeship	20 (12.3)	12 (44.4)	5.8 (2.4–13.9)
Onset of nasal symptoms at work during apprenticeship	34 (20.1)	11 (40.7)	2.7 (1.2–6.3)
Onset of conjunctival symptoms at work during apprenticeship	15 (9.2)	7 (25.9)	3.2 (1.2–8.8)
Bronchial hyperresponsiveness at baseline [‡]	9 (5.8)	8 (32.0)	9.1 (3.1–26.5)

Definition of abbreviations: CI = confidence interval; OR = odds ratio.

* Referents are those who never developed the outcome considered. Logistic regression analyses adjusted for age (dichotomized), gender, and smoking and weighted for duration of follow-up. A crude OR is calculated as follows: for a total of 22 incident case of sensitization to a work-related allergen and 203 referents, the OR for the risk factor of immunological sensitization to pollen is $OR = (12/10)/(54/149) = 3.3$.

[†] Values are number of subjects with percentage in parentheses unless otherwise noted.

[‡] $PC_{20} \leq 8$ mg/ml.

[§] Defined as 3.2-fold or greater change in the provocative concentration of methacholine that causes a 20% fall in FEV_1 - PC_{20} or a change at follow-up to a $PC_{20} \leq 16$ mg/ml in subjects with an initial $PC_{20} > 32$ mg/ml.

developed work-related respiratory symptoms after ending apprenticeship. Seventy-one of these 109 incident cases had assessment of bronchial responsiveness (Table 5). Twenty-one out of 71 (29.6%) developed hyperresponsiveness during apprenticeship, and 12 out of 50 (24.0%) developed hyperresponsiveness while at work.

DISCUSSION

This study is the first long-term follow-up of apprentices (workers at the time of the study) exposed to high-molecular-weight agents during their training and at risk of sensitization, symptoms, and bronchial hyperresponsiveness. Relevant information on the outcome of subjects who did or did not have a work history related to training is provided. We found that the incidence of sensitization in those with a job related to training was lower than that found at the time of apprenticeship (1.3 vs. 7.3/100 PY). The same applies for the incidence of rhinoconjunctivitis, which was also lower after ending apprenticeship; a decrease in the incidence of chest symptoms and bronchial hyperresponsiveness was also seen although less clearly (overlap of 95% CIs). In the case of remission, subjects who had developed specific sensitization or showed an increase in bronchial responsiveness during apprenticeship and no longer in the same field tended to lose these features more so than those in the same field, although 95% CIs overlapped. These findings have public health implications.

Surveillance of OA should be prioritized in the first years after starting exposure because the incidence of its hallmarks decreases afterward. Finally, the subjects who trained in the animal health program had the highest incidence of specific sensitization at the follow-up assessment compared with other programs, which was also the case in the training period (6). The reason for this higher frequency also found by others in workers exposed to laboratory animals is not clear, but it might be that proteins derived from animals represent more potent allergens (19).

These changes in frequency (incidence and remission) of sensitization and disease are unlikely to be due to frequently incriminated host factors such as atopy and smoking because the frequency of these factors did not change. Exposure expressed by the number of hours spent in a job related to training did not go down because those with a work history compatible with training had worked, according to our definition, at least 40 hours/week during 1 year after ending apprenticeship, which was greater than during apprenticeship. However, in our study, exposure was assessed by an indirect index; that is, the number of hours spent per week during the apprenticeship or while at work. Because we did not assess directly the environmental concentrations of the antigens, we cannot exclude the possibility that these concentrations were higher during the apprenticeship. The same rationale applies for the acquisition of outcomes in a few subjects who were classified in the "job not related to apprenticeship" category. Participants with part-time work

TABLE 3. CHARACTERISTICS ASSOCIATED WITH REMISSION, COMPARED WITH PERSISTENCE, OF SENSITIZATION TO A WORK-RELATED ALLERGEN, RHINOCONJUNCTIVAL SYMPTOMS, AND INCREASE IN BRONCHIAL RESPONSIVENESS AT FOLLOW-UP IN SUBJECTS WHO HAVE EVER HAD A JOB RELATED TO THEIR TRAINING

	Persistence n (%)	Remission n (%)	OR (95% CI)
Sensitization to a work-related allergen, n	18	37	
Immunological sensitization			
To molds at baseline	8 (44.4)	5 (13.5)	0.13 (0.03–0.59)
To pets at baseline	12 (66.6)	8 (21.6)	0.13 (0.03–0.53)
To grass at baseline	11 (61.1)	14 (37.8)	0.26 (0.07–1.0)
Symptoms			
Hayfever at baseline	11 (61.1)	14 (37.8)	0.23 (0.06–0.83)
Onset of conjunctival symptoms at work during apprenticeship	13 (72.2)	13 (35.1)	0.22 (0.06–0.79)
Bronchial hyperresponsiveness at baseline*	11 (61.1)	11 (30.6)	0.27 (0.07–0.98)
Work-related rhinoconjunctivitis symptoms, n	38	71	
Immunological sensitization			
To pets at baseline	19 (50)	21 (29.6)	0.42 (0.18–0.97)
Symptoms			
Onset of conjunctival symptoms at work			
Onset of conjunctival symptoms during apprenticeship	28 (73.0)	32 (44.3)	0.29 (0.12–0.71)
Work-related chest symptoms, n (no significant association)	4	10	
Increase in bronchial responsiveness†, n	17	19	
Symptoms			
Hay fever at baseline	10 (58.8)	4 (21.1)	0.11 (0.02–0.59)
Onset of cutaneous symptoms at work			
Onset of cutaneous symptoms during apprenticeship	12 (76.5)	6 (26.3)	0.17 (0.04–0.77)
Bronchial hyperresponsiveness at baseline*	13 (76.5)	3 (15.8)	0.03 (0.04–0.24)

Definition of abbreviations: CI = confidence interval; OR = odds ratio.

* $PC_{20} \leq 16$ mg/ml.

† Defined as 3.2-fold or greater change in the provocative concentration of methacholine that causes a 20% fall in FEV_1 - PC_{20} or a change at follow-up to a $PC_{20} \leq 16$ mg/ml in subjects with an initial $PC_{20} > 32$ mg/ml. Logistic regression analyses adjusted for age (dichotomized), gender, and smoking and weighted for the duration of the follow-up. A crude OR is calculated as follows: For a total of 37 cases of remission of sensitization to a work-related allergen and 18 cases of persistence, the OR for the risk factor of immunological sensitization to molds is $OR = (5/32)/(8/10) = 0.20$.

might have been exposed to the relevant allergen but wrongly classified as non-exposed. We suspect that the time-course of sensitization and disease slows down after the first few years of exposure; this may be related to host characteristics that were not examined in the current work. It is likely that the more susceptible cases are identified in the first few years after starting exposure (i.e., during apprenticeship) and that the less susceptible cases show up afterward (i.e., during work). Another possibility could be the development of specific IgG that confers protection against symptomatology and probable disease (20). Symptomatology that does not diminish in frequency over time can be influenced by personal factors, such as over- or under-reporting that can lead to biased estimates. Also, incident bronchial hyperresponsiveness can be related to the development of nonoccupational respiratory symptoms. The lower incidence of specific sensitization, symptoms, bronchial hyperresponsiveness, and probable OA may also be partially related to the healthy

worker effect. This is unlikely to have affected our results because the 88 subjects who did not have a job related to their apprenticeship did not have a higher incidence of specific sensitization, symptoms, and increase in bronchial responsiveness at the end of apprenticeship than those choosing a job in the same field (Figures 2–5). The participation rate was satisfactory (61.0%), and the characteristics of the nonparticipants (except for smoking) were not different from those of participants, which reduces the likelihood of biases in the estimates. Finally, objective tests are more likely to provide unbiased estimates of the incidence of outcomes than reported symptomatology.

It is difficult to interpret the time course of features acquired during apprenticeship in subjects who worked in an environment related to their apprenticeship compared with those who

TABLE 4. WORK-RELATED CHEST SYMPTOMS DURING FOLLOW-UP IN SUBJECTS WITH INCIDENT WORK-RELATED RHINOCONJUNCTIVITIS DURING APPRENTICESHIP AND A JOB HISTORY RELATED TO TRAINING

	Rhinoconjunctivitis Symptoms (n = 109)	
	n	%
End of apprenticeship		
Chest symptoms	14	12.8
No chest symptoms	94	86.2
Follow-up visit		
Persistent chest symptoms	4	28.6
Incident chest symptoms	7	7.4

TABLE 5. INCREASE IN BRONCHIAL RESPONSIVENESS DURING FOLLOW-UP IN SUBJECTS WITH INCIDENT WORK-RELATED RHINOCONJUNCTIVITIS DURING APPRENTICESHIP AND A JOB HISTORY RELATED TO TRAINING

	Rhinoconjunctivitis Symptoms (n = 71)*	
	n	%
End of apprenticeship		
Increase in BR	21	29.6
No increase in BR	50	71.4
Follow-up visit		
Persistent increase in BR	11	52.4
Incident increase in BR	12	24.0

Definition of abbreviations: BR = bronchial responsiveness

* Seventy-one subjects with incident work-related rhinoconjunctivitis symptoms had a methacholine challenge test.

did not. Frequently, subjects who developed sensitization, symptoms, and disease during the apprenticeship no longer demonstrated these acquired features at follow-up; this was somewhat more frequent with regard to specific sensitization and bronchial responsiveness if they worked in an environment not related to their apprenticeship. In subjects with objectively diagnosed OA, it has been shown that there is generally persistence of asthma (21) and of IgE-mediated sensitization to the causal agent (22) after cessation of exposure. Although there is a diminution of IgE-mediated sensitization after stopping exposure to an occupational agent in subjects with OA (23, 24), Lemi re found that nearly 75% of 16 subjects with OA to high-molecular-weight agents had elevated levels of specific IgE 2 years or more after cessation of exposure (22). In contrast, the results of our study suggest that early markers of OA may be transient and more rapidly reversible when subjects are no longer in a work environment related to their training than OA. Remission of immunological reactivity in subjects who were still in the same type of working environment is difficult to explain. Misclassification of exposure may have occurred. For example, students may have been exposed predominantly to laboratory animals during their training and only to domestic pets while at work. Job title was the question that was asked and not the type of animals participants were exposed to. However, such an apparent reversal of immunological sensitization has also been noticed in subjects sensitized to ubiquitous allergens, and the hypothesized mechanism is related to development of specific IgG and IgG₄ antibodies (20). It would therefore be relevant to quantify the levels of specific IgE, IgG, and IgG₄ antibodies in subjects showing one of the three profiles, namely those who acquired sensitization, those who remain sensitized, and those who apparently lose sensitization.

Factors associated with the development of sensitization, symptoms, and increased bronchial responsiveness up to 11 years after first exposure at beginning of apprenticeship (see Table 2) are of the same type as those previously found to be associated with these outcomes during the apprenticeship period (6, 10). Some factors pertain to the status of immunological sensitization to ubiquitous allergens, others to general nasal and respiratory symptomatology, and others to the status of bronchial responsiveness to methacholine. Although the latter has generally not been incriminated in the likelihood of developing OA (21), the level of bronchial responsiveness at the time of entry in apprenticeship was associated with incident sensitization to a work-related allergen, new work-related chest symptoms, and increased bronchial responsiveness.

Several characteristics were found to be significantly associated with remission compared with persistence of sensitization, symptoms, and bronchial hyperresponsiveness (see Table 3). There is evidence that the absence of IgE-mediated sensitization to ubiquitous allergens and of bronchial hyperresponsiveness at the time of entry into the apprenticeship was associated with the remission of work-related characteristics in those who continued to be exposed to the relevant agent(s). On the other hand, work-related symptoms that developed during apprenticeship were significant determinants of persistence of the study outcomes after entering a workplace with similar exposures. Due to the small number of subjects who developed the outcomes, the power of the multivariate analyses does not allow us to draw firm conclusions on the most significant predictors. Our main objective was to identify all significant determinants.

The incidence of nasoconjunctival symptoms (1.7 per 100 PY) was greater than that of respiratory symptoms (0.7 per 100 PY). Although much neglected, rhinitis and occupational rhinitis are more frequent than asthma and OA (25, 26).

Students who acquired various features (sensitization, changes in bronchial responsiveness, and symptoms) during apprentice-

ship did not reorient their careers. The majority of participants in the follow-up chose a job related to their apprenticeship (315/384 [82.0%]) (Figure 3). Although all these students were given information on their health status after completing the tests performed during their apprenticeship, this did not influence their decision. Orbon and coworkers found that the choice of vocational and working careers of adolescents was minimally affected by asthma symptoms or asymptomatic bronchial hyperresponsiveness (27). In a prospective cohort study of nearly 5,000 participants, Radon and coworkers confirmed these findings and showed no significant associations between baseline asthma, allergic rhinitis, or atopic dermatitis and selection of jobs with asthma risk (28). There was a tendency for teenagers with allergic rhinitis to select high-risk jobs less frequently (28).

Our long-term study was performed in subjects exposed to high-molecular-weight agents. It would be useful to conduct similar long-term studies with workers exposed to low-molecular-weight agents that are potential causal agents in approximately 60% of subjects referred for possible OA (29).

Conflict of Interest Statement: None of the authors has a financial relationship with a commercial entity that has an interest in the subject of this manuscript.

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Long-term outcomes in a prospective cohort
of apprentices exposed to high-molecular-weight agents

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Running head: Outcomes in a cohort of apprentices

ONLINE DATA SUPPLEMENT

Crude odds ratios (ORs) and 95% confidence intervals (CI) from logistic regression are presented. The results are presented for four outcomes: 1) specific sensitization to a work-related allergen; 2) work-related rhinoconjunctival symptoms; 3) work-related chest symptoms; and 4) increase in bronchial responsiveness. For each outcome, 36 independent potential risk factors have been considered as well as three covariates, namely, gender, smoking and age (dichotomized).

For each set of analysis, a two-by-two table is presented, as well as the regression coefficient, the standard deviation of the coefficient, the OR, the lower and upper limits of the 95% confidence interval and the p value. The positive predicted value (PPV) and the negative predicted values (NPV) are also presented.

Results of the logistic regression of the outcomes of interest and the factors studied, adjusted for the effects of Age, Sex, and Smoking

Nomenclature

1- outcomes

idx.rc = index for rhino-conjunctivitis
idx.bh = bronchial hyper responsiveness
idx.sp = specific sensitization
idx.rt = respiratory (chest) symptoms
all the indices are coded 1 for either Incidence or Remission
and 0 for Referents or Persistence, respectively

2- factors

a- measured at baseline

asthmemd : asthma diagnosed by an MD
cp20a8 : cp20 < 8 mg/ml
cp20a16 : 16 mg/ml
cp20a32 : 32 mg/ml
asthfam : members of the family with a history of asthma
 recoded 0=0 , 1-10 = 1
asthmere : mother with asthma
asthpere : father with asthma
cigl : ever smoked
cigact1 : active smoker at baseline
froid1 : respiratory symptoms on exposure to cold air
fumeel : " " " " " smoke
toux1 : cough

an_rhin1 : rhinitis on contact with animals at baseline
an_brcol : respiratory symptoms on contact with animals at baseline
ns_rhin1 : non specific rhinitis at baseline
po_brcol : respiratory symptoms on contact with pollens at baseline
po_rhin1 : rhinitis to pollens at baseline
pvemsp : FEV1 percent predicted < 80%

mites1 : mites(d.farianea,D.pteronyssinus)
molds1 : molds(alternaria,aspergillus,hormodendrum)
pets1 : pets(cat, dog)
pollens1 : pollens(trees,grass,ragweed)
recoded to 0 = 0, 1+ = 1

b- developed during training

eib_time : time to develop exercise induced bronchoconstriction during
 training
ess_time : dyspnea
opp_time : chest tightness
rhic_tm : rhinconjunctivitis
sil_time : wheezing
spec_tim : specific sensitization

tr_es_tm : dyspnea at work
tr_ne_tm : nose symptoms at work
tr_pe_tm : skin rash at work
tr_rhitm : rhinitis at work
tr_si_tm : wheezing at work
tr_ye_tm : ocular symptoms at work
all times recoded 0-4 = 1 [during training],
 5-10 = 0 [did not occur]

SyRes : respiratory symptoms at baseline
SyResTra : incident during training
SyResFin : at end of training
recoded to 0 = 0, 1+ = 1

c- co-variates (adjusted for)

```

Sexe      : sex / gender
Smk       : actual smoker = 1, no/ex smoker = 0
Edad      : age < 25 years =0 , > 25 y = 1

```

All analysis performed with R
 R Development Core Team (2007). R: A language and environment for
 statistical computing. R Foundation for Statistical Computing,
 Vienna, Austria. ISBN 3-900051-07-0, URL <http://www.R-project.org>.

```

=====
Specific Sensitization
=====

```

```

Persistent : 18   Remission : 37

```

```

GlmWithOr(x = abf$asthmemd, y = abf$idx.sp)

```

```

      Y
x      0  1
      0 14 34
      1  4  3

```

```

Crude OR : 0.3088
Crude PPV : 0.4286   NPV : 0.2917

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.0513	0.7414	2.8614	0.66913	12.236	0.1562
x	-1.1348	0.8363	0.3215	0.06241	1.656	0.1748
abf\$sexe	-0.1480	0.8151	0.8624	0.17455	4.261	0.8559
abf\$smk	1.1179	1.1258	3.0583	0.33668	27.780	0.3207
abf\$edad	-0.6427	1.5188	0.5259	0.02680	10.320	0.6722

```

GlmWithOr(x = abf$cp20a8, y = abf$idx.sp)

```

```

      Y
x      0  1
      0 12 29
      1  6  7

```

```

Crude OR : 0.4828
Crude PPV : 0.5385   NPV : 0.2927

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.1083	0.7497	3.0292	0.69696	13.166	0.1393
x	-0.9275	0.6903	0.3955	0.10223	1.530	0.1791
abf\$sexe	-0.1701	0.8136	0.8436	0.17124	4.156	0.8344
abf\$smk	1.4184	1.1511	4.1305	0.43267	39.433	0.2179
abf\$edad	-0.6867	1.5231	0.5032	0.02543	9.959	0.6521

```

GlmWithOr(x = abf$cp20a16, y = abf$idx.sp)

```

```

      Y
x      0  1
      0  7 25
      1 11 11

```

```

Crude OR : 0.28
Crude PPV : 0.5   NPV : 0.2188

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.31341	0.7839	3.7188	0.8001	17.2853	0.09385
x	-1.31628	0.6611	0.2681	0.0734	0.9796	0.04646
abf\$sexe	-0.06637	0.8366	0.9358	0.1816	4.8223	0.93676
abf\$smk	1.56288	1.1611	4.7725	0.4902	46.4626	0.17830
abf\$edad	0.36381	1.5633	1.4388	0.0672	30.8069	0.81598

GlmWithOr(x = abf\$cp20a32, y = abf\$idx.sp)

	Y
x	0 1
	0 5 20
	1 13 16

Crude OR : 0.3077
Crude PPV : 0.5517 NPV : 0.2

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.46516	0.8270	4.3282	0.85577	21.891	0.07646
x	-1.11101	0.6610	0.3292	0.09012	1.203	0.09281
abf\$sexe	-0.14106	0.8258	0.8684	0.17212	4.382	0.86437
abf\$smk	1.32265	1.1387	3.7534	0.40289	34.967	0.24541
abf\$edad	0.05041	1.5374	1.0517	0.05167	21.408	0.97384

GlmWithOr(x = abf\$an_rhin1, y = abf\$idx.sp)

	Y
x	0 1
	0 8 21
	1 10 16

Crude OR : 0.6095
Crude PPV : 0.6154 NPV : 0.2759

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.0894	0.7799	2.9725	0.64451	13.709	0.1625
x	-0.3470	0.6201	0.7068	0.20964	2.383	0.5758
abf\$sexe	-0.2434	0.8018	0.7839	0.16284	3.774	0.7614
abf\$smk	1.2729	1.1177	3.5710	0.39937	31.931	0.2548
abf\$edad	-0.2777	1.5453	0.7575	0.03665	15.658	0.8574

GlmWithOr(x = abf\$an_brcol, y = abf\$idx.sp)

	Y
x	0 1
	0 15 35
	1 3 2

Crude OR : 0.2857
Crude PPV : 0.4 NPV : 0.3

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.9472	0.7275	2.5785	0.61957	10.731	0.1929
x	-1.2842	1.2454	0.2769	0.02411	3.180	0.3025
abf\$sexe	-0.1564	0.8085	0.8552	0.17534	4.171	0.8466
abf\$smk	1.2304	1.1164	3.4225	0.38375	30.524	0.2704
abf\$edad	0.7505	1.9150	2.1181	0.04965	90.364	0.6951

```
GlmWithOr(x = abf$asthfam, y = abf$idx.sp)
```

```
      Y
x      0  1
  0 14 28
  1  4  9
```

```
Crude OR : 1.125
Crude PPV : 0.6923    NPV : 0.3333
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.94744	0.7309	2.5791	0.61564	10.805	0.1949
x	-0.06703	0.7130	0.9352	0.23121	3.782	0.9251
abf\$sexe	-0.25399	0.8112	0.7757	0.15820	3.803	0.7542
abf\$smk	1.33598	1.1166	3.8037	0.42635	33.935	0.2315
abf\$edad	-0.47648	1.5207	0.6210	0.03152	12.232	0.7540

```
GlmWithOr(x = abf$asthmere, y = abf$idx.sp)
```

```
      Y
x      0  1
  0 17 35
  1  1  2
```

```
Crude OR : 0.9714
Crude PPV : 0.6667    NPV : 0.3269
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.93983	0.7265	2.5596	0.61621	10.632	0.1958
x	0.06877	1.2828	1.0712	0.08669	13.236	0.9572
abf\$sexe	-0.27273	0.8045	0.7613	0.15730	3.684	0.7346
abf\$smk	1.35410	1.1138	3.8733	0.43652	34.367	0.2241
abf\$edad	-0.45780	1.5137	0.6327	0.03256	12.293	0.7623

```
GlmWithOr(x = abf$asthpere, y = abf$idx.sp)
```

```
      Y
x      0  1
  0 17 34
  1  1  3
```

```
Crude OR : 1.5
Crude PPV : 0.75    NPV : 0.3333
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.94008	0.7266	2.5602	0.61631	10.635	0.1957
x	0.01299	1.1091	1.0131	0.11524	8.906	0.9907
abf\$sexe	-0.26874	0.8072	0.7643	0.15710	3.719	0.7392
abf\$smk	1.34986	1.1160	3.8569	0.43283	34.368	0.2264
abf\$edad	-0.46041	1.5142	0.6310	0.03244	12.273	0.7611

```
GlmWithOr(x = 2 - abf$cig1, y = abf$idx.sp)
```

```
      Y
x      0  1
  0 15 25
  1  3 12
```

Crude OR : 2.4
 Crude PPV : 0.8 NPV : 0.375

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.8639	0.7445	2.3725	0.55140	10.208	0.2459
x	0.4571	1.0128	1.5795	0.21697	11.498	0.6518
abf\$sexe	-0.2439	0.8018	0.7836	0.16276	3.772	0.7610
abf\$smk	0.9440	1.4318	2.5704	0.15531	42.539	0.5097
abf\$edad	-0.3989	1.5173	0.6710	0.03429	13.130	0.7926

GlmWithOr(x = 2 - abf\$cigact1, y = abf\$idx.sp)

	Y
x	0 1
	0 2 5
	1 1 7

Crude OR : 2.8
 Crude PPV : 0.875 NPV : 0.2857

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	18.921	4915.174	1.649e+08	0.00000	Inf	0.9969
x	-0.426	1.709	6.531e-01	0.02294	18.59	0.8031
abf\$sexe	-18.148	4915.174	1.313e-08	0.00000	Inf	0.9971
abf\$smk	1.525	1.692	4.594e+00	0.16673	126.58	0.3675

GlmWithOr(x = abf\$ns_rhin1, y = abf\$idx.sp)

	Y
x	0 1
	0 3 14
	1 15 23

Crude OR : 0.3286
 Crude PPV : 0.6053 NPV : 0.1765

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.92750	0.9692	6.8723	1.02825	45.931	0.04673
x	-1.35133	0.7698	0.2589	0.05726	1.170	0.07918
abf\$sexe	-0.29523	0.8226	0.7444	0.14844	3.733	0.71968
abf\$smk	1.37886	1.1287	3.9704	0.43462	36.270	0.22183
abf\$edad	-0.08082	1.5248	0.9224	0.04645	18.316	0.95773

GlmWithOr(x = abf\$po_brcol, y = abf\$idx.sp)

	Y
x	0 1
	0 15 33
	1 3 4

Crude OR : 0.6061
 Crude PPV : 0.5714 NPV : 0.3125

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.0506	0.7517	2.8593	0.65521	12.478	0.1623
x	-0.5468	0.8630	0.5788	0.10665	3.141	0.5264
abf\$sexe	-0.3058	0.8034	0.7365	0.15253	3.556	0.7034

```
abf$smk      1.2765  1.1156 3.5840 0.40246 31.916 0.2526
abf$edad     -0.2176  1.5852 0.8044 0.03599 17.981 0.8908
```

```
GlmWithOr(x = abf$po_rhin1, y = abf$idx.sp)
```

```
      Y
x      0  1
      0  7 23
      1 11 14
```

```
Crude OR : 0.3874
Crude PPV : 0.56   NPV : 0.2333
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.9806	0.9209	7.2467	1.19198	44.0573	0.03150
x	-1.4535	0.6820	0.2337	0.06140	0.8898	0.03307
abf\$sexe	-0.7455	0.8623	0.4745	0.08755	2.5716	0.38727
abf\$smk	1.7123	1.1607	5.5415	0.56973	53.8996	0.14015
abf\$edad	0.2398	1.5621	1.2710	0.05950	27.1515	0.87798

```
GlmWithOr(x = abf$pvemsp, y = abf$idx.sp)
```

```
      Y
x      0  1
      0 17 35
      1  1  1
```

```
Crude OR : 0.4857
Crude PPV : 0.5   NPV : 0.3269
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.9415	0.7268	2.5637	0.61697	10.653	0.1952
x	-0.3132	1.3610	0.7311	0.05076	10.530	0.8180
abf\$sexe	-0.2467	0.8040	0.7813	0.16162	3.778	0.7589
abf\$smk	1.1803	1.1223	3.2554	0.36080	29.372	0.2930
abf\$edad	-0.4748	1.5131	0.6220	0.03205	12.071	0.7537

```
GlmWithOr(x = abf$eib_time, y = abf$idx.sp)
```

```
      Y
x      0  1
      0  6 18
      1 12 19
```

```
Crude OR : 0.5278
Crude PPV : 0.6129   NPV : 0.25
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.2327	0.7983	3.4304	0.71758	16.399	0.1225
x	-0.6412	0.6399	0.5267	0.15027	1.846	0.3163
abf\$sexe	-0.1977	0.8093	0.8206	0.16797	4.009	0.8070
abf\$smk	1.4867	1.1229	4.4224	0.48960	39.946	0.1855
abf\$edad	-0.1537	1.5394	0.8575	0.04197	17.521	0.9205

```
GlmWithOr(x = abf$ess_time, y = abf$idx.sp)
```

```
      Y
```

```

x      0  1
  0 10 28
  1  8  9

```

Crude OR : 0.4018
 Crude PPV : 0.5294 NPV : 0.2632

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.9980	0.7334	2.7128	0.64435	11.421	0.1736
x	-0.5681	0.6773	0.5666	0.15024	2.137	0.4016
abf\$sexe	-0.1249	0.8214	0.8826	0.17645	4.415	0.8792
abf\$smk	1.3036	1.1139	3.6824	0.41491	32.683	0.2419
abf\$edad	-0.0348	1.5915	0.9658	0.04268	21.857	0.9826

GlmWithOr(x = abf\$opp_time, y = abf\$idx.sp)

```

      Y
x      0  1
  0 14 35
  1  4  2

```

Crude OR : 0.2
 Crude PPV : 0.3333 NPV : 0.2857

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.0754	0.7490	2.9312	0.67523	12.724	0.1511
x	-1.4573	1.1298	0.2329	0.02544	2.132	0.1971
abf\$sexe	-0.2636	0.8143	0.7683	0.15575	3.790	0.7461
abf\$smk	1.2094	1.1161	3.3515	0.37601	29.873	0.2786
abf\$edad	0.8585	1.8277	2.3596	0.06563	84.836	0.6386

GlmWithOr(x = abf\$rhic_tm, y = abf\$idx.sp)

```

      Y
x      0  1
  0  2 13
  1 16 24

```

Crude OR : 0.2308
 Crude PPV : 0.6 NPV : 0.1333

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	2.0940	1.0566	8.1175	1.02332	64.393	0.04750
x	-1.4380	0.8662	0.2374	0.04347	1.296	0.09688
abf\$sexe	-0.3065	0.8193	0.7360	0.14773	3.667	0.70831
abf\$smk	1.2961	1.1287	3.6551	0.40005	33.395	0.25085
abf\$edad	-0.1540	1.5213	0.8573	0.04347	16.907	0.91939

GlmWithOr(x = abf\$sil_time, y = abf\$idx.sp)

```

      Y
x      0  1
  0  8 25
  1 10 12

```

Crude OR : 0.384
 Crude PPV : 0.5455 NPV : 0.2424

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.3533	0.8063	3.870	0.79684	18.797	0.09328
x	-0.9038	0.6366	0.405	0.11630	1.411	0.15571
abf\$sexe	-0.3452	0.8163	0.708	0.14296	3.507	0.67235
abf\$smk	1.4247	1.1257	4.157	0.45763	37.755	0.20566
abf\$edad	0.0755	1.5571	1.078	0.05098	22.812	0.96133

GlmWithOr(x = abf\$tr_es_tm, y = abf\$idx.sp)

	Y
x	0 1
	0 13 33
	1 5 4

Crude OR : 0.3152
Crude PPV : 0.4444 NPV : 0.2826

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.0622	0.7435	2.8927	0.67369	12.421	0.1531
x	-1.2786	0.8756	0.2784	0.05005	1.549	0.1442
abf\$sexe	-0.1986	0.8132	0.8198	0.16655	4.036	0.8070
abf\$smk	1.4188	1.1349	4.1324	0.44690	38.211	0.2112
abf\$edad	0.6548	1.6934	1.9247	0.06966	53.181	0.6990

GlmWithOr(x = abf\$tr_ne_tm, y = abf\$idx.sp)

	Y
x	0 1
	0 2 14
	1 16 23

Crude OR : 0.2054
Crude PPV : 0.5897 NPV : 0.125

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	2.1778	1.0615	8.8270	1.10215	70.695	0.04021
x	-1.5363	0.8653	0.2152	0.03947	1.173	0.07582
abf\$sexe	-0.3347	0.8221	0.7155	0.14283	3.585	0.68391
abf\$smk	1.3237	1.1312	3.7574	0.40929	34.495	0.24191
abf\$edad	-0.1228	1.5223	0.8845	0.04476	17.478	0.93573

GlmWithOr(x = abf\$tr_pe_tm, y = abf\$idx.sp)

	Y
x	0 1
	0 8 20
	1 10 17

Crude OR : 0.68
Crude PPV : 0.6296 NPV : 0.2857

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.9946	0.7584	2.7037	0.61146	11.955	0.1897
x	-0.1604	0.6089	0.8518	0.25823	2.810	0.7922
abf\$sexe	-0.2439	0.8049	0.7836	0.16178	3.795	0.7619
abf\$smk	1.3752	1.1142	3.9560	0.44549	35.129	0.2171
abf\$edad	-0.4633	1.5105	0.6292	0.03259	12.148	0.7590

```
GlmWithOr(x = abf$str_rhitm, y = abf$idx.sp)
```

```
      Y
x      0  1
  0  4 18
  1 14 19
```

```
Crude OR : 0.3016
Crude PPV : 0.5758    NPV : 0.1818
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.26856	0.7854	3.5557	0.76281	16.575	0.1063
x	-1.02310	0.6856	0.3595	0.09377	1.378	0.1357
abf\$sexe	0.06870	0.8506	1.0711	0.20221	5.674	0.9356
abf\$smk	1.40802	1.1229	4.0879	0.45261	36.921	0.2099
abf\$edad	0.03715	1.5440	1.0378	0.05033	21.400	0.9808

```
GlmWithOr(x = abf$str_si_tm, y = abf$idx.sp)
```

```
      Y
x      0  1
  0 13 33
  1  5  4
```

```
Crude OR : 0.3152
Crude PPV : 0.4444    NPV : 0.2826
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.11679	0.7508	3.0550	0.70128	13.309	0.1369
x	-1.24133	0.7937	0.2890	0.06100	1.369	0.1178
abf\$sexe	-0.18740	0.8171	0.8291	0.16714	4.113	0.8186
abf\$smk	1.09181	1.1255	2.9797	0.32823	27.050	0.3320
abf\$edad	0.08372	1.6292	1.0873	0.04463	26.492	0.9590

```
GlmWithOr(x = abf$str_ye_tm, y = abf$idx.sp)
```

```
      Y
x      0  1
  0  5 24
  1 13 13
```

```
Crude OR : 0.2083
Crude PPV : 0.5    NPV : 0.1724
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.53080	0.8361	4.6219	0.89764	23.7976	0.06713
x	-1.50140	0.6504	0.2228	0.06228	0.7972	0.02097
abf\$sexe	-0.08665	0.8610	0.9170	0.16961	4.9579	0.91984
abf\$smk	1.53979	1.1458	4.6636	0.49363	44.0597	0.17900
abf\$edad	-0.49588	1.6094	0.6090	0.02599	14.2740	0.75799

```
GlmWithOr(x = abf$froid1, y = abf$idx.sp)
```

```
      Y
x      0  1
  0 10 29
  1  8  8
```

Crude OR : 0.3448
 Crude PPV : 0.5 NPV : 0.2564

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.1388	0.7602	3.1231	0.70385	13.857	0.1341
x	-1.1815	0.6648	0.3068	0.08337	1.129	0.0755
abf\$sexe	-0.0752	0.8334	0.9276	0.18110	4.751	0.9281
abf\$smk	1.5256	1.1418	4.5980	0.49054	43.098	0.1815
abf\$edad	-0.2563	1.5744	0.7739	0.03536	16.938	0.8707

GlmWithOr(x = abf\$fumeel, y = abf\$idx.sp)

	Y
x	0 1
	0 17 34
	1 1 3

Crude OR : 1.5
 Crude PPV : 0.75 NPV : 0.3333

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.9367	0.7261	2.552e+00	0.6148	10.590	0.1970
x	15.5550	1500.6645	5.694e+06	0.0000	Inf	0.9917
abf\$sexe	-0.3220	0.7995	7.247e-01	0.1512	3.473	0.6872
abf\$smk	1.2248	1.1215	3.403e+00	0.3779	30.657	0.2748
abf\$edad	-15.9805	1500.6652	1.148e-07	0.0000	Inf	0.9915

GlmWithOr(x = abf\$mities1, y = abf\$idx.sp)

	Y
x	0 1
	0 8 21
	1 10 16

Crude OR : 0.6095
 Crude PPV : 0.6154 NPV : 0.2759

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.4970	0.8672	4.4683	0.81654	24.452	0.0843
x	-0.8339	0.6216	0.4344	0.12845	1.469	0.1797
abf\$sexe	-0.4196	0.8254	0.6573	0.13037	3.314	0.6112
abf\$smk	1.3026	1.1200	3.6789	0.40958	33.044	0.2448
abf\$edad	-0.5778	1.5249	0.5611	0.02825	11.144	0.7047

GlmWithOr(x = abf\$molds1, y = abf\$idx.sp)

	Y
x	0 1
	0 10 32
	1 8 5

Crude OR : 0.1953
 Crude PPV : 0.3846 NPV : 0.2381

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	2.0473	0.9574	7.7466	1.18635	50.5837	0.032479

x	-2.0503	0.7730	0.1287	0.02829	0.5855	0.007989
abf\$sexe	-0.9360	0.9528	0.3922	0.06060	2.5383	0.325924
abf\$smk	1.3432	1.1771	3.8314	0.38142	38.4867	0.253815
abf\$edad	-0.3003	1.5794	0.7406	0.03351	16.3674	0.849194

GlmWithOr(x = abf\$natopie2 - 1, y = abf\$idx.sp)

	Y
x	0 1
	0 1 17
	1 16 20

Crude OR : 0.07353
Crude PPV : 0.5556 NPV : 0.05556

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	2.91484	1.2401	18.44588	1.62304	209.6373	0.01875
x	-2.53464	1.0715	0.07929	0.00971	0.6475	0.01800
abf\$sexe	-0.22708	0.8643	0.79686	0.14645	4.3357	0.79276
abf\$smk	1.14156	1.1719	3.13165	0.31493	31.1414	0.33002
abf\$edad	0.07489	1.5252	1.07777	0.05423	21.4184	0.96084

GlmWithOr(x = abf\$pets1, y = abf\$idx.sp)

	Y
x	0 1
	0 5 29
	1 12 8

Crude OR : 0.1149
Crude PPV : 0.4 NPV : 0.1471

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.5529	0.8331	4.7250	0.92317	24.1839	0.062320
x	-2.0208	0.7034	0.1325	0.03339	0.5261	0.004065
abf\$sexe	0.1230	0.8898	1.1309	0.19772	6.4686	0.890025
abf\$smk	1.1899	1.1874	3.2868	0.32067	33.6895	0.316282
abf\$edad	0.7193	1.5716	2.0529	0.09432	44.6851	0.647203

GlmWithOr(x = abf\$pollens1, y = abf\$idx.sp)

	Y
x	0 1
	0 6 19
	1 12 18

Crude OR : 0.4737
Crude PPV : 0.6 NPV : 0.24

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.6814	0.9106	5.3732	0.90189	32.012	0.06481
x	-0.9509	0.6573	0.3864	0.10654	1.401	0.14800
abf\$sexe	-0.5093	0.8257	0.6009	0.11911	3.032	0.53737
abf\$smk	1.1413	1.1296	3.1309	0.34211	28.654	0.31231
abf\$edad	-0.1073	1.5361	0.8982	0.04425	18.234	0.94429

GlmWithOr(x = abf\$toux1, y = abf\$idx.sp)

```

      Y
x      0  1
  0 16 36
  1  2  1

```

Crude OR : 0.2222
Crude PPV : 0.3333 NPV : 0.3077

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.1022	0.7610	3.0107	0.67744	13.380	0.1475
x	-1.4854	1.4139	0.2264	0.01417	3.618	0.2935
abf\$sexe	-0.3583	0.8212	0.6988	0.13974	3.495	0.6626
abf\$smk	1.2773	1.1119	3.5871	0.40577	31.711	0.2506
abf\$edad	-0.5694	1.5195	0.5659	0.02880	11.120	0.7079

GlmWithOr(x = abf\$SyRes, y = abf\$idx.sp)

```

      Y
x      0  1
  0 10 29
  1  8  8

```

Crude OR : 0.3448
Crude PPV : 0.5 NPV : 0.2564

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.23578	0.7834	3.4411	0.74108	15.978	0.1147
x	-0.82497	0.6719	0.4382	0.11744	1.635	0.2195
abf\$sexe	-0.31630	0.8120	0.7288	0.14840	3.580	0.6969
abf\$smk	1.22700	1.1196	3.4110	0.38007	30.612	0.2731
abf\$edad	0.09702	1.5766	1.1019	0.05014	24.218	0.9509

GlmWithOr(x = abf\$SyResTra, y = abf\$idx.sp)

```

      Y
x      0  1
  0 13 34
  1  5  3

```

Crude OR : 0.2294
Crude PPV : 0.375 NPV : 0.2766

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.1858	0.7696	3.2733	0.72431	14.793	0.12335
x	-1.6813	0.8757	0.1861	0.03345	1.036	0.05485
abf\$sexe	-0.2257	0.8347	0.7980	0.15543	4.097	0.78688
abf\$smk	1.0611	1.1240	2.8894	0.31918	26.157	0.34518
abf\$edad	0.3374	1.7110	1.4014	0.04899	40.082	0.84365

GlmWithOr(x = abf\$SyResFin, y = abf\$idx.sp)

```

      Y
x      0  1
  0 11 24
  1  7 13

```

Crude OR : 0.8512
 Crude PPV : 0.65 NPV : 0.3143

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.8422	0.7533	2.3214	0.53035	10.161	0.2636
x	0.3183	0.6630	1.3748	0.37489	5.042	0.6312
abf\$sexe	-0.2797	0.8004	0.7560	0.15747	3.629	0.7267
abf\$smk	1.3847	1.1129	3.9938	0.45086	35.377	0.2134
abf\$edad	-0.6743	1.5789	0.5095	0.02308	11.250	0.6693

Referent : 203 Incident : 22

GlmWithOr(x = abf\$asthmemd, y = abf\$ididx.sp)

	Y	
x	0	1
0	189	20
1	14	2

Crude OR : 1.35
 Crude PPV : 0.125 NPV : 0.9043

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4376	0.7551	0.08737	0.01989	0.3838	0.001246
x	0.1422	0.8572	1.15278	0.21481	6.1864	0.868272
abf\$sexe	0.3062	0.7876	1.35824	0.29011	6.3590	0.697451
abf\$smk	-0.2230	0.6632	0.80009	0.21807	2.9356	0.736665
abf\$edad	-1.0896	1.0309	0.33634	0.04459	2.5368	0.290529

GlmWithOr(x = abf\$cp20a8, y = abf\$ididx.sp)

	Y	
x	0	1
0	175	17
1	16	5

Crude OR : 3.217
 Crude PPV : 0.2381 NPV : 0.9115

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.3813	0.7538	0.09243	0.02110	0.4050	0.001582
x	1.2339	0.5917	3.43467	1.07694	10.9541	0.037048
abf\$sexe	0.1120	0.8020	1.11854	0.23225	5.3869	0.888919
abf\$smk	-0.2288	0.6739	0.79546	0.21233	2.9800	0.734168
abf\$edad	-1.1666	1.0467	0.31143	0.04004	2.4226	0.265035

GlmWithOr(x = abf\$cp20a16, y = abf\$ididx.sp)

	Y	
x	0	1
0	147	15
1	44	7

n Crude OR : 1.559
 Crude PPV : 0.1373 NPV : 0.9074

	coefi	s.d.coe	or	lcl	ucl	p
--	-------	---------	----	-----	-----	---

(Intercept)	-2.4035	0.7543	0.0904	0.02061	0.3965	0.001441
x	0.3875	0.5107	1.4733	0.54145	4.0089	0.448023
abf\$sexe	0.2091	0.8045	1.2326	0.25472	5.9648	0.794883
abf\$smk	-0.2148	0.6675	0.8067	0.21802	2.9846	0.747572
abf\$edad	-0.9931	1.0373	0.3704	0.04849	2.8293	0.338372

GlmWithOr(x = abf\$cp20a32, y = abf\$idx.sp)

	Y	
x	0	1
0	131	15
1	60	7

Crude OR : 1.019
Crude PPV : 0.1045 NPV : 0.8973

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.38600	0.7549	0.0920	0.02095	0.4039	0.001573
x	-0.01213	0.5051	0.9879	0.36714	2.6585	0.980845
abf\$sexe	0.31716	0.8003	1.3732	0.28611	6.5910	0.691879
abf\$smk	-0.21320	0.6690	0.8080	0.21774	2.9984	0.749979
abf\$edad	-1.03518	1.0376	0.3552	0.04647	2.7142	0.318440

GlmWithOr(x = abf\$an_rhin1, y = abf\$idx.sp)

	Y	
x	0	1
0	149	12
1	54	10

Crude OR : 2.299
Crude PPV : 0.1562 NPV : 0.9255

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.6751	0.7774	0.0689	0.01501	0.3162	0.0005794
x	1.0498	0.4719	2.8571	1.13302	7.2048	0.0261078
abf\$sexe	0.1431	0.7978	1.1538	0.24158	5.5110	0.8576488
abf\$smk	-0.2590	0.6688	0.7718	0.20807	2.8630	0.6985616
abf\$edad	-1.1650	1.0336	0.3119	0.04114	2.3649	0.2596623

GlmWithOr(x = abf\$an_brcol, y = abf\$idx.sp)

	Y	
x	0	1
0	194	21
1	9	1

Crude OR : 1.026
Crude PPV : 0.1 NPV : 0.9023

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4310	0.7539	0.08795	0.02007	0.3854	0.001261
x	0.2331	0.9741	1.26249	0.18709	8.5195	0.810893
abf\$sexe	0.2959	0.7899	1.34435	0.28584	6.3226	0.707955
abf\$smk	-0.2235	0.6635	0.79973	0.21787	2.9356	0.736240
abf\$edad	-1.0811	1.0309	0.33921	0.04497	2.5584	0.294301

GlmWithOr(x = abf\$asthfam, y = abf\$idx.sp)

	Y	
x	0	1
0	164	16
1	39	6

Crude OR : 1.577
Crude PPV : 0.1333 NPV : 0.9111

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4782	0.7589	0.0839	0.01896	0.3713	0.001093
x	0.3280	0.5315	1.3881	0.48984	3.9337	0.537175
abf\$sexe	0.2727	0.7905	1.3135	0.27898	6.1844	0.730096
abf\$smk	-0.2008	0.6648	0.8181	0.22230	3.0106	0.762604
abf\$edad	-1.0674	1.0311	0.3439	0.04558	2.5951	0.300603

GlmWithOr(x = abf\$asthmere, y = abf\$idx.sp)

	Y	
x	0	1
0	195	19
1	8	3

Crude OR : 3.849
Crude PPV : 0.2727 NPV : 0.9112

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.5489	0.7657	0.07816	0.01743	0.3505	0.0008714
x	1.5207	0.7229	4.57540	1.10942	18.8695	0.0354128
abf\$sexe	0.2928	0.7956	1.34020	0.28180	6.3739	0.7128446
abf\$smk	-0.1745	0.6694	0.83984	0.22615	3.1188	0.7942930
abf\$edad	-1.0677	1.0353	0.34379	0.04519	2.6157	0.3024183

GlmWithOr(x = abf\$asthpere, y = abf\$idx.sp)

	Y	
x	0	1
0	197	21
1	6	1

Crude OR : 1.563
Crude PPV : 0.1429 NPV : 0.9037

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4298	0.7539	0.08805	0.02009	0.3859	0.001268
x	0.2816	1.1179	1.32523	0.14818	11.8525	0.801117
abf\$sexe	0.2977	0.7892	1.34673	0.28677	6.3246	0.706022
abf\$smk	-0.2380	0.6666	0.78822	0.21344	2.9109	0.721072
abf\$edad	-1.0694	1.0322	0.34320	0.04539	2.5952	0.300171

GlmWithOr(x = 2 - abf\$cig1, y = abf\$idx.sp)

	Y	
x	0	1
0	145	16
1	57	6

Crude OR : 0.954
Crude PPV : 0.09524 NPV : 0.9006

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.44315	0.7684	0.08689	0.01927	0.3918	0.001476
x	0.06037	0.6820	1.06223	0.27907	4.0432	0.929460
abf\$sexe	0.31976	0.7893	1.37680	0.29308	6.4678	0.685404
abf\$smk	-0.27485	0.8524	0.75968	0.14291	4.0383	0.747115
abf\$edad	-1.09726	1.0356	0.33378	0.04385	2.5410	0.289374

GlmWithOr(x = 2 - abf\$cigact1, y = abf\$idx.sp)

	Y
x	0 1
	0 39 1
	1 19 5

Crude OR : 10.26
Crude PPV : 0.2083 NPV : 0.975

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.2402	1.668	3.916e-02	0.001491	1.028	0.05200
x	2.5450	1.317	1.274e+01	0.964114	168.423	0.05333
abf\$sexe	-0.9881	1.101	3.723e-01	0.042981	3.224	0.36968
abf\$smk	0.5717	1.009	1.771e+00	0.245068	12.803	0.57102
abf\$edad	-17.5695	2406.653	2.342e-08	0.000000	Inf	0.99418

GlmWithOr(x = abf\$ns_rhin1, y = abf\$idx.sp)

	Y
x	0 1
	0 121 8
	1 82 14

Crude OR : 2.582
Crude PPV : 0.1458 NPV : 0.938

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.8163	0.8004	0.05983	0.01246	0.2872	0.0004336
x	1.0842	0.4911	2.95703	1.12943	7.7420	0.0272571
abf\$sexe	0.1136	0.8011	1.12026	0.23303	5.3855	0.8872757
abf\$smk	-0.2109	0.6701	0.80988	0.21779	3.0117	0.7530085
abf\$edad	-1.3272	1.0381	0.26521	0.03467	2.0285	0.2010478

GlmWithOr(x = abf\$po_brco1, y = abf\$idx.sp)

	Y
x	0 1
	0 199 22
	1 4 0

Crude OR : 0
Crude PPV : 0 NPV : 0.9005

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4297	0.7538	8.806e-02	0.02010	0.3858	0.001267
x	-14.2441	1184.0521	6.515e-07	0.00000	Inf	0.990402

abf\$sexe	0.3319	0.7873	1.394e+00	0.29781	6.5209	0.673398
abf\$smk	-0.2484	0.6637	7.800e-01	0.21240	2.8648	0.708225
abf\$edad	-1.0461	1.0325	3.513e-01	0.04644	2.6580	0.310994

GlmWithOr(x = abf\$po_rhin1, y = abf\$idx.sp)

	Y	
x	0	1
0	163	17
1	40	5

Crude OR : 1.199
Crude PPV : 0.1111 NPV : 0.9056

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4745	0.7577	0.0842	0.01907	0.3718	0.001091
x	0.3770	0.5495	1.4579	0.49662	4.2801	0.492624
abf\$sexe	0.2660	0.7908	1.3048	0.27695	6.1473	0.736554
abf\$smk	-0.1791	0.6672	0.8360	0.22610	3.0912	0.788362
abf\$edad	-1.1623	1.0383	0.3128	0.04087	2.3934	0.262954

GlmWithOr(x = abf\$pvemsp, y = abf\$idx.sp)

	Y	
x	0	1
0	189	22
1	5	0

Crude OR : 0
Crude PPV : 0 NPV : 0.8957

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.3417	0.7560	9.616e-02	0.02185	0.4232	0.001953
x	-14.2966	1005.9264	6.181e-07	0.00000	Inf	0.988661
abf\$sexe	0.2690	0.7908	1.309e+00	0.27776	6.1656	0.733747
abf\$smk	-0.1525	0.6671	8.586e-01	0.23225	3.1740	0.819204
abf\$edad	-1.0002	1.0350	3.678e-01	0.04838	2.7962	0.333826

GlmWithOr(x = abf\$eib_time, y = abf\$idx.sp)

	Y	
x	0	1
0	139	13
1	64	9

Crude OR : 1.504
Crude PPV : 0.1233 NPV : 0.9145

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.5003	0.7623	0.08206	0.01842	0.3656	0.001038
x	0.3556	0.4757	1.42700	0.56175	3.6250	0.454733
abf\$sexe	0.2400	0.7935	1.27130	0.26845	6.0206	0.762250
abf\$smk	-0.2250	0.6643	0.79853	0.21721	2.9357	0.734833
abf\$edad	-1.0590	1.0323	0.34681	0.04586	2.6229	0.304968

GlmWithOr(x = abf\$ess_time, y = abf\$idx.sp)

	Y	
x	0	1
	0 165	16
	1 38	6

Crude OR : 1.628
Crude PPV : 0.1364 NPV : 0.9116

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4673	0.7563	0.08482	0.01926	0.3735	0.001106
x	0.4607	0.5254	1.58512	0.56600	4.4392	0.380629
abf\$sexe	0.2322	0.7935	1.26134	0.26634	5.9736	0.769820
abf\$smk	-0.2728	0.6669	0.76122	0.20601	2.8128	0.682446
abf\$edad	-1.0389	1.0314	0.35386	0.04687	2.6715	0.313819

GlmWithOr(x = abf\$opp_time, y = abf\$idx.sp)

	Y	
x	0	1
	0 192	20
	1 11	2

Crude OR : 1.745
Crude PPV : 0.1538 NPV : 0.9057

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4873	0.7626	0.08314	0.01865	0.3706	0.001109
x	0.6149	0.8098	1.84953	0.37823	9.0442	0.447641
abf\$sexe	0.3275	0.7883	1.38752	0.29598	6.5047	0.677786
abf\$smk	-0.2498	0.6652	0.77894	0.21148	2.8691	0.707262
abf\$edad	-1.1022	1.0321	0.33214	0.04394	2.5109	0.285543

GlmWithOr(x = abf\$rhic_tm, y = abf\$idx.sp)

	Y	
x	0	1
	0 153	15
	1 50	7

Crude OR : 1.428
Crude PPV : 0.1228 NPV : 0.9107

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4983	0.7653	0.08222	0.01835	0.3685	0.001096
x	0.2891	0.4966	1.33522	0.50445	3.5342	0.560491
abf\$sexe	0.2909	0.7883	1.33767	0.28532	6.2714	0.712087
abf\$smk	-0.2344	0.6640	0.79101	0.21528	2.9064	0.724020
abf\$edad	-1.0681	1.0314	0.34366	0.04552	2.5947	0.300407

GlmWithOr(x = abf\$sil_time, y = abf\$idx.sp)

	Y	
x	0	1
	0 151	16
	1 52	6

Crude OR : 1.089

Crude PPV : 0.1034 NPV : 0.9042

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.43492	0.7595	0.0876	0.01977	0.3881	0.001345
x	0.02288	0.5178	1.0231	0.37086	2.8227	0.964754
abf\$sexe	0.30747	0.7897	1.3600	0.28931	6.3930	0.697004
abf\$smk	-0.22324	0.6632	0.7999	0.21802	2.9350	0.736434
abf\$edad	-1.08104	1.0333	0.3392	0.04477	2.5708	0.295477

GlmWithOr(x = abf\$str_es_tm, y = abf\$idx.sp)

	Y	
x	0	1
	0 199	21
	1 4	1

Crude OR : 2.369

Crude PPV : 0.2 NPV : 0.9045

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4787	0.7597	0.08386	0.01892	0.3717	0.001104
x	0.9131	1.1642	2.49204	0.25446	24.4056	0.432837
abf\$sexe	0.3278	0.7896	1.38784	0.29527	6.5232	0.678085
abf\$smk	-0.1867	0.6658	0.82971	0.22501	3.0596	0.779193
abf\$edad	-1.1245	1.0338	0.32483	0.04283	2.4638	0.276717

GlmWithOr(x = abf\$str_ne_tm, y = abf\$idx.sp)

	Y	
x	0	1
	0 161	15
	1 42	7

Crude OR : 1.789

Crude PPV : 0.1429 NPV : 0.9148

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.5682	0.7699	0.07667	0.01695	0.3467	0.0008509
x	0.5626	0.5013	1.75521	0.65705	4.6888	0.2617772
abf\$sexe	0.3024	0.7891	1.35309	0.28818	6.3531	0.7015559
abf\$smk	-0.2782	0.6672	0.75717	0.20479	2.7995	0.6767243
abf\$edad	-1.0774	1.0321	0.34049	0.04504	2.5742	0.2965577

GlmWithOr(x = abf\$str_pe_tm, y = abf\$idx.sp)

	Y	
x	0	1
	0 168	16
	1 35	6

Crude OR : 1.8

Crude PPV : 0.1463 NPV : 0.913

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4871	0.7571	0.08315	0.01886	0.3667	0.001019
x	0.5889	0.5239	1.80193	0.64538	5.0311	0.260994
abf\$sexe	0.2155	0.7944	1.24053	0.26147	5.8856	0.786142
abf\$smk	-0.2132	0.6654	0.80799	0.21931	2.9769	0.748645

```
abf$edad      -1.0344  1.0331 0.35544 0.04692 2.6926 0.316718
```

```
GlmWithOr(x = abf$str_rhitm, y = abf$idx.sp)
```

```
      Y
x      0  1
  0 166 16
  1  37  6
```

```
Crude OR : 1.682
Crude PPV : 0.1395    NPV : 0.912
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.5531	0.7685	0.07784	0.01726	0.351	0.0008928
x	0.5529	0.5170	1.73827	0.63107	4.788	0.2848473
abf\$sexe	0.2991	0.7887	1.34871	0.28746	6.328	0.7044707
abf\$smk	-0.2470	0.6650	0.78114	0.21218	2.876	0.7103001
abf\$edad	-1.0350	1.0326	0.35524	0.04695	2.688	0.3161787

```
GlmWithOr(x = abf$str_si_tm, y = abf$idx.sp)
```

```
      Y
x      0  1
  0 202 21
  1  1  1
```

```
Crude OR : 9.62
Crude PPV : 0.5    NPV : 0.9058
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4386	0.7542	0.08728	0.01990	0.3828	0.001224
x	2.1632	1.4502	8.69933	0.50711	149.2355	0.135773
abf\$sexe	0.2619	0.7890	1.29944	0.27680	6.1003	0.739898
abf\$smk	-0.1751	0.6657	0.83938	0.22767	3.0947	0.792538
abf\$edad	-1.0476	1.0318	0.35077	0.04642	2.6505	0.309971

```
GlmWithOr(x = abf$str_ye_tm, y = abf$idx.sp)
```

```
      Y
x      0  1
  0 178 18
  1  25  4
```

```
Crude OR : 1.582
Crude PPV : 0.1379    NPV : 0.9082
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4455	0.7551	0.08668	0.01974	0.3808	0.001200
x	0.3932	0.6071	1.48176	0.45079	4.8706	0.517196
abf\$sexe	0.2536	0.7932	1.28867	0.27225	6.0998	0.749173
abf\$smk	-0.2116	0.6634	0.80929	0.22049	2.9705	0.749774
abf\$edad	-1.0602	1.0308	0.34638	0.04593	2.6122	0.303711

```
GlmWithOr(x = abf$froid1, y = abf$idx.sp)
```

```
      Y
x      0  1
```

```

0 177 17
1 26 5

```

```

Crude OR : 2.002
Crude PPV : 0.1613 NPV : 0.9124

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4424	0.7540	0.08696	0.01984	0.3812	0.001199
x	0.5857	0.6004	1.79624	0.55373	5.8269	0.329315
abf\$sexe	0.2315	0.7938	1.26054	0.26598	5.9739	0.770533
abf\$smk	-0.2794	0.6685	0.75622	0.20398	2.8035	0.675974
abf\$edad	-1.1289	1.0335	0.32338	0.04266	2.4516	0.274690

```
GlmWithOr(x = abf$fumeel, y = abf$idx.sp)
```

```

      Y
x      0  1
0 193 20
1 10 2

```

```

Crude OR : 1.93
Crude PPV : 0.1667 NPV : 0.9061

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4555	0.7573	0.08582	0.01945	0.3786	0.001185
x	0.3591	0.9166	1.43211	0.23754	8.6342	0.695198
abf\$sexe	0.3157	0.7879	1.37128	0.29274	6.4235	0.688603
abf\$smk	-0.2345	0.6645	0.79093	0.21502	2.9093	0.724131
abf\$edad	-1.0917	1.0311	0.33563	0.04448	2.5324	0.289684

```
GlmWithOr(x = abf$mites1, y = abf$idx.sp)
```

```

      Y
x      0  1
0 147 5
1 55 17

```

```

Crude OR : 9.087
Crude PPV : 0.2361 NPV : 0.9671

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.5529	0.8849	0.02864	0.005055	0.1623	5.946e-05
x	2.2782	0.5586	9.75958	3.265357	29.1697	4.536e-05
abf\$sexe	0.2177	0.8268	1.24320	0.245919	6.2848	7.923e-01
abf\$smk	-0.4155	0.6932	0.66003	0.169647	2.5679	5.489e-01
abf\$edad	-0.3998	1.0795	0.67046	0.080819	5.5620	7.111e-01

```
GlmWithOr(x = abf$molds1, y = abf$idx.sp)
```

```

      Y
x      0  1
0 185 18
1 17 4

```

```

Crude OR : 2.418
Crude PPV : 0.1905 NPV : 0.9113

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.6576	0.7833	0.07012	0.01510	0.3256	0.0006924
x	1.1627	0.6290	3.19865	0.93236	10.9737	0.0645144
abf\$sexe	0.4041	0.7982	1.49802	0.31341	7.1602	0.6126183
abf\$smk	-0.1691	0.6667	0.84442	0.22857	3.1195	0.7997747
abf\$edad	-1.1248	1.0346	0.32473	0.04274	2.4671	0.2769773

GlmWithOr(x = abf\$natopie2 - 1, y = abf\$idx.sp)

	Y	
x	0	1
	0	138
	1	64

Crude OR : 5.75
Crude PPV : 0.2 NPV : 0.9583

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.3032	0.8523	0.03676	0.006918	0.1954	0.0001063
x	1.8700	0.5238	6.48858	2.324152	18.1149	0.0003571
abf\$sexe	0.2247	0.8131	1.25198	0.254401	6.1614	0.7822416
abf\$smk	-0.3700	0.6819	0.69074	0.181502	2.6288	0.5874183
abf\$edad	-1.0841	1.0438	0.33821	0.043723	2.6162	0.2989897

GlmWithOr(x = abf\$pets1, y = abf\$idx.sp)

	Y	
x	0	1
	0	168
	1	34

Crude OR : 1.853
Crude PPV : 0.15 NPV : 0.913

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.5512	0.7654	0.07799	0.01740	0.3496	0.0008588
x	0.8227	0.5226	2.27667	0.81740	6.3411	0.1154452
abf\$sexe	0.2625	0.7913	1.30021	0.27572	6.1314	0.7400613
abf\$smk	-0.2941	0.6676	0.74519	0.20139	2.7573	0.6595098
abf\$edad	-1.1411	1.0331	0.31946	0.04217	2.4199	0.2693505

GlmWithOr(x = abf\$pollens1, y = abf\$idx.sp)

	Y	
x	0	1
	0	148
	1	54

Crude OR : 3.289
Crude PPV : 0.1818 NPV : 0.9367

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.8209	0.7920	0.05955	0.01261	0.2812	0.0003685
x	1.2383	0.4729	3.44988	1.36548	8.7161	0.0088263
abf\$sexe	0.2146	0.7995	1.23936	0.25863	5.9390	0.7883729
abf\$smk	-0.2174	0.6715	0.80460	0.21578	3.0001	0.7460998
abf\$edad	-1.2635	1.0367	0.28266	0.03706	2.1561	0.2229144

```
GlmWithOr(x = abf$toux1, y = abf$idx.sp)
```

```
      Y
x      0      1
  0 193    22
  1  10     0
```

```
Crude OR : 0
Crude PPV : 0    NPV : 0.8977
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4234	0.7536	8.862e-02	0.02023	0.3881	0.001301
x	-15.4583	1192.1923	1.934e-07	0.00000	Inf	0.989655
abf\$sexe	0.3804	0.7877	1.463e+00	0.31237	6.8505	0.629183
abf\$smk	-0.2981	0.6640	7.422e-01	0.20201	2.7271	0.653443
abf\$edad	-1.0583	1.0328	3.470e-01	0.04584	2.6275	0.305531

```
GlmWithOr(x = abf$SyRes, y = abf$idx.sp)
```

```
      Y
x      0      1
  0 159    14
  1  44     8
```

```
Crude OR : 2.065
Crude PPV : 0.1538    NPV : 0.919
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.6402	0.7746	0.07134	0.01563	0.3256	0.0006531
x	0.8797	0.4824	2.41025	0.93637	6.2041	0.0682002
abf\$sexe	0.2554	0.7915	1.29096	0.27365	6.0902	0.7469515
abf\$smk	-0.2935	0.6691	0.74563	0.20090	2.7674	0.6608863
abf\$edad	-1.0710	1.0339	0.34268	0.04517	2.5997	0.3002571

```
GlmWithOr(x = abf$SyResTra, y = abf$idx.sp)
```

```
      Y
x      0      1
  0 201    21
  1   2     1
```

```
Crude OR : 4.786
Crude PPV : 0.3333    NPV : 0.9054
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.5432	0.7733	0.07862	0.01727	0.3579	0.001006
x	1.6483	1.2918	5.19838	0.41328	65.3866	0.201968
abf\$sexe	0.3825	0.8005	1.46591	0.30532	7.0381	0.632777
abf\$smk	-0.1810	0.6657	0.83440	0.22631	3.0764	0.785660
abf\$edad	-1.0515	1.0318	0.34942	0.04624	2.6402	0.308178

```
GlmWithOr(x = abf$SyResFin, y = abf$idx.sp)
```

```
      Y
x      0      1
  0 168    18
```

1 35 4

Crude OR : 1.067
Crude PPV : 0.1026 NPV : 0.9032

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4549	0.7604	0.08588	0.01935	0.3812	0.001245
x	0.1562	0.5774	1.16904	0.37697	3.6253	0.786797
abf\$sexe	0.3041	0.7872	1.35534	0.28970	6.3409	0.699329
abf\$smk	-0.2262	0.6633	0.79755	0.21736	2.9264	0.733059
abf\$edad	-1.0814	1.0305	0.33911	0.04500	2.5555	0.293970

Rhino Conjunctivitis

Persistent : 38 Remission : 71

GlmWithOr(x = abf\$asthmemd, y = abf\$idx.rc)

	Y
x	0 1
0	34 60
1	4 11

Crude OR : 1.558
Crude PPV : 0.7333 NPV : 0.3617

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.53830	0.5710	1.7131	0.5595	5.246	0.34580
x	0.53023	0.6585	1.6993	0.4675	6.177	0.42070
abf\$sexe	-0.01526	0.6054	0.9849	0.3006	3.226	0.97990
abf\$smk	1.15279	0.6793	3.1670	0.8365	11.990	0.08967
abf\$edad	-0.29786	0.7957	0.7424	0.1561	3.531	0.70815

GlmWithOr(x = abf\$cp20a8, y = abf\$idx.rc)

	Y
x	0 1
0	27 57
1	10 13

Crude OR : 0.6158
Crude PPV : 0.5652 NPV : 0.3214

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.69570	0.5812	2.0051	0.6419	6.264	0.23127
x	-0.59527	0.4966	0.5514	0.2083	1.459	0.23067
abf\$sexe	0.03318	0.6144	1.0337	0.3101	3.446	0.95694
abf\$smk	1.59821	0.7953	4.9442	1.0402	23.501	0.04448
abf\$edad	-0.50035	0.8229	0.6063	0.1209	3.042	0.54314

GlmWithOr(x = abf\$cp20a16, y = abf\$idx.rc)

	Y
x	0 1
0	22 44
1	15 26

Crude OR : 0.8667
Crude PPV : 0.6341 NPV : 0.3333

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.600904	0.5812	1.8238	0.5838	5.697	0.30115
x	-0.033839	0.4370	0.9667	0.4105	2.277	0.93828
abf\$sexe	-0.006885	0.6137	0.9931	0.2983	3.307	0.99105
abf\$smk	1.584449	0.7956	4.8766	1.0255	23.190	0.04641
abf\$edad	-0.461382	0.8135	0.6304	0.1280	3.105	0.57059

GlmWithOr(x = abf\$cp20a32, y = abf\$idix.rc)

	Y
x	0 1
	0 19 35
	1 18 35

Crude OR : 1.056
Crude PPV : 0.6604 NPV : 0.3519

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.52856	0.6027	1.6965	0.5207	5.528	0.38047
x	0.13878	0.4261	1.1489	0.4984	2.648	0.74467
abf\$sexe	-0.02138	0.6097	0.9788	0.2963	3.233	0.97202
abf\$smk	1.60731	0.7988	4.9894	1.0426	23.878	0.04421
abf\$edad	-0.45827	0.8110	0.6324	0.1290	3.100	0.57202

GlmWithOr(x = abf\$an_rhin1, y = abf\$idix.rc)

	Y
x	0 1
	0 13 37
	1 25 34

Crude OR : 0.4778
Crude PPV : 0.5763 NPV : 0.26

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.04243	0.6431	2.8361	0.8041	10.003	0.1050
x	-0.69423	0.4344	0.4995	0.2132	1.170	0.1100
abf\$sexe	-0.04938	0.6104	0.9518	0.2877	3.149	0.9355
abf\$smk	1.04138	0.6779	2.8331	0.7504	10.697	0.1245
abf\$edad	-0.22769	0.8144	0.7964	0.1614	3.930	0.7798

GlmWithOr(x = abf\$an_brcol, y = abf\$idix.rc)

	Y
x	0 1
	0 35 60
	1 3 11

Crude OR : 2.139
Crude PPV : 0.7857 NPV : 0.3684

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.5603	0.5668	1.7512	0.5766	5.319	0.32291

x	1.0028	0.7163	2.7259	0.6695	11.098	0.16155
abf\$sexe	-0.0981	0.6087	0.9066	0.2750	2.989	0.87197
abf\$smk	1.2605	0.6898	3.5273	0.9125	13.634	0.06766
abf\$edad	-0.5186	0.8076	0.5953	0.1223	2.899	0.52075

GlmWithOr(x = abf\$asthfam, y = abf\$idx.rc)

	Y
x	0 1
	0 27 56
	1 11 15

Crude OR : 0.6575
Crude PPV : 0.5769 NPV : 0.3253

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.66013	0.5745	1.9350	0.6276	5.967	0.2506
x	-0.35159	0.4780	0.7036	0.2757	1.795	0.4620
abf\$sexe	0.04174	0.6072	1.0426	0.3171	3.428	0.9452
abf\$smk	1.08606	0.6826	2.9626	0.7774	11.290	0.1116
abf\$edad	-0.38545	0.7948	0.6801	0.1432	3.229	0.6277

GlmWithOr(x = abf\$asthmere, y = abf\$idx.rc)

	Y
x	0 1
	0 36 67
	1 2 4

Crude OR : 1.075
Crude PPV : 0.6667 NPV : 0.3495

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.570859	0.5698	1.7698	0.5793	5.407	0.3164
x	0.371986	0.9758	1.4506	0.2143	9.820	0.7030
abf\$sexe	0.008178	0.6044	1.0082	0.3084	3.296	0.9892
abf\$smk	1.142268	0.6784	3.1339	0.8292	11.844	0.0922
abf\$edad	-0.344402	0.7937	0.7086	0.1496	3.357	0.6643

GlmWithOr(x = abf\$asthpere, y = abf\$idx.rc)

	Y
x	0 1
	0 38 65
	1 0 6

Crude OR : Inf
Crude PPV : 1 NPV : 0.3689

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.5778	0.5665	1.782e+00	0.5872	5.409	0.30772
x	17.1518	1577.8919	2.812e+07	0.0000	Inf	0.99133
abf\$sexe	-0.1231	0.6064	8.842e-01	0.2694	2.902	0.83910
abf\$smk	1.2655	0.6791	3.545e+00	0.9365	13.418	0.06242
abf\$edad	-0.2903	0.7944	7.480e-01	0.1577	3.549	0.71481

GlmWithOr(x = 2 - abf\$cig1, y = abf\$idx.rc)

	Y	
x	0	1
0	27	45
1	11	26

Crude OR : 1.418
Crude PPV : 0.7027 NPV : 0.375

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.613071	0.5790	1.8461	0.5935	5.742	0.2896
x	-0.079855	0.5293	0.9233	0.3272	2.605	0.8801
abf\$sexe	0.003683	0.6039	1.0037	0.3073	3.278	0.9951
abf\$smk	1.205289	0.7936	3.3377	0.7046	15.812	0.1288
abf\$edad	-0.365927	0.7919	0.6936	0.1469	3.275	0.6440

GlmWithOr(x = 2 - abf\$cigact1, y = abf\$idx.rc)

	Y	
x	0	1
0	6	14
1	5	12

Crude OR : 1.029
Crude PPV : 0.7059 NPV : 0.3

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.7343	1.4968	5.6651	0.30137	106.492	0.2466
x	-0.4475	0.8317	0.6392	0.12522	3.263	0.5905
abf\$sexe	-1.1580	1.4501	0.3141	0.01831	5.388	0.4245
abf\$smk	1.3290	0.8182	3.7771	0.75988	18.775	0.1043
abf\$edad	-0.5023	1.2932	0.6051	0.04799	7.631	0.6977

GlmWithOr(x = abf\$ns_rhin1, y = abf\$idx.rc)

	Y	
x	0	1
0	6	21
1	32	50

Crude OR : 0.4464
Crude PPV : 0.6098 NPV : 0.2222

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.4280	0.7718	4.1705	0.9188	18.931	0.06429
x	-0.8783	0.5467	0.4155	0.1423	1.213	0.10815
abf\$sexe	-0.1733	0.6138	0.8409	0.2525	2.800	0.77772
abf\$smk	1.1272	0.6797	3.0871	0.8147	11.698	0.09723
abf\$edad	-0.2875	0.8041	0.7501	0.1551	3.627	0.72067

GlmWithOr(x = abf\$po_brcol, y = abf\$idx.rc)

	Y	
x	0	1
0	36	65
1	2	6

Crude OR : 1.662
Crude PPV : 0.75 NPV : 0.3564

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.51891	0.5780	1.6802	0.5412	5.216	0.36932
x	0.61591	0.8555	1.8513	0.3462	9.900	0.47154
abf\$sexe	0.03809	0.6092	1.0388	0.3148	3.428	0.95014
abf\$smk	1.19662	0.6826	3.3089	0.8682	12.611	0.07962
abf\$edad	-0.41295	0.7982	0.6617	0.1384	3.163	0.60490

GlmWithOr(x = abf\$po_rhin1, y = abf\$idx.rc)

	Y
x	0 1
0	21 41
1	17 30

Crude OR : 0.9039
Crude PPV : 0.6383 NPV : 0.3387

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.71574	0.6425	2.0457	0.5806	7.207	0.2653
x	-0.17301	0.4307	0.8411	0.3616	1.956	0.6879
abf\$sexe	-0.05012	0.6196	0.9511	0.2824	3.204	0.9355
abf\$smk	1.13625	0.6775	3.1151	0.8257	11.752	0.0935
abf\$edad	-0.34979	0.7959	0.7048	0.1481	3.354	0.6603

GlmWithOr(x = abf\$pvemsp, y = abf\$idx.rc)

	Y
x	0 1
0	37 66
1	0 4

Crude OR : Inf
Crude PPV : 1 NPV : 0.3592

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.6104	0.5731	1.841e+00	0.5988	5.661	0.28683
x	15.9629	1098.6472	8.562e+06	0.0000	Inf	0.98841
abf\$sexe	-0.1065	0.6118	8.990e-01	0.2710	2.982	0.86186
abf\$smk	1.5287	0.7907	4.612e+00	0.9793	21.723	0.05318
abf\$edad	-0.5649	0.8428	5.684e-01	0.1090	2.965	0.50268

GlmWithOr(x = abf\$eib_time, y = abf\$idx.rc)

	Y
x	0 1
0	14 30
1	24 41

Crude OR : 0.7972
Crude PPV : 0.6308 NPV : 0.3182

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.77777	0.6144	2.1766	0.6528	7.258	0.20557
x	-0.35571	0.4357	0.7007	0.2983	1.646	0.41431

abf\$sexe	0.04473	0.6101	1.0457	0.3163	3.457	0.94156
abf\$smk	1.18261	0.6823	3.2629	0.8566	12.428	0.08307
abf\$edad	-0.44827	0.8014	0.6387	0.1328	3.072	0.57592

GlmWithOr(x = abf\$ess_time, y = abf\$idx.rc)

	Y
x	0 1
	0 20 51
	1 18 20

Crude OR : 0.4357
Crude PPV : 0.5263 NPV : 0.2817

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.81536	0.5928	2.2600	0.7071	7.223	0.1690
x	-0.71140	0.4329	0.4910	0.2102	1.147	0.1003
abf\$sexe	0.06754	0.6155	1.0699	0.3202	3.575	0.9126
abf\$smk	1.10463	0.6811	3.0181	0.7942	11.469	0.1049
abf\$edad	-0.44083	0.8096	0.6435	0.1317	3.145	0.5861

GlmWithOr(x = abf\$opp_time, y = abf\$idx.rc)

	Y
x	0 1
	0 31 64
	1 7 7

Crude OR : 0.4844
Crude PPV : 0.5 NPV : 0.3263

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.65410	0.5775	1.9234	0.6201	5.966	0.2574
x	-0.32379	0.6105	0.7234	0.2186	2.393	0.5958
abf\$sexe	-0.01549	0.6038	0.9846	0.3015	3.215	0.9795
abf\$smk	1.10528	0.6793	3.0201	0.7977	11.434	0.1037
abf\$edad	-0.26663	0.8185	0.7660	0.1540	3.810	0.7446

GlmWithOr(x = abf\$sil_time, y = abf\$idx.rc)

	Y
x	0 1
	0 16 39
	1 22 32

Crude OR : 0.5967
Crude PPV : 0.5926 NPV : 0.2909

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.85652	0.6271	2.3549	0.6890	8.049	0.1720
x	-0.44082	0.4264	0.6435	0.2790	1.484	0.3012
abf\$sexe	-0.01469	0.6090	0.9854	0.2987	3.251	0.9808
abf\$smk	1.06604	0.6831	2.9039	0.7612	11.077	0.1186
abf\$edad	-0.48212	0.8062	0.6175	0.1272	2.998	0.5498

GlmWithOr(x = abf\$spec_tim, y = abf\$idx.rc)

```

      Y
x      0  1
  0 19 45
  1 19 26

```

```

Crude OR : 0.5778
Crude PPV : 0.5778    NPV : 0.2969

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.85111	0.6288	2.3422	0.6829	8.033	0.1759
x	-0.42601	0.4299	0.6531	0.2812	1.517	0.3217
abf\$sexe	-0.08111	0.6145	0.9221	0.2765	3.075	0.8950
abf\$smk	1.10397	0.6804	3.0161	0.7949	11.444	0.1047
abf\$edad	-0.44298	0.8016	0.6421	0.1334	3.090	0.5805

```
GlmWithOr(x = abf$tr_es_tm, y = abf$idx.rc)
```

```

      Y
x      0  1
  0 30 62
  1  8  9

```

```

Crude OR : 0.5444
Crude PPV : 0.5294    NPV : 0.3261

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.69345	0.5809	2.0006	0.6408	6.246	0.2326
x	-0.50399	0.5729	0.6041	0.1965	1.857	0.3790
abf\$sexe	-0.01977	0.6075	0.9804	0.2980	3.225	0.9740
abf\$smk	1.07386	0.6807	2.9267	0.7708	11.112	0.1147
abf\$edad	-0.21842	0.8192	0.8038	0.1614	4.004	0.7898

```
GlmWithOr(x = abf$tr_ne_tm, y = abf$idx.rc)
```

```

      Y
x      0  1
  0  4  6
  1 34 65

```

```

Crude OR : 1.275
Crude PPV : 0.6566    NPV : 0.4

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.44267	0.8971	1.5569	0.2683	9.034	0.6217
x	0.15481	0.7071	1.1674	0.2920	4.668	0.8267
abf\$sexe	0.02214	0.6097	1.0224	0.3095	3.377	0.9710
abf\$smk	1.12578	0.6830	3.0826	0.8082	11.757	0.0993
abf\$edad	-0.37654	0.7932	0.6862	0.1450	3.248	0.6350

```
GlmWithOr(x = abf$tr_pe_tm, y = abf$idx.rc)
```

```

      Y
x      0  1
  0 20 44
  1 18 27

```

```
Crude OR : 0.6818
```

Crude PPV : 0.6 NPV : 0.3125

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.70613	0.5897	2.0261	0.6379	6.436	0.23111
x	-0.31060	0.4239	0.7330	0.3193	1.683	0.46377
abf\$sexe	0.02824	0.6077	1.0286	0.3126	3.385	0.96294
abf\$smk	1.14574	0.6814	3.1448	0.8271	11.957	0.09269
abf\$edad	-0.41730	0.7946	0.6588	0.1388	3.127	0.59947

GlmWithOr(x = abf\$str_rhitm, y = abf\$idx.rc)

	Y
x	0 1
	0 6 15
	1 32 56

Crude OR : 0.7
Crude PPV : 0.6364 NPV : 0.2857

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.77224	0.6674	2.1646	0.5852	8.007	0.24723
x	-0.26739	0.5226	0.7654	0.2748	2.131	0.60887
abf\$sexe	0.04083	0.6091	1.0417	0.3157	3.437	0.94655
abf\$smk	1.14665	0.6764	3.1476	0.8361	11.850	0.09003
abf\$edad	-0.33726	0.7980	0.7137	0.1494	3.411	0.67258

GlmWithOr(x = abf\$str_si_tm, y = abf\$idx.rc)

	Y
x	0 1
	0 32 63
	1 6 8

Crude OR : 0.6772
Crude PPV : 0.5714 NPV : 0.3368

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.634051	0.5764	1.8852	0.6091	5.835	0.2713
x	-0.231121	0.6175	0.7936	0.2366	2.662	0.7082
abf\$sexe	-0.002523	0.6044	0.9975	0.3051	3.261	0.9967
abf\$smk	1.108578	0.6846	3.0300	0.7920	11.592	0.1054
abf\$edad	-0.357211	0.7929	0.6996	0.1479	3.310	0.6524

GlmWithOr(x = abf\$str_ye_tm, y = abf\$idx.rc)

	Y
x	0 1
	0 10 39
	1 28 32

Crude OR : 0.2930
Crude PPV : 0.5333 NPV : 0.2041

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.1533	0.6393	3.1687	0.9051	11.0935	0.071232
x	-1.2247	0.4509	0.2938	0.1214	0.7111	0.006604
abf\$sexe	0.1805	0.6424	1.1978	0.3401	4.2191	0.778732
abf\$smk	1.0676	0.6864	2.9084	0.7575	11.1672	0.119866

abf\$edad -0.2580 0.8514 0.7726 0.1456 4.0992 0.761888

GlmWithOr(x = abf\$froid1, y = abf\$idx.rc)

	Y	
x	0	1
	0 29 52	
	1 9 19	

Crude OR : 1.177
Crude PPV : 0.6786 NPV : 0.358

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.57331	0.5677	1.7741	0.5831	5.398	0.31255
x	0.22590	0.4955	1.2535	0.4746	3.310	0.64844
abf\$sexe	-0.03161	0.6083	0.9689	0.2941	3.192	0.95856
abf\$smk	1.12268	0.6790	3.0731	0.8120	11.630	0.09826
abf\$edad	-0.36579	0.7934	0.6936	0.1465	3.285	0.64476

GlmWithOr(x = abf\$fumeel, y = abf\$idx.rc)

	Y	
x	0	1
	0 35 63	
	1 3 8	

Crude OR : 1.481
Crude PPV : 0.7273 NPV : 0.3571

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.4209	0.5847	1.5233	0.48425	4.792	0.47165
x	0.8795	0.7973	2.4096	0.50502	11.497	0.26998
abf\$sexe	0.1127	0.6130	1.1192	0.33662	3.721	0.85419
abf\$smk	1.2786	0.6946	3.5916	0.92048	14.014	0.06567
abf\$edad	-0.6665	0.8397	0.5135	0.09904	2.662	0.42732

GlmWithOr(x = abf\$mities1, y = abf\$idx.rc)

	Y	
x	0	1
	0 19 33	
	1 19 38	

Crude OR : 1.152
Crude PPV : 0.6667 NPV : 0.3654

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.588944	0.6982	1.8021	0.4586	7.081	0.39895
x	0.006619	0.4441	1.0066	0.4216	2.404	0.98811
abf\$sexe	0.007539	0.6437	1.0076	0.2853	3.558	0.99066
abf\$smk	1.141832	0.6825	3.1325	0.8222	11.935	0.09432
abf\$edad	-0.364700	0.7960	0.6944	0.1459	3.305	0.64685

GlmWithOr(x = abf\$molds1, y = abf\$idx.rc)

Y

```

x      0  1
  0 32 56
  1  6 15

```

Crude OR : 1.429
Crude PPV : 0.7143 NPV : 0.3636

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.4287	0.6539	1.535	0.4262	5.530	0.5121
x	0.3073	0.6090	1.360	0.4121	4.486	0.6139
abf\$sexe	0.1339	0.6574	1.143	0.3152	4.147	0.8386
abf\$smk	1.1324	0.6793	3.103	0.8196	11.748	0.0955
abf\$edad	-0.3216	0.7970	0.725	0.1520	3.457	0.6866

GlmWithOr(x = abf\$natopie2 - 1, y = abf\$idx.rc)

```

      Y
x      0  1
  0 13 26
  1 25 45

```

Crude OR : 0.9
Crude PPV : 0.6429 NPV : 0.3333

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.77569	0.7124	2.1721	0.5377	8.775	0.27621
x	-0.18835	0.4486	0.8283	0.3438	1.995	0.67457
abf\$sexe	-0.07408	0.6322	0.9286	0.2690	3.206	0.90672
abf\$smk	1.17582	0.6811	3.2408	0.8529	12.314	0.08428
abf\$edad	-0.39154	0.7986	0.6760	0.1413	3.234	0.62393

GlmWithOr(x = abf\$pets1, y = abf\$idx.rc)

```

      Y
x      0  1
  0 19 50
  1 19 21

```

Crude OR : 0.42
Crude PPV : 0.525 NPV : 0.2754

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.9553	0.6062	2.5996	0.7924	8.5283	0.11501
x	-0.8673	0.4305	0.4201	0.1807	0.9768	0.04395
abf\$sexe	-0.0270	0.6125	0.9734	0.2930	3.2335	0.96484
abf\$smk	1.1669	0.6807	3.2121	0.8460	12.1965	0.08649
abf\$edad	-0.3574	0.8207	0.6995	0.1400	3.4946	0.66324

GlmWithOr(x = abf\$pollens1, y = abf\$idx.rc)

```

      Y
x      0  1
  0 17 36
  1 21 35

```

Crude OR : 0.787
Crude PPV : 0.625 NPV : 0.3208

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.8278	0.6674	2.2882	0.6186	8.464	0.21489
x	-0.2893	0.4338	0.7488	0.3200	1.752	0.50486
abf\$sexe	-0.1005	0.6243	0.9044	0.2660	3.075	0.87207
abf\$smk	1.1524	0.6758	3.1658	0.8418	11.906	0.08815
abf\$edad	-0.3128	0.8030	0.7314	0.1516	3.530	0.69693

GlmWithOr(x = abf\$toux1, y = abf\$idx.rc)

	Y
x	0 1
	0 36 66
	1 2 5

Crude OR : 1.364
Crude PPV : 0.7143 NPV : 0.3529

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.5081	0.5776	1.6622	0.5358	5.156	0.37902
x	0.7196	0.9136	2.0537	0.3427	12.308	0.43086
abf\$sexe	0.0407	0.6083	1.0415	0.3161	3.432	0.94666
abf\$smk	1.1862	0.6791	3.2746	0.8653	12.393	0.08067
abf\$edad	-0.3170	0.7955	0.7284	0.1532	3.463	0.69029

GlmWithOr(x = abf\$SyRes, y = abf\$idx.rc)

	Y
x	0 1
	0 23 45
	1 15 26

Crude OR : 0.886
Crude PPV : 0.6341 NPV : 0.3382

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.655692	0.6060	1.9265	0.5874	6.319	0.27929
x	-0.121858	0.4295	0.8853	0.3815	2.054	0.77664
abf\$sexe	-0.006909	0.6049	0.9931	0.3034	3.250	0.99089
abf\$smk	1.123913	0.6810	3.0769	0.8099	11.689	0.09886
abf\$edad	-0.383058	0.7950	0.6818	0.1435	3.238	0.62991

GlmWithOr(x = abf\$SyResTra, y = abf\$idx.rc)

	Y
x	0 1
	0 32 63
	1 6 8

Crude OR : 0.6772
Crude PPV : 0.5714 NPV : 0.3368

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.65770	0.5854	1.9304	0.6128	6.080	0.2612
x	-0.27371	0.6247	0.7606	0.2235	2.588	0.6613
abf\$sexe	-0.02373	0.6080	0.9766	0.2966	3.215	0.9689
abf\$smk	1.10509	0.6840	3.0195	0.7902	11.538	0.1062
abf\$edad	-0.35841	0.7930	0.6988	0.1477	3.306	0.6513

GlmWithOr(x = abf\$SyResFin, y = abf\$idx.rc)

	Y	
x	0	1
	0 24 49	
	1 14 22	

Crude OR : 0.7697
Crude PPV : 0.6111 NPV : 0.3288

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.674279	0.6002	1.9626	0.6053	6.364	0.2612
x	-0.178328	0.4405	0.8367	0.3528	1.984	0.6856
abf\$sexe	-0.008291	0.6043	0.9917	0.3034	3.241	0.9891
abf\$smk	1.100463	0.6858	3.0056	0.7838	11.525	0.1086
abf\$edad	-0.380112	0.7935	0.6838	0.1444	3.239	0.6319

Referent : 180 Incident : 26

GlmWithOr(x = abf\$asthmemd, y = abf\$idx.rc)

	Y	
x	0	1
	0 168 24	
	1 12 2	

Crude OR : 1.167
Crude PPV : 0.1429 NPV : 0.875

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.07097	0.6048	0.1261	0.03853	0.4125	0.000617
x	0.32581	0.7358	1.3852	0.32748	5.8589	0.657911
abf\$sexe	0.09635	0.6321	1.1011	0.31900	3.8009	0.878854
abf\$smk	-0.24110	0.6243	0.7858	0.23117	2.6709	0.699336
abf\$edad	0.25401	0.6009	1.2892	0.39704	4.1860	0.672494

GlmWithOr(x = abf\$cp20a8, y = abf\$idx.rc)

	Y	
x	0	1
	0 154 19	
	1 15 4	

Crude OR : 2.161
Crude PPV : 0.2105 NPV : 0.8902

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.045565	0.6054	0.1293	0.03948	0.4236	0.0007273
x	0.450163	0.6444	1.5686	0.44364	5.5459	0.4847824
abf\$sexe	0.001972	0.6397	1.0020	0.28600	3.5104	0.9975400
abf\$smk	-0.591005	0.7165	0.5538	0.13596	2.2555	0.4094705
abf\$edad	0.576947	0.6080	1.7806	0.54083	5.8623	0.3426358

GlmWithOr(x = abf\$cp20a16, y = abf\$idx.rc)

	Y	
x	0	1
0	132	17
1	37	6

Crude OR : 1.259
Crude PPV : 0.1395 NPV : 0.8859

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.035559	0.6050	0.1306	0.0399	0.4275	0.0007668
x	0.186931	0.5235	1.2055	0.4321	3.3632	0.7210154
abf\$sexe	-0.004928	0.6409	0.9951	0.2834	3.4944	0.9938653
abf\$smk	-0.593790	0.7158	0.5522	0.1358	2.2461	0.4068156
abf\$edad	0.635232	0.6008	1.8875	0.5813	6.1280	0.2904081

GlmWithOr(x = abf\$cp20a32, y = abf\$idx.rc)

	Y	
x	0	1
0	118	16
1	51	7

Crude OR : 1.012
Crude PPV : 0.1207 NPV : 0.8806

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.015865	0.6016	0.1332	0.04097	0.4331	0.0008058
x	0.038206	0.4932	1.0389	0.39517	2.7315	0.9382535
abf\$sexe	0.009933	0.6447	1.0100	0.28546	3.5734	0.9877068
abf\$smk	-0.595583	0.7169	0.5512	0.13526	2.2466	0.4060689
abf\$edad	0.629420	0.6013	1.8765	0.57747	6.0979	0.2952042

GlmWithOr(x = abf\$an_rhin1, y = abf\$idx.rc)

	Y	
x	0	1
0	143	22
1	37	4

Crude OR : 0.7027
Crude PPV : 0.09756 NPV : 0.8667

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0378	0.5978	0.1303	0.04038	0.4206	0.0006525
x	-0.1558	0.5536	0.8558	0.28917	2.5325	0.7784222
abf\$sexe	0.1150	0.6375	1.1218	0.32156	3.9138	0.8568828
abf\$smk	-0.2580	0.6239	0.7726	0.22745	2.6245	0.6792612
abf\$edad	0.3305	0.5845	1.3917	0.44263	4.3755	0.5717550

GlmWithOr(x = abf\$an_brcol, y = abf\$idx.rc)

	Y	
x	0	1
0	176	26
1	4	0

Crude OR : 0

Crude PPV : 0 NPV : 0.8713

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0493	0.5989	1.288e-01	0.03983	0.4167	0.0006223
x	-14.7183	1170.9328	4.054e-07	0.00000	Inf	0.9899711
abf\$sexe	0.1145	0.6302	1.121e+00	0.32609	3.8561	0.8557769
abf\$smk	-0.2192	0.6222	8.031e-01	0.23726	2.7188	0.7245741
abf\$edad	0.3413	0.5816	1.407e+00	0.44999	4.3983	0.5572635

GlmWithOr(x = abf\$asthfam, y = abf\$idx.rc)

	Y	
x	0	1
0	143	20
1	37	6

Crude OR : 1.159
Crude PPV : 0.1395 NPV : 0.8773

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.10741	0.6080	0.1216	0.03692	0.4002	0.0005282
x	0.37630	0.4831	1.4569	0.56523	3.7552	0.4360059
abf\$sexe	0.05381	0.6335	1.0553	0.30489	3.6525	0.9323108
abf\$smk	-0.24212	0.6246	0.7850	0.23077	2.6700	0.6982829
abf\$edad	0.33287	0.5836	1.3950	0.44440	4.3788	0.5684442

GlmWithOr(x = abf\$asthmere, y = abf\$idx.rc)

	Y	
x	0	1
0	170	23
1	10	3

Crude OR : 2.217
Crude PPV : 0.2308 NPV : 0.8808

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.1461	0.6150	0.1169	0.03503	0.3904	0.0004842
x	0.8141	0.6933	2.2572	0.58006	8.7836	0.2402519
abf\$sexe	0.1260	0.6368	1.1343	0.32558	3.9517	0.8431502
abf\$smk	-0.2109	0.6251	0.8099	0.23785	2.7575	0.7358516
abf\$edad	0.2831	0.5854	1.3273	0.42135	4.1811	0.6286354

GlmWithOr(x = abf\$asthpere, y = abf\$idx.rc)

	Y	
x	0	1
0	172	26
1	8	0

Crude OR : 0
Crude PPV : 0 NPV : 0.8687

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0339	0.5972	1.308e-01	0.04058	0.4217	0.0006597
x	-15.6213	1397.2257	1.644e-07	0.00000	Inf	0.9910797
abf\$sexe	0.1297	0.6298	1.139e+00	0.33136	3.9121	0.8367680
abf\$smk	-0.1943	0.6270	8.234e-01	0.24094	2.8140	0.7566519

abf\$edad 0.2571 0.5825 1.293e+00 0.41292 4.0500 0.6589188

GlmWithOr(x = 2 - abf\$cig1, y = abf\$idx.rc)

	Y	
x	0	1
0	135	21
1	44	5

Crude OR : 0.7305
Crude PPV : 0.1020 NPV : 0.8654

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.9737	0.6056	0.1389	0.0424	0.4554	0.001118
x	-0.4709	0.7260	0.6245	0.1505	2.5910	0.516601
abf\$sexe	0.0663	0.6320	1.0685	0.3096	3.6876	0.916449
abf\$smk	0.1175	0.8536	1.1247	0.2111	5.9922	0.890528
abf\$edad	0.3852	0.5930	1.4699	0.4597	4.6998	0.516006

GlmWithOr(x = 2 - abf\$cigact1, y = abf\$idx.rc)

	Y	
x	0	1
0	32	3
1	13	2

Crude OR : 1.641
Crude PPV : 0.1333 NPV : 0.9143

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.4334	1.294	0.08774	0.00695	1.108	0.05999
x	0.7116	1.081	2.03717	0.24479	16.953	0.51042
abf\$sexe	-0.5429	1.180	0.58105	0.05754	5.868	0.64539
abf\$smk	-0.8764	1.095	0.41629	0.04870	3.559	0.42342
abf\$edad	1.9076	1.010	6.73674	0.93117	48.738	0.05885

GlmWithOr(x = abf\$ns_rhin1, y = abf\$idx.rc)

	Y	
x	0	1
0	123	16
1	57	10

Crude OR : 1.349
Crude PPV : 0.1493 NPV : 0.8849

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.05345	0.6001	0.1283	0.03957	0.4159	0.0006216
x	0.13853	0.4608	1.1486	0.46548	2.8342	0.7637127
abf\$sexe	0.05114	0.6414	1.0525	0.29942	3.6994	0.9364452
abf\$smk	-0.24336	0.6241	0.7840	0.23071	2.6641	0.6965857
abf\$edad	0.27312	0.5982	1.3141	0.40682	4.2445	0.6479908

GlmWithOr(x = abf\$po_brcol, y = abf\$idx.rc)

	Y	
x	0	1

```

0 178 26
1 2 0

```

```

Crude OR : 0
Crude PPV : 0 NPV : 0.8725

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.03854	0.5978	1.302e-01	0.04035	0.4202	0.0006491
x	-13.54257	1112.1431	1.314e-06	0.00000	Inf	0.9902844
abf\$sexe	0.09638	0.6300	1.101e+00	0.32032	3.7855	0.8784163
abf\$smk	-0.26212	0.6232	7.694e-01	0.22682	2.6100	0.6740462
abf\$edad	0.30566	0.5815	1.358e+00	0.43428	4.2435	0.5991380

```

GlmWithOr(x = abf$po_rhin1, y = abf$idx.rc)

```

```

      Y
x      0  1
0 155 21
1 25 5

```

```

Crude OR : 1.476
Crude PPV : 0.1667 NPV : 0.8807

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.05103	0.5990	0.1286	0.03975	0.4161	0.0006174
x	0.36093	0.5572	1.4347	0.48132	4.2763	0.5171650
abf\$sexe	0.03531	0.6367	1.0359	0.29741	3.6084	0.9557818
abf\$smk	-0.25252	0.6255	0.7768	0.22800	2.6469	0.6864217
abf\$edad	0.28239	0.5859	1.3263	0.42063	4.1819	0.6298372

```

GlmWithOr(x = abf$pvemsp, y = abf$idx.rc)

```

```

      Y
x      0  1
0 168 24
1 3 0

```

```

Crude OR : 0
Crude PPV : 0 NPV : 0.875

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.958313	0.6012	1.411e-01	0.04342	0.4585	0.001126
x	-14.435163	1366.7923	5.381e-07	0.00000	Inf	0.991573
abf\$sexe	0.002996	0.6364	1.003e+00	0.28815	3.4912	0.996243
abf\$smk	-0.572713	0.7166	5.640e-01	0.13845	2.2974	0.424166
abf\$edad	0.586016	0.5998	1.797e+00	0.55460	5.8214	0.328532

```

GlmWithOr(x = abf$eib_time, y = abf$idx.rc)

```

```

      Y
x      0  1
0 134 21
1 46 5

```

```

Crude OR : 0.6936
Crude PPV : 0.09804 NPV : 0.8645

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0072	0.6002	0.1344	0.04144	0.4357	0.0008255
x	-0.2469	0.5157	0.7812	0.28431	2.1464	0.6320516
abf\$sexe	0.1082	0.6312	1.1143	0.32339	3.8396	0.8638519
abf\$smk	-0.2465	0.6239	0.7815	0.23011	2.6545	0.6927766
abf\$edad	0.3399	0.5841	1.4048	0.44718	4.4135	0.5605601

GlmWithOr(x = abf\$ess_time, y = abf\$idx.rc)

	Y
x	0 1
	0 157 23
	1 23 3

Crude OR : 0.8904
Crude PPV : 0.1154 NPV : 0.8722

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.03575	0.6006	0.1306	0.04024	0.4237	0.0006995
x	-0.05556	0.6312	0.9460	0.27452	3.2596	0.9298565
abf\$sexe	0.08715	0.6299	1.0911	0.31746	3.7497	0.8899584
abf\$smk	-0.25021	0.6238	0.7786	0.22928	2.6443	0.6883355
abf\$edad	0.31915	0.5838	1.3760	0.43821	4.3205	0.5845953

GlmWithOr(x = abf\$opp_time, y = abf\$idx.rc)

	Y
x	0 1
	0 172 26
	1 8 0

Crude OR : 0
Crude PPV : 0 NPV : 0.8687

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.93559	0.5972	1.443e-01	0.04478	0.4653	0.001191
x	-15.74056	1375.3643	1.459e-07	0.00000	Inf	0.990869
abf\$sexe	-0.00588	0.6342	9.941e-01	0.28683	3.4456	0.992603
abf\$smk	-0.17071	0.6274	8.431e-01	0.24651	2.8833	0.785544
abf\$edad	0.39280	0.5851	1.481e+00	0.47051	4.6624	0.501998

GlmWithOr(x = abf\$rhic_tm, y = abf\$idx.rc)

	Y
x	0 1
	0 180 26

GlmWithOr(x = abf\$sil_time, y = abf\$idx.rc)

	Y
x	0 1
	0 146 22
	1 34 4

Crude OR : 0.7807
Crude PPV : 0.1053 NPV : 0.869

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.04496	0.6027	0.1294	0.03970	0.4216	0.0006918

x	0.02825	0.5459	1.0287	0.35287	2.9986	0.9587293
abf\$sexe	0.08545	0.6301	1.0892	0.31680	3.7449	0.8921236
abf\$smk	-0.25623	0.6277	0.7740	0.22615	2.6488	0.6831433
abf\$edad	0.31116	0.5855	1.3650	0.43326	4.3005	0.5951213

GlmWithOr(x = abf\$spec_tm, y = abf\$idx.rc)

	Y	
x	0	1
	0	167
	1	12

Crude OR : 2.530
Crude PPV : 0.25 NPV : 0.8836

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.1828	0.6123	0.1127	0.03395	0.3743	0.000364
x	1.0722	0.6306	2.9217	0.84886	10.0566	0.089107
abf\$sexe	0.1105	0.6352	1.1168	0.32161	3.8781	0.861932
abf\$smk	-0.3159	0.6290	0.7291	0.21251	2.5018	0.615550
abf\$edad	0.4505	0.5921	1.5691	0.49167	5.0076	0.446723

GlmWithOr(x = abf\$str_es_tm, y = abf\$idx.rc)

	Y	
x	0	1
	0	180
	1	26

GlmWithOr(x = abf\$str_ne_tm, y = abf\$idx.rc)

	Y	
x	0	1
	0	180
	1	26

GlmWithOr(x = abf\$str_pe_tm, y = abf\$idx.rc)

	Y	
x	0	1
	0	153
	1	27

Crude OR : 1.349
Crude PPV : 0.1562 NPV : 0.8793

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.06818	0.5997	0.1264	0.03903	0.4095	0.0005631
x	0.47098	0.5330	1.6016	0.56344	4.5524	0.3769010
abf\$sexe	0.01366	0.6373	1.0138	0.29069	3.5354	0.9829015
abf\$smk	-0.27105	0.6236	0.7626	0.22462	2.5889	0.6638324
abf\$edad	0.35748	0.5845	1.4297	0.45469	4.4956	0.5408039

GlmWithOr(x = abf\$abf\$str_rhitm, y = abf\$idx.rc)

GlmWithOr(x = abf\$str_si_tm, y = abf\$idx.rc)

	Y	
x	0	1
	0	180
	1	26

GlmWithOr(x = abf\$str_ye_tm, y = abf\$idx.rc)

Y

```

x      0  1
  0 180 26
GlmWithOr(x = abf$froid1, y = abf$idx.rc)

```

```

      Y
x      0  1
  0 157 24
  1  23  2

```

```

Crude OR : 0.5688
Crude PPV : 0.08   NPV : 0.8674

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0203	0.5983	0.1326	0.04105	0.4284	0.0007334
x	-0.4228	0.7478	0.6552	0.15131	2.8374	0.5718303
abf\$sexe	0.1004	0.6301	1.1056	0.32157	3.8014	0.8733816
abf\$smk	-0.2443	0.6246	0.7832	0.23027	2.6642	0.6956848
abf\$edad	0.3780	0.5917	1.4593	0.45761	4.6538	0.5229584

```

GlmWithOr(x = abf$fumeel, y = abf$idx.rc)

```

```

      Y
x      0  1
  0 172 25
  1   8  1

```

```

Crude OR : 0.86
Crude PPV : 0.1111   NPV : 0.8731

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0483	0.5989	0.1290	0.03987	0.4171	0.0006259
x	-0.3335	1.1452	0.7164	0.07592	6.7603	0.7708774
abf\$sexe	0.1013	0.6318	1.1066	0.32077	3.8178	0.8725962
abf\$smk	-0.2212	0.6308	0.8015	0.23280	2.7596	0.7257935
abf\$edad	0.3371	0.5863	1.4009	0.44399	4.4200	0.5652924

```

GlmWithOr(x = abf$mities1, y = abf$idx.rc)

```

```

      Y
x      0  1
  0 134 16
  1  45 10

```

```

Crude OR : 1.861
Crude PPV : 0.1818   NPV : 0.8933

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.12563	0.6044	0.1194	0.03651	0.3902	0.0004362
x	0.71791	0.4663	2.0501	0.82198	5.1134	0.1236692
abf\$sexe	-0.08496	0.6460	0.9186	0.25894	3.2585	0.8953782
abf\$smk	-0.22215	0.6294	0.8008	0.23323	2.7496	0.7241208
abf\$edad	0.45097	0.5955	1.5698	0.48857	5.0440	0.4489081

```

GlmWithOr(x = abf$molds1, y = abf$idx.rc)

```

```

      Y
x      0  1

```

```

0 161 26
1 18 0

```

```

Crude OR : 0
Crude PPV : 0 NPV : 0.861

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0464	0.5989	1.292e-01	0.03995	0.4178	0.0006328
x	-15.7838	958.4546	1.397e-07	0.00000	Inf	0.9868611
abf\$sexe	0.2248	0.6317	1.252e+00	0.36299	4.3188	0.7219532
abf\$smk	-0.3691	0.6271	6.913e-01	0.20225	2.3632	0.5561379
abf\$edad	0.3813	0.5901	1.464e+00	0.46057	4.6545	0.5181952

```
GlmWithOr(x = abf$natopie2 - 1, y = abf$idx.rc)
```

```

      Y
x      0  1
0 127 18
1  51  8

```

```

Crude OR : 1.107
Crude PPV : 0.1356 NPV : 0.8759

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0536	0.6000	0.1283	0.03957	0.4158	0.0006201
x	0.1621	0.4719	1.1760	0.46635	2.9653	0.7312466
abf\$sexe	0.0638	0.6395	1.0659	0.30436	3.7328	0.9205205
abf\$smk	-0.2455	0.6259	0.7823	0.22940	2.6678	0.6948768
abf\$edad	0.2903	0.5828	1.3369	0.42663	4.1891	0.6183484

```
GlmWithOr(x = abf$pets1, y = abf$idx.rc)
```

```

      Y
x      0  1
0 155 24
1  23  2

```

```

Crude OR : 0.5616
Crude PPV : 0.08 NPV : 0.866

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0532	0.5993	0.1283	0.03964	0.4154	0.000613
x	-0.8449	0.8642	0.4296	0.07898	2.3369	0.328232
abf\$sexe	0.1955	0.6350	1.2159	0.35024	4.2212	0.758190
abf\$smk	-0.2922	0.6251	0.7466	0.21930	2.5420	0.640177
abf\$edad	0.3862	0.5886	1.4714	0.46422	4.6638	0.511716

```
GlmWithOr(x = abf$pollens1, y = abf$idx.rc)
```

```

      Y
x      0  1
0 135 19
1  44  7

```

```

Crude OR : 1.130
Crude PPV : 0.1373 NPV : 0.8766

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0660	0.6022	0.1267	0.03892	0.4124	0.0006014
x	0.1879	0.4866	1.2067	0.46495	3.1318	0.6994091
abf\$sexe	0.0703	0.6331	1.0728	0.31021	3.7102	0.9115882
abf\$smk	-0.2304	0.6277	0.7942	0.23209	2.7180	0.7135952
abf\$edad	0.2701	0.5901	1.3101	0.41212	4.1645	0.6471728

GlmWithOr(x = abf\$toux1, y = abf\$idx.rc)

	Y
x	0 1
	0 174 25
	1 6 1

Crude OR : 1.16
Crude PPV : 0.1429 NPV : 0.8744

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.04147	0.5980	0.1298	0.04021	0.4192	0.0006407
x	-0.05827	1.1492	0.9434	0.09920	8.9719	0.9595631
abf\$sexe	0.08882	0.6324	1.0929	0.31646	3.7743	0.8882928
abf\$smk	-0.25542	0.6261	0.7746	0.22707	2.6423	0.6832946
abf\$edad	0.31733	0.5840	1.3735	0.43722	4.3145	0.5868857

GlmWithOr(x = abf\$SyRes, y = abf\$idx.rc)

	Y
x	0 1
	0 147 22
	1 33 4

Crude OR : 0.8099
Crude PPV : 0.1081 NPV : 0.8698

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.05374	0.6036	0.1283	0.03929	0.4187	0.0006682
x	0.08956	0.5429	1.0937	0.37739	3.1696	0.8689620
abf\$sexe	0.08474	0.6303	1.0884	0.31644	3.7438	0.8930562
abf\$smk	-0.26296	0.6267	0.7688	0.22510	2.6255	0.6747675
abf\$edad	0.30338	0.5858	1.3544	0.42967	4.2695	0.6045274

GlmWithOr(x = abf\$SyResTra, y = abf\$idx.rc)

	Y
x	0 1
	0 179 26

GlmWithOr(x = abf\$SyResFin, y = abf\$idx.rc)

	Y
x	0 1
	0 156 21
	1 23 5

Crude OR : 1.615
Crude PPV : 0.1786 NPV : 0.8814

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.1669	0.6183	0.1145	0.03409	0.3848	0.0004573

x	0.7167	0.5376	2.0477	0.71391	5.8733	0.1824885
abf\$sexe	0.1331	0.6354	1.1424	0.32879	3.9691	0.8340948
abf\$smk	-0.3516	0.6301	0.7036	0.20464	2.4189	0.5768162
abf\$edad	0.1826	0.5965	1.2004	0.37288	3.8641	0.7594953

=====
 Respiratory Symptoms
 =====

Persistent : 4 Remission : 10
 GlmWithOr(x = abf\$asthmemd, y = abf\$idix.rt)

	Y
x	0 1
	0 3 7
	1 1 3

Crude OR : 1.286
 Crude PPV : 0.75 NPV : 0.3

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.1167	1.118	8.898e-01	0.09952	7.956	0.9168
x	0.5696	1.543	1.767e+00	0.08584	36.392	0.7121
abf\$sexe	1.3096	1.352	3.705e+00	0.26194	52.397	0.3326
abf\$edad	16.4366	3778.890	1.375e+07	0.00000	Inf	0.9965

GlmWithOr(x = abf\$cp20a8, y = abf\$idix.rt)

	Y
x	0 1
	0 2 7
	1 2 3

Crude OR : 0.4286
 Crude PPV : 0.6 NPV : 0.2222

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.2132	1.150	1.238e+00	0.12988	11.793	0.8529
x	-0.7372	1.370	4.785e-01	0.03260	7.021	0.5906
abf\$sexe	1.5382	1.422	4.656e+00	0.28658	75.651	0.2795
abf\$edad	15.8781	3778.890	7.866e+06	0.00000	Inf	0.9966

GlmWithOr(x = abf\$cp20a16, y = abf\$idix.rt)

	Y
x	0 1
	0 1 5
	1 3 5

Crude OR : 0.3333
 Crude PPV : 0.625 NPV : 0.1667

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.5464	1.316	1.727e+00	0.13086	22.793	0.6781
x	-1.0943	1.420	3.348e-01	0.02069	5.416	0.4410

```
abf$sexe      1.5161      1.419 4.554e+00 0.28214 73.513 0.2854
abf$edad      16.6613 3778.890 1.722e+07 0.00000      Inf 0.9965
```

```
GlmWithOr(x = abf$cp20a32, y = abf$idx.rt)
```

```
      Y
x     0 1
     0 1 2
     1 3 8
```

```
Crude OR : 1.333
Crude PPV : 0.7273      NPV : 0.3333
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.3215	1.528	7.250e-01	0.03625	14.50	0.8334
x	0.4317	1.460	1.540e+00	0.08802	26.94	0.7675
abf\$sexe	1.3569	1.347	3.884e+00	0.27712	54.44	0.3138
abf\$edad	16.1625	3778.890	1.045e+07	0.00000	Inf	0.9966

```
GlmWithOr(x = abf$an_rhin1, y = abf$idx.rt)
```

```
      Y
x     0 1
     0 2 0
     1 2 10
```

```
Crude OR : Inf
Crude PPV : 0.8333      NPV : 1
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-20.400	7182.195	1.382e-09	0.0000	Inf	0.9977
x	21.287	7182.195	1.757e+09	0.0000	Inf	0.9976
abf\$sexe	1.324	1.823	3.760e+00	0.1056	133.8	0.4674
abf\$edad	17.418	10272.087	3.670e+07	0.0000	Inf	0.9986

```
GlmWithOr(x = abf$an_brcol, y = abf$idx.rt)
```

```
      Y
x     0 1
     0 4 8
     1 0 2
```

```
Crude OR : Inf
Crude PPV : 1      NPV : 0.3333
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.0009313	1.068	9.991e-01	0.1232	8.105	0.9993
x	17.4406030	6242.430	3.753e+07	0.0000	Inf	0.9978
abf\$sexe	1.1868919	1.351	3.277e+00	0.2322	46.244	0.3795
abf\$edad	0.0029255	8819.581	1.003e+00	0.0000	Inf	1.0000

```
GlmWithOr(x = abf$asthfam, y = abf$idx.rt)
```

```
      Y
x     0 1
     0 4 6
     1 0 4
```

Crude OR : Inf
 Crude PPV : 1 NPV : 0.4

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.0009313	1.068	9.991e-01	0.12316	8.105	0.9993
x	19.1797705	5232.038	2.136e+08	0.00000	Inf	0.9971
abf\$sexe	0.4396616	1.415	1.552e+00	0.09698	24.844	0.7560
abf\$edad	19.1907588	10272.087	2.160e+08	0.00000	Inf	0.9985

GlmWithOr(x = abf\$asthmere, y = abf\$idx.rt)

	Y
x	0 1
	0 4 10

GlmWithOr(x = abf\$asthpere, y = abf\$idx.rt)

	Y
x	0 1
	0 4 8
	1 0 2

Crude OR : Inf
 Crude PPV : 1 NPV : 0.3333

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.0009313	1.068	9.991e-01	0.1232	8.105	0.9993
x	17.7272124	4320.615	4.998e+07	0.0000	Inf	0.9967
abf\$sexe	0.9412256	1.367	2.563e+00	0.1759	37.352	0.4911
abf\$edad	17.6891948	6230.336	4.812e+07	0.0000	Inf	0.9977

GlmWithOr(x = 2 - abf\$cig1, y = abf\$idx.rt)

	Y
x	0 1
	0 3 7
	1 1 3

Crude OR : 1.286
 Crude PPV : 0.75 NPV : 0.3

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.5098	1.403	6.006e-01	0.03839	9.397	0.7164
x	1.0180	1.736	2.768e+00	0.09221	83.077	0.5575
abf\$sexe	1.7324	1.544	5.654e+00	0.27444	116.501	0.2617
abf\$edad	16.4068	3778.890	1.335e+07	0.00000	Inf	0.9965

GlmWithOr(x = 2 - abf\$cigact1, y = abf\$idx.rt)

	Y
x	0 1
	0 1 1
	1 0 2

Crude OR : Inf
 Crude PPV : 1 NPV : 0.5

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	23.38	75993	1.424e+10	0	Inf	0.9998
x	46.56	108724	1.660e+20	0	Inf	0.9997
abf\$sexe	-46.67	108031	5.393e-21	0	Inf	0.9997

GlmWithOr(x = abf\$ns_rhin1, y = abf\$idx.rt)

	Y
x	0 1
	0 2 0
	1 2 10

Crude OR : Inf
Crude PPV : 0.8333 NPV : 1

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-20.701	7370.656	1.022e-09	0.0000	Inf	0.9978
x	21.231	7370.656	1.661e+09	0.0000	Inf	0.9977
abf\$sexe	1.682	1.704	5.376e+00	0.1904	151.8	0.3238
abf\$edad	17.418	10272.087	3.670e+07	0.0000	Inf	0.9986

GlmWithOr(x = abf\$po_brcol, y = abf\$idx.rt)

	Y
x	0 1
	0 3 7
	1 1 3

Crude OR : 1.286
Crude PPV : 0.75 NPV : 0.3

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.0009313	1.068	9.991e-01	0.12316	8.105	0.9993
x	-0.5342369	1.668	5.861e-01	0.02231	15.395	0.7487
abf\$sexe	1.5505619	1.498	4.714e+00	0.25010	88.855	0.3007
abf\$edad	16.6140953	3778.890	1.642e+07	0.00000	Inf	0.9965

GlmWithOr(x = abf\$po_rhin1, y = abf\$idx.rt)

	Y
x	0 1
	0 2 3
	1 2 7

Crude OR : 2.333
Crude PPV : 0.7778 NPV : 0.4

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.3817	1.298	6.827e-01	0.05368	8.684	0.7686
x	0.7101	1.324	2.034e+00	0.15191	27.240	0.5917
abf\$sexe	1.2847	1.362	3.614e+00	0.25061	52.107	0.3454
abf\$edad	16.0163	3778.890	9.032e+06	0.00000	Inf	0.9966

GlmWithOr(x = abf\$pvemsp, y = abf\$idx.rt)

	Y
x	0 1

```

0 4 10
GlmWithOr(x = abf$eib_time, y = abf$idx.rt)

```

```

      y
x      0 1
  0 1 1
  1 3 9

```

```

Crude OR : 3
Crude PPV : 0.75   NPV : 0.5

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.066	2.088	1.267e-01	0.002115	7.596	0.3226
x	2.065	1.795	7.883e+00	0.233938	265.633	0.2499
abf\$sexe	2.054	1.590	7.798e+00	0.345287	176.122	0.1966
abf\$edad	15.577	3778.890	5.818e+06	0.000000	Inf	0.9967

```

GlmWithOr(x = abf$ess_time, y = abf$idx.rt)

```

```

      y
x      0 1
  0 1 6
  1 3 4

```

```

Crude OR : 0.2222
Crude PPV : 0.5714   NPV : 0.1429

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.8686	1.367	2.384e+00	0.16354	34.744	0.5252
x	-1.7386	1.412	1.758e-01	0.01104	2.798	0.2182
abf\$sexe	1.3405	1.463	3.821e+00	0.21729	67.184	0.3595
abf\$edad	17.1590	3778.890	2.832e+07	0.00000	Inf	0.9964

```

GlmWithOr(x = abf$opp_time, y = abf$idx.rt)

```

```

      y
x      0 1
  0 1 8
  1 3 2

```

```

Crude OR : 0.08333
Crude PPV : 0.4   NPV : 0.1111

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	1.5354	1.634	4.643e+00	0.188863	114.161	0.34732
x	-3.0720	1.688	4.633e-02	0.001694	1.267	0.06878
abf\$sexe	0.6427	1.738	1.902e+00	0.063032	57.373	0.71156
abf\$edad	18.5233	3778.890	1.108e+08	0.000000	Inf	0.99609

```

GlmWithOr(x = abf$rhic_tm, y = abf$idx.rt)

```

```

      y
x      0 1
  1 4 10

```

```

GlmWithOr(x = abf$sil_time, y = abf$idx.rt)

```

```

      y
x      0 1

```

```

0 1 2
1 3 8

```

```

Crude OR : 1.333
Crude PPV : 0.7273   NPV : 0.3333

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.965	1.971	3.810e-01	0.00801	18.12	0.6244
x	0.964	1.656	2.622e+00	0.10211	67.33	0.5605
abf\$sexe	1.796	1.605	6.028e+00	0.25941	140.07	0.2630
abf\$edad	15.834	3778.890	7.527e+06	0.00000	Inf	0.9967

```
GlmWithOr(x = abf$spec_tm, y = abf$idx.rt)
```

```

      Y
x    0 1
    0 0 3
    1 4 7

```

```

Crude OR : 0
Crude PPV : 0.6364   NPV : 0

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	18.569	5761.365	1.159e+08	0.0000	Inf	0.9974
x	-19.299	5761.365	4.156e-09	0.0000	Inf	0.9973
abf\$sexe	1.742	1.571	5.711e+00	0.2629	124.1	0.2673
abf\$edad	18.617	10272.087	1.217e+08	0.0000	Inf	0.9986

```
GlmWithOr(x = abf$tr_es_tm, y = abf$idx.rt)
```

```

      Y
x    0 1
    0 0 2
    1 4 8

```

```

Crude OR : 0
Crude PPV : 0.6667   NPV : 0

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	17.748	4158.767	5.104e+07	0.0000	Inf	0.9966
x	-18.407	4158.767	1.013e-08	0.0000	Inf	0.9965
abf\$sexe	1.798	1.537	6.035e+00	0.2965	122.8	0.2423
abf\$edad	17.491	6230.336	3.948e+07	0.0000	Inf	0.9978

```
GlmWithOr(x = abf$tr_ne_tm, y = abf$idx.rt)
```

```

      Y
x    0 1
    1 4 10

```

```
GlmWithOr(x = abf$tr_pe_tm, y = abf$idx.rt)
```

```

      Y
x    0 1
    0 1 3
    1 3 7

```

```
Crude OR : 0.7778
```

Crude PPV : 0.7 NPV : 0.25

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.1900	1.509	8.269e-01	0.04296	15.92	0.8998
x	0.2549	1.433	1.290e+00	0.07785	21.39	0.8588
abf\$sexe	1.3647	1.345	3.914e+00	0.28055	54.62	0.3102
abf\$edad	16.4549	3778.890	1.400e+07	0.00000	Inf	0.9965

GlmWithOr(x = abf\$tr_rhitm, y = abf\$idx.rt)

	Y
x	0 1
	0 0 1
	1 4 9

Crude OR : 0
Crude PPV : 0.6923 NPV : 0

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	17.591	5876.840	4.360e+07	0.0000	Inf	0.9976
x	-17.591	5876.840	2.291e-08	0.0000	Inf	0.9976
abf\$sexe	1.139	1.353	3.124e+00	0.2201	44.34	0.3999
abf\$edad	17.491	6230.336	3.948e+07	0.0000	Inf	0.9978

GlmWithOr(x = abf\$tr_si_tm, y = abf\$idx.rt)

	Y
x	0 1
	0 0 1
	1 4 9

Crude OR : 0
Crude PPV : 0.6923 NPV : 0

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	18.530	6724.756	1.115e+08	0.0000	Inf	0.9978
x	-19.260	6724.756	4.321e-09	0.0000	Inf	0.9977
abf\$sexe	2.086	1.553	8.054e+00	0.3839	169	0.1791
abf\$edad	17.273	6230.336	3.175e+07	0.0000	Inf	0.9978

GlmWithOr(x = abf\$tr_ye_tm, y = abf\$idx.rt)

	Y
x	0 1
	0 0 4
	1 4 6

Crude OR : 0
Crude PPV : 0.6 NPV : 0

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	18.5896	5786.638	1.184e+08	0.0000	Inf	0.9974
x	-19.3198	5786.638	4.069e-09	0.0000	Inf	0.9973
abf\$sexe	1.7302	1.571	5.642e+00	0.2593	122.7	0.2709
abf\$edad	-0.6904	11789.866	5.014e-01	0.0000	Inf	1.0000

GlmWithOr(x = abf\$froid1, y = abf\$idx.rt)

```

      Y
x     0 1
    0 2 7
    1 2 3

```

Crude OR : 0.4286
 Crude PPV : 0.6 NPV : 0.2222

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.1518	1.114	1.164e+00	0.13120	10.327	0.8916
x	-0.7589	1.409	4.682e-01	0.02957	7.413	0.5902
abf\$sexe	1.5566	1.433	4.743e+00	0.28615	78.609	0.2772
abf\$edad	15.9210	3778.890	8.211e+06	0.00000	Inf	0.9966

GlmWithOr(x = abf\$fumeel, y = abf\$idix.rt)

```

      Y
x     0 1
    0 4 7
    1 0 3

```

Crude OR : Inf
 Crude PPV : 1 NPV : 0.3636

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.7301	1.324	4.818e-01	0.03596	6.457	0.5814
x	18.5060	4363.511	1.089e+08	0.00000	Inf	0.9966
abf\$sexe	1.9766	1.558	7.218e+00	0.34064	152.943	0.2045
abf\$edad	-1.1229	7606.399	3.253e-01	0.00000	Inf	0.9999

GlmWithOr(x = abf\$mites1, y = abf\$idix.rt)

```

      Y
x     0 1
    0 2 3
    1 2 7

```

Crude OR : 2.333
 Crude PPV : 0.7778 NPV : 0.4

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.327	1.706	2.654e-01	0.009367	7.517	0.4368
x	1.629	1.515	5.098e+00	0.261532	99.372	0.2824
abf\$sexe	1.800	1.544	6.049e+00	0.293185	124.805	0.2438
abf\$edad	17.156	3778.890	2.824e+07	0.000000	Inf	0.9964

GlmWithOr(x = abf\$molds1, y = abf\$idix.rt)

```

      Y
x     0 1
    0 2 7
    1 2 3

```

Crude OR : 0.4286

Crude PPV : 0.6 NPV : 0.2222

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.2505	1.154	1.285e+00	0.13387	12.33	0.8282
x	-0.8700	1.373	4.190e-01	0.02840	6.18	0.5264
abf\$sexe	1.5470	1.423	4.698e+00	0.28873	76.43	0.2770
abf\$edad	15.8320	3778.890	7.512e+06	0.00000	Inf	0.9967

GlmWithOr(x = abf\$natopie2 - 1, y = abf\$idx.rt)

	Y
x	0 1
	0 1 2
	1 3 8

Crude OR : 1.333
Crude PPV : 0.7273 NPV : 0.3333

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.193	1.984	3.032e-01	0.00621	14.81	0.5475
x	1.192	1.672	3.295e+00	0.12437	87.28	0.4757
abf\$sexe	1.868	1.601	6.478e+00	0.28120	149.22	0.2431
abf\$edad	15.762	3778.890	7.004e+06	0.00000	Inf	0.9967

GlmWithOr(x = abf\$pets1, y = abf\$idx.rt)

	Y
x	0 1
	0 1 4
	1 3 6

Crude OR : 0.5
Crude PPV : 0.6667 NPV : 0.2

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.3851	1.309	1.470e+00	0.11307	19.106	0.7685
x	-0.7718	1.454	4.622e-01	0.02675	7.986	0.5955
abf\$sexe	1.5303	1.418	4.619e+00	0.28675	74.417	0.2805
abf\$edad	16.4859	3778.890	1.445e+07	0.00000	Inf	0.9965

GlmWithOr(x = abf\$pollens1, y = abf\$idx.rt)

	Y
x	0 1
	0 1 4
	1 3 6

Crude OR : 0.5
Crude PPV : 0.6667 NPV : 0.2

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.2500	1.485	1.284e+00	0.06996	23.57	0.8663
x	-0.3381	1.382	7.132e-01	0.04750	10.71	0.8068
abf\$sexe	1.3065	1.356	3.693e+00	0.25892	52.68	0.3353
abf\$edad	16.4111	3778.890	1.340e+07	0.00000	Inf	0.9965

GlmWithOr(x = abf\$toux1, y = abf\$idx.rt)

```

      Y
x      0  1
  0  2 10
  1  2  0

```

Crude OR : 0
Crude PPV : 0 NPV : 0.1667

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.8868	1.399	2.427e+00	0.15658	37.63	0.5260
x	-19.9649	4643.842	2.135e-09	0.00000	Inf	0.9966
abf\$sexe	1.0230	1.732	2.781e+00	0.09325	82.97	0.5549
abf\$edad	16.7197	6230.336	1.825e+07	0.00000	Inf	0.9979

GlmWithOr(x = abf\$SyRes, y = abf\$idx.rt)

```

      Y
x      0  1
  0  1  4
  1  3  6

```

Crude OR : 0.5
Crude PPV : 0.6667 NPV : 0.2

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	0.4104	1.510	1.507e+00	0.07820	29.058	0.7857
x	-0.5404	1.384	5.825e-01	0.03866	8.777	0.6962
abf\$sexe	1.2349	1.375	3.438e+00	0.23207	50.930	0.3693
abf\$edad	16.5246	3778.890	1.502e+07	0.00000	Inf	0.9965

GlmWithOr(x = abf\$SyResTra, y = abf\$idx.rt)

```

      Y
x      0  1
  1  4 10

```

GlmWithOr(x = abf\$SyResFin, y = abf\$idx.rt)

```

      Y
x      0  1
  0  1  3
  1  3  7

```

Crude OR : 0.7778
Crude PPV : 0.7 NPV : 0.25

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-0.3160	1.955	7.291e-01	0.01580	33.63	0.8716
x	0.3151	1.637	1.370e+00	0.05535	33.93	0.8474
abf\$sexe	1.5258	1.625	4.599e+00	0.19043	111.06	0.3476
abf\$edad	16.1046	3778.890	9.866e+06	0.00000	Inf	0.9966

Referent : 285 Incident : 16

GlmWithOr(x = abf\$asthmemd, y = abf\$idx.rt)

Y

```

x      0    1
  0 266  12
  1  19   4

```

Crude OR : 4.667
Crude PPV : 0.1739 NPV : 0.9568

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.34177	0.7887	0.03537	0.00754	0.1660	2.264e-05
x	1.65500	0.6080	5.23310	1.58950	17.2289	6.485e-03
abf\$sexe	0.06918	0.7918	1.07163	0.22703	5.0584	9.304e-01
abf\$smk	-0.41881	0.8087	0.65783	0.13481	3.2101	6.046e-01
abf\$edad	0.88427	0.6539	2.42122	0.67207	8.7228	1.763e-01

GlmWithOr(x = abf\$cp20a8, y = abf\$idix.rt)

```

      Y
x      0    1
  0 238  10
  1  31   5

```

Crude OR : 3.839
Crude PPV : 0.1389 NPV : 0.9597

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.2549	0.7792	0.03859	0.00838	0.1777	2.948e-05
x	1.5319	0.5831	4.62698	1.47555	14.5091	8.611e-03
abf\$sexe	-0.1133	0.7935	0.89291	0.18853	4.2291	8.865e-01
abf\$smk	-1.2558	1.0462	0.28484	0.03665	2.2138	2.300e-01
abf\$edad	1.2790	0.6589	3.59303	0.98771	13.0706	5.224e-02

GlmWithOr(x = abf\$cp20a16, y = abf\$idix.rt)

```

      Y
x      0    1
  0 200   9
  1  69   6

```

Crude OR : 1.932
Crude PPV : 0.08 NPV : 0.957

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.2393	0.7844	0.03919	0.008425	0.1823	0.0000363
x	0.8965	0.5570	2.45103	0.822687	7.3024	0.1074967
abf\$sexe	-0.1103	0.7841	0.89554	0.192595	4.1641	0.8880979
abf\$smk	-1.2193	1.0396	0.29543	0.038505	2.2668	0.2408701
abf\$edad	1.4427	0.6474	4.23209	1.189948	15.0515	0.0258398

GlmWithOr(x = abf\$cp20a32, y = abf\$idix.rt)

```

      Y
x      0    1
  0 177   7
  1  92   8

```

Crude OR : 2.199
Crude PPV : 0.08 NPV : 0.962

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.3077	0.7867	0.0366	0.007831	0.1710	2.616e-05
x	1.0144	0.5556	2.7576	0.928150	8.1931	6.789e-02
abf\$sexe	-0.1907	0.7856	0.8264	0.177195	3.8538	8.082e-01
abf\$smk	-1.2348	1.0388	0.2909	0.037975	2.2283	2.346e-01
abf\$edad	1.3720	0.6458	3.9433	1.112075	13.9828	3.363e-02

GlmWithOr(x = abf\$an_rhin1, y = abf\$idix.rt)

	Y	
x	0	1
	0	204
	1	81

Crude OR : 1.511
Crude PPV : 0.06897 NPV : 0.9533

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.14771	0.7507	0.04295	0.009863	0.1870	2.751e-05
x	0.44654	0.5408	1.56289	0.541490	4.5110	4.090e-01
abf\$sexe	-0.04181	0.7547	0.95905	0.218491	4.2097	9.558e-01
abf\$smk	-0.47185	0.7924	0.62385	0.131997	2.9484	5.515e-01
abf\$edad	1.07584	0.6203	2.93247	0.869491	9.8901	8.283e-02

GlmWithOr(x = abf\$an_brcol, y = abf\$idix.rt)

	Y	
x	0	1
	0	272
	1	13

Crude OR : 1.395
Crude PPV : 0.07143 NPV : 0.9477

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.04452	0.7288	0.04762	0.01141	0.1987	2.951e-05
x	0.54486	0.9701	1.72436	0.25755	11.5448	5.744e-01
abf\$sexe	-0.02753	0.7539	0.97285	0.22199	4.2634	9.709e-01
abf\$smk	-0.51578	0.7974	0.59703	0.12510	2.8493	5.177e-01
abf\$edad	1.11334	0.6211	3.04450	0.90130	10.2840	7.303e-02

GlmWithOr(x = abf\$asthfam, y = abf\$idix.rt)

	Y	
x	0	1
	0	225
	1	60

Crude OR : 1.705
Crude PPV : 0.07692 NPV : 0.9534

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.20917	0.7530	0.04039	0.009232	0.1767	2.028e-05
x	0.74022	0.5594	2.09639	0.700315	6.2756	1.858e-01
abf\$sexe	-0.05417	0.7584	0.94727	0.214236	4.1885	9.431e-01
abf\$smk	-0.45861	0.7980	0.63216	0.132291	3.0208	5.655e-01
abf\$edad	1.16075	0.6250	3.19232	0.937837	10.8664	6.327e-02

```
GlmWithOr(x = abf$asthmere, y = abf$idx.rt)
```

```
      Y
x      0  1
  0 267 15
  1  18  1
```

```
Crude OR : 0.9889
Crude PPV : 0.05263   NPV : 0.9468
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.08707	0.7434	0.04564	0.01063	0.1959	3.287e-05
x	0.48302	0.8918	1.62096	0.28230	9.3076	5.881e-01
abf\$sexe	0.01604	0.7577	1.01617	0.23014	4.4868	9.831e-01
abf\$smk	-0.49409	0.7947	0.61013	0.12852	2.8964	5.341e-01
abf\$edad	1.10681	0.6195	3.02470	0.89820	10.1858	7.399e-02

```
GlmWithOr(x = abf$asthpere, y = abf$idx.rt)
```

```
      Y
x      0  1
  0 273 16
  1  12  0
```

```
Crude OR : 0
Crude PPV : 0   NPV : 0.9446
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.00112	0.7204	4.973e-02	0.01212	0.2041	3.103e-05
x	-14.51721	1132.0661	4.957e-07	0.00000	Inf	9.898e-01
abf\$sexe	0.01893	0.7496	1.019e+00	0.23451	4.4288	9.798e-01
abf\$smk	-0.50688	0.7949	6.024e-01	0.12684	2.8608	5.237e-01
abf\$edad	1.06490	0.6182	2.901e+00	0.86356	9.7424	8.495e-02

```
GlmWithOr(x = 2 - abf$cig1, y = abf$idx.rt)
```

```
      Y
x      0  1
  0 210 10
  1  74  6
```

```
Crude OR : 1.703
Crude PPV : 0.075   NPV : 0.9545
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.16387	0.7346	0.04226	0.01001	0.1783	1.656e-05
x	0.90192	0.6240	2.46432	0.72537	8.3721	1.483e-01
abf\$sexe	-0.04873	0.7516	0.95244	0.21830	4.1554	9.483e-01
abf\$smk	-1.17065	0.8931	0.31017	0.05388	1.7856	1.899e-01
abf\$edad	0.97357	0.6281	2.64738	0.77307	9.0660	1.211e-01

```
GlmWithOr(x = 2 - abf$cigact1, y = abf$idx.rt)
```

```
      Y
x      0  1
  0 48  4
```

1 27 2

Crude OR : 0.8889
Crude PPV : 0.06897 NPV : 0.923

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.39598	1.4543	0.09108	0.005267	1.575	0.09945
x	-0.12198	0.9855	0.88516	0.128274	6.108	0.90149
abf\$sexe	0.05583	1.3818	1.05742	0.070483	15.864	0.96777
abf\$smk	-1.12726	0.9127	0.32392	0.054139	1.938	0.21682
abf\$edad	1.10806	0.9006	3.02846	0.518358	17.694	0.21857

GlmWithOr(x = abf\$ns_rhin1, y = abf\$idx.rt)

	Y
x	0 1
0	158 6
1	127 10

Crude OR : 2.073
Crude PPV : 0.07299 NPV : 0.9634

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.3863	0.7953	0.03383	0.007119	0.1608	2.062e-05
x	0.7739	0.5561	2.16821	0.729015	6.4486	1.640e-01
abf\$sexe	-0.0608	0.7574	0.94101	0.213249	4.1524	9.360e-01
abf\$smk	-0.4852	0.7938	0.61556	0.129891	2.9172	5.410e-01
abf\$edad	0.9673	0.6281	2.63085	0.768176	9.0101	1.235e-01

GlmWithOr(x = abf\$po_brcol, y = abf\$idx.rt)

	Y
x	0 1
0	279 16
1	6 0

Crude OR : 0
Crude PPV : 0 NPV : 0.9458

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.95802	0.7257	5.192e-02	0.01252	0.2153	4.583e-05
x	-14.57577	1633.0588	4.675e-07	0.00000	Inf	9.929e-01
abf\$sexe	-0.05484	0.7525	9.466e-01	0.21659	4.1374	9.419e-01
abf\$smk	-0.53182	0.7930	5.875e-01	0.12417	2.7800	5.025e-01
abf\$edad	1.08581	0.6185	2.962e+00	0.88118	9.9553	7.918e-02

GlmWithOr(x = abf\$po_rhin1, y = abf\$idx.rt)

	Y
x	0 1
0	220 13
1	65 3

Crude OR : 0.781
Crude PPV : 0.04412 NPV : 0.9442

	coefi	s.d.coe	or	lcl	ucl	p
--	-------	---------	----	-----	-----	---

(Intercept)	-2.96093	0.7350	0.05177	0.01226	0.2186	5.608e-05
x	-0.26039	0.6668	0.77075	0.20863	2.8474	6.961e-01
abf\$sexe	-0.02380	0.7509	0.97648	0.22411	4.2547	9.747e-01
abf\$smk	-0.51541	0.7940	0.59725	0.12597	2.8317	5.163e-01
abf\$edad	1.12689	0.6199	3.08603	0.91569	10.4005	6.908e-02

GlmWithOr(x = abf\$pvemsp, y = abf\$idx.rt)

	Y	
x	0	1
0	265	15
1	7	0

Crude OR : 0
Crude PPV : 0 NPV : 0.9464

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.96203	0.7308	5.171e-02	0.01235	0.2166	5.053e-05
x	-14.56836	1399.8392	4.710e-07	0.00000	Inf	9.917e-01
abf\$sexe	-0.05069	0.7606	9.506e-01	0.21409	4.2206	9.469e-01
abf\$smk	-1.15178	1.0382	3.161e-01	0.04131	2.4182	2.672e-01
abf\$edad	1.39769	0.6343	4.046e+00	1.16714	14.0248	2.755e-02

GlmWithOr(x = abf\$eib_time, y = abf\$idx.rt)

	Y	
x	0	1
0	191	7
1	94	9

Crude OR : 2.612
Crude PPV : 0.08738 NPV : 0.9646

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.47438	0.8091	0.03098	0.006344	0.1513	1.755e-05
x	1.15049	0.5398	3.15974	1.096833	9.1026	3.307e-02
abf\$sexe	-0.09966	0.7798	0.90515	0.196314	4.1734	8.983e-01
abf\$smk	-0.63618	0.8031	0.52931	0.109680	2.5544	4.283e-01
abf\$edad	1.16989	0.6378	3.22163	0.922962	11.2452	6.661e-02

GlmWithOr(x = abf\$ess_time, y = abf\$idx.rt)

	Y	
x	0	1
0	233	12
1	52	4

Crude OR : 1.494
Crude PPV : 0.07143 NPV : 0.951

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.096630	0.7506	0.0452	0.01038	0.1968	0.000037
x	0.314062	0.6165	1.3690	0.40888	4.5835	0.610478
abf\$sexe	-0.004521	0.7563	0.9955	0.22609	4.3833	0.995230
abf\$smk	-0.517120	0.7934	0.5962	0.12592	2.8233	0.514543
abf\$edad	1.115486	0.6203	3.0511	0.90456	10.2911	0.072135

GlmWithOr(x = abf\$opp_time, y = abf\$idx.rt)

	Y	
x	0	1
0	270	14
1	15	2

Crude OR : 2.571
Crude PPV : 0.1176 NPV : 0.9507

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.2338	0.7690	0.03941	0.00873	0.1779	2.609e-05
x	1.1819	0.7367	3.26043	0.76954	13.8139	1.086e-01
abf\$sexe	0.1177	0.7736	1.12491	0.24695	5.1242	8.791e-01
abf\$smk	-0.5528	0.7971	0.57531	0.12062	2.7440	4.879e-01
abf\$edad	1.0021	0.6330	2.72412	0.78774	9.4205	1.134e-01

GlmWithOr(x = abf\$rhic_tm, y = abf\$idx.rt)

	Y	
x	0	1
0	197	9
1	88	7

Crude OR : 1.741
Crude PPV : 0.07368 NPV : 0.9563

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.299372	0.7806	0.03691	0.007991	0.1704	2.374e-05
x	0.648992	0.5404	1.91361	0.663545	5.5187	2.298e-01
abf\$sexe	0.009845	0.7572	1.00989	0.228940	4.4548	9.896e-01
abf\$smk	-0.583188	0.8002	0.55812	0.116310	2.6781	4.661e-01
abf\$edad	1.230700	0.6332	3.42362	0.989626	11.8441	5.196e-02

GlmWithOr(x = abf\$sil_time, y = abf\$idx.rt)

	Y	
x	0	1
0	211	10
1	74	6

Crude OR : 1.711
Crude PPV : 0.075 NPV : 0.9548

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.2394752	0.7699	0.03918	0.008666	0.1772	2.579e-05
x	0.6349173	0.5415	1.88687	0.652915	5.4529	2.409e-01
abf\$sexe	0.0009199	0.7582	1.00092	0.226493	4.4233	9.990e-01
abf\$smk	-0.5673109	0.7987	0.56705	0.118519	2.7130	4.775e-01
abf\$edad	1.1389652	0.6256	3.12353	0.916458	10.6458	6.868e-02

GlmWithOr(x = abf\$spec_tim, y = abf\$idx.rt)

	Y	
x	0	1
0	238	12
1	47	4

Crude OR : 1.688
Crude PPV : 0.07843 NPV : 0.952

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.17042	0.7621	0.04199	0.009428	0.1870	3.178e-05
x	0.51843	0.6740	1.67939	0.448173	6.2930	4.418e-01
abf\$sexe	0.02850	0.7564	1.02891	0.233611	4.5317	9.699e-01
abf\$smk	-0.52586	0.7941	0.59105	0.124652	2.8025	5.078e-01
abf\$edad	1.21589	0.6390	3.37331	0.964102	11.8029	5.707e-02

GlmWithOr(x = abf\$str_es_tm, y = abf\$idx.rt)

	Y	
x	0	1
0	281	15
1	4	1

Crude OR : 4.683
Crude PPV : 0.2 NPV : 0.9493

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.073395	0.7372	0.04626	0.01091	0.1962	3.057e-05
x	1.426707	1.1126	4.16496	0.47049	36.8697	1.997e-01
abf\$sexe	0.003581	0.7612	1.00359	0.22574	4.4617	9.962e-01
abf\$smk	-0.489152	0.7918	0.61315	0.12990	2.8940	5.367e-01
abf\$edad	1.010720	0.6323	2.74758	0.79561	9.4886	1.100e-01

GlmWithOr(x = abf\$str_ne_tm, y = abf\$idx.rt)

	Y	
x	0	1
0	206	10
1	79	6

Crude OR : 1.565
Crude PPV : 0.07059 NPV : 0.9537

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.21242	0.7693	0.04026	0.008913	0.1818	2.969e-05
x	0.48792	0.5531	1.62893	0.550925	4.8163	3.777e-01
abf\$sexe	0.01896	0.7555	1.01914	0.231800	4.4808	9.800e-01
abf\$smk	-0.58073	0.7996	0.55949	0.116718	2.6820	4.677e-01
abf\$edad	1.18003	0.6267	3.25447	0.952819	11.1160	5.972e-02

GlmWithOr(x = abf\$str_pe_tm, y = abf\$idx.rt)

	Y	
x	0	1
0	223	11
1	62	5

Crude OR : 1.635
Crude PPV : 0.07463 NPV : 0.953

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.07799	0.7320	0.04605	0.01097	0.1934	2.615e-05
x	0.43838	0.5925	1.55020	0.48538	4.9509	4.593e-01

```
abf$sexe    -0.08125  0.7591 0.92196 0.20824  4.0819 9.148e-01
abf$smk     -0.53453  0.7943 0.58595 0.12351  2.7797 5.010e-01
abf$edad    1.15144  0.6224 3.16275 0.93385 10.7115 6.431e-02
```

GlmWithOr(x = abf\$tr_rhitm, y = abf\$idx.rt)

```
      Y
x      0      1
0 215  11
1  70   5
```

Crude OR : 1.396
Crude PPV : 0.06667 NPV : 0.9513

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.13531	0.7520	0.04349	0.00996	0.1899	3.053e-05
x	0.42138	0.5736	1.52406	0.49521	4.6904	4.625e-01
abf\$sexe	-0.02242	0.7547	0.97783	0.22278	4.2919	9.763e-01
abf\$smk	-0.54154	0.7939	0.58185	0.12276	2.7579	4.952e-01
abf\$edad	1.15898	0.6241	3.18669	0.93778	10.8287	6.331e-02

GlmWithOr(x = abf\$tr_si_tm, y = abf\$idx.rt)

```
      Y
x      0      1
0 284  16
1   1   0
```

Crude OR : 0
Crude PPV : 0 NPV : 0.9467

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.01505	0.7223	4.904e-02	0.01190	0.2020	2.993e-05
x	-12.57514	1413.8763	3.457e-06	0.00000	Inf	9.929e-01
abf\$sexe	-0.01455	0.7506	9.856e-01	0.22635	4.2913	9.845e-01
abf\$smk	-0.52054	0.7938	5.942e-01	0.12540	2.8156	5.120e-01
abf\$edad	1.10849	0.6182	3.030e+00	0.90206	10.1762	7.294e-02

GlmWithOr(x = abf\$tr_ye_tm, y = abf\$idx.rt)

```
      Y
x      0      1
0 240  11
1  45   5
```

Crude OR : 2.424
Crude PPV : 0.1 NPV : 0.9562

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.24409	0.7669	0.03900	0.008677	0.1753	2.333e-05
x	0.95703	0.5806	2.60394	0.834429	8.1260	9.931e-02
abf\$sexe	-0.02159	0.7662	0.97864	0.218006	4.3932	9.775e-01
abf\$smk	-0.47735	0.7906	0.62043	0.131742	2.9218	5.460e-01
abf\$edad	1.16180	0.6269	3.19567	0.935301	10.9187	6.384e-02

GlmWithOr(x = abf\$froid1, y = abf\$idx.rt)

	Y		
x	0	1	
	0	243	12
	1	42	4

Crude OR : 1.929
 Crude PPV : 0.08696 NPV : 0.953

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.13106	0.7439	0.04367	0.01016	0.1877	2.562e-05
x	0.91973	0.5874	2.50863	0.79326	7.9333	1.174e-01
abf\$sexe	-0.08196	0.7658	0.92131	0.20540	4.1325	9.148e-01
abf\$smk	-0.56912	0.7989	0.56602	0.11825	2.7093	4.762e-01
abf\$edad	0.97934	0.6334	2.66269	0.76936	9.2154	1.221e-01

GlmWithOr(x = abf\$fumeel, y = abf\$idx.rt)

	Y		
x	0	1	
	0	270	14
	1	15	2

Crude OR : 2.571
 Crude PPV : 0.1176 NPV : 0.9507

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.09170	0.7398	0.04542	0.01065	0.1937	2.929e-05
x	0.67089	0.8298	1.95597	0.38463	9.9469	4.188e-01
abf\$sexe	0.01955	0.7594	1.01974	0.23021	4.5171	9.795e-01
abf\$smk	-0.53192	0.7949	0.58747	0.12370	2.7901	5.034e-01
abf\$edad	1.03429	0.6311	2.81312	0.81659	9.6911	1.012e-01

GlmWithOr(x = abf\$mites1, y = abf\$idx.rt)

	Y		
x	0	1	
	0	183	12
	1	101	4

Crude OR : 0.604
 Crude PPV : 0.03810 NPV : 0.9385

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.82582	0.7412	0.05926	0.01386	0.2533	0.0001376
x	-0.57594	0.6476	0.56218	0.15798	2.0005	0.3738476
abf\$sexe	-0.04076	0.7505	0.96006	0.22051	4.1799	0.9566936
abf\$smk	-0.50309	0.7971	0.60466	0.12677	2.8842	0.5279521
abf\$edad	1.02655	0.6243	2.79141	0.82109	9.4898	0.1001268

GlmWithOr(x = abf\$molds1, y = abf\$idx.rt)

	Y		
x	0	1	
	0	251	14
	1	33	2

Crude OR : 1.087

Crude PPV : 0.05714 NPV : 0.9472

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.98241	0.7337	0.05067	0.01203	0.2134	4.806e-05
x	-0.21840	0.8959	0.80381	0.13886	4.6531	8.074e-01
abf\$sexe	-0.02622	0.7527	0.97412	0.22280	4.2590	9.722e-01
abf\$smk	-0.53403	0.7965	0.58624	0.12304	2.7931	5.026e-01
abf\$edad	1.11598	0.6198	3.05255	0.90595	10.2854	7.177e-02

GlmWithOr(x = abf\$natopie2 - 1, y = abf\$idx.rt)

	Y	
x	0	1
	0 169	11
	1 114	5

Crude OR : 0.6738
Crude PPV : 0.04202 NPV : 0.9389

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.81486	0.7379	0.05991	0.01411	0.2544	0.0001363
x	-0.60968	0.5992	0.54353	0.16796	1.7588	0.3088862
abf\$sexe	-0.01457	0.7506	0.98554	0.22634	4.2913	0.9845157
abf\$smk	-0.56129	0.8023	0.57047	0.11839	2.7488	0.4841685
abf\$edad	1.11345	0.6230	3.04484	0.89796	10.3246	0.0739053

GlmWithOr(x = abf\$pets1, y = abf\$idx.rt)

	Y	
x	0	1
	0 231	12
	1 52	4

Crude OR : 1.481
Crude PPV : 0.07143 NPV : 0.9506

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.02661	0.7253	0.04848	0.0117	0.2009	3.006e-05
x	0.12759	0.6523	1.13609	0.3163	4.0801	8.449e-01
abf\$sexe	-0.02313	0.7527	0.97713	0.2235	4.2726	9.755e-01
abf\$smk	-0.51876	0.7932	0.59526	0.1257	2.8178	5.131e-01
abf\$edad	1.09450	0.6200	2.98769	0.8863	10.0716	7.752e-02

GlmWithOr(x = abf\$pollens1, y = abf\$idx.rt)

	Y	
x	0	1
	0 194	8
	1 90	8

Crude OR : 2.156
Crude PPV : 0.08163 NPV : 0.9604

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.229510	0.7633	0.03958	0.008865	0.1767	2.328e-05
x	0.536484	0.5362	1.70998	0.597878	4.8907	3.170e-01
abf\$sexe	0.001425	0.7517	1.00143	0.229483	4.3700	9.985e-01
abf\$smk	-0.432757	0.7938	0.64872	0.136894	3.0742	5.856e-01

abf\$edad 1.012447 0.6234 2.75233 0.811141 9.3391 1.043e-01

GlmWithOr(x = abf\$toux1, y = abf\$idx.rt)

	Y	
x	0	1
0	273	16
1	12	0

Crude OR : 0
Crude PPV : 0 NPV : 0.9446

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.00423	0.7256	4.958e-02	0.01196	0.2055	3.466e-05
x	-14.86800	1101.0429	3.491e-07	0.00000	Inf	9.892e-01
abf\$sexe	0.03087	0.7532	1.031e+00	0.23567	4.5135	9.673e-01
abf\$smk	-0.58757	0.7957	5.557e-01	0.11683	2.6429	4.602e-01
abf\$edad	1.14444	0.6221	3.141e+00	0.92795	10.6298	6.580e-02

GlmWithOr(x = abf\$SyRes, y = abf\$idx.rt)

	Y	
x	0	1
0	223	11
1	62	5

Crude OR : 1.635
Crude PPV : 0.07463 NPV : 0.953

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.2373	0.7697	0.03927	0.008688	0.1775	2.598e-05
x	0.6533	0.5531	1.92196	0.649989	5.6831	2.375e-01
abf\$sexe	0.0247	0.7611	1.02501	0.230601	4.5561	9.741e-01
abf\$smk	-0.5314	0.7952	0.58780	0.123689	2.7934	5.040e-01
abf\$edad	1.1018	0.6238	3.00946	0.886231	10.2195	7.734e-02

GlmWithOr(x = abf\$SyResTra, y = abf\$idx.rt)

	Y	
x	0	1
0	285	16

GlmWithOr(x = abf\$SyResFin, y = abf\$idx.rt)

	Y	
x	0	1
0	234	13
1	51	3

Crude OR : 1.059
Crude PPV : 0.05556 NPV : 0.9474

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.01228	0.7429	0.04918	0.01147	0.2109	5.021e-05
x	-0.01683	0.6655	0.98331	0.26684	3.6235	9.798e-01
abf\$sexe	-0.01997	0.7533	0.98023	0.22391	4.2911	9.789e-01
abf\$smk	-0.51686	0.7940	0.59639	0.12581	2.8271	5.151e-01
abf\$edad	1.11345	0.6195	3.04484	0.90410	10.2545	7.230e-02

=====

Bronchial Hyper-Responsiveness

=====

Persistent : 17 Remission : 19

GlmWithOr(x = abf\$asthmemd, y = abf\$idx.bh)

	Y	
x	0	1
	0	12 17
	1	5 2

Crude OR : 0.2824
Crude PPV : 0.2857 NPV : 0.4138

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.1118	6.347e-08	0.00000	Inf	0.99446
x	-1.754	0.9888	1.732e-01	0.02493	1.203	0.07617
abf\$sexe	17.126	2387.1119	2.740e+07	0.00000	Inf	0.99428
abf\$smk	-1.372	1.2382	2.537e-01	0.02240	2.872	0.26794
abf\$edad	17.309	2568.7337	3.289e+07	0.00000	Inf	0.99462

GlmWithOr(x = abf\$cp20a8, y = abf\$idx.bh)

	Y	
x	0	1
	0	11 17
	1	6 2

Crude OR : 0.2157
Crude PPV : 0.25 NPV : 0.3929

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.1118	6.347e-08	0.00000	Inf	0.99446
x	-1.828	0.9372	1.607e-01	0.02560	1.009	0.05113
abf\$sexe	17.211	2387.1119	2.984e+07	0.00000	Inf	0.99425
abf\$smk	-1.457	1.2438	2.329e-01	0.02035	2.667	0.24146
abf\$edad	17.309	2568.7337	3.289e+07	0.00000	Inf	0.99462

GlmWithOr(x = abf\$cp20a16, y = abf\$idx.bh)

	Y	
x	0	1
	0	4 16
	1	13 3

Crude OR : 0.05769
Crude PPV : 0.1875 NPV : 0.2

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-17.573	3935.6819	2.335e-08	0.000000	Inf	0.9964375
x	-3.379	0.9923	3.407e-02	0.004872	0.2383	0.0006606
abf\$sexe	19.560	3935.6820	3.125e+08	0.000000	Inf	0.9960346
abf\$smk	-2.068	1.5046	1.264e-01	0.006626	2.4132	0.1693070
abf\$edad	17.571	4235.1255	4.274e+07	0.000000	Inf	0.9966897

```
GlmWithOr(x = abf$cp20a32, y = abf$idx.bh)
```

```
      Y
x      0  1
      0  3 15
      1 14  4
```

```
Crude OR : 0.05714
Crude PPV : 0.2222    NPV : 0.1667
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-17.573	3935.682	2.335e-08	0.000000	Inf	0.996437
x	-3.713	1.143	2.441e-02	0.002601	0.2291	0.001156
abf\$sexe	20.059	3935.682	5.148e+08	0.000000	Inf	0.995933
abf\$smk	-2.547	1.632	7.834e-02	0.003199	1.9187	0.118609
abf\$edad	17.550	4235.126	4.188e+07	0.000000	Inf	0.996694

```
GlmWithOr(x = abf$an_rhin1, y = abf$idx.bh)
```

```
      Y
x      0  1
      0  8  9
      1  9 10
```

```
Crude OR : 0.9877
Crude PPV : 0.5263    NPV : 0.4706
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.1118	6.347e-08	0.000000	Inf	0.9945
x	-0.1797	0.7013	8.355e-01	0.21133	3.303	0.7977
abf\$sexe	16.8397	2387.1119	2.058e+07	0.000000	Inf	0.9944
abf\$smk	-1.0315	1.2317	3.565e-01	0.03188	3.985	0.4023
abf\$edad	17.2549	2568.7337	3.117e+07	0.000000	Inf	0.9946

```
GlmWithOr(x = abf$an_brcol, y = abf$idx.bh)
```

```
      Y
x      0  1
      0 14 19
      1  3  0
```

```
Crude OR : 0
Crude PPV : 0    NPV : 0.4242
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-17.573	3935.682	2.335e-08	0.0000	Inf	0.9964
x	-18.012	2258.110	1.505e-08	0.0000	Inf	0.9936
abf\$sexe	17.994	3935.682	6.527e+07	0.0000	Inf	0.9964
abf\$smk	-1.240	1.226	2.895e-01	0.0262	3.198	0.3118
abf\$edad	18.309	4235.125	8.941e+07	0.0000	Inf	0.9966

```
GlmWithOr(x = abf$asthfam, y = abf$idx.bh)
```

```
      Y
x      0  1
      0 11 16
```

1 6 3

Crude OR : 0.3438
Crude PPV : 0.3333 NPV : 0.4074

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.1118	6.347e-08	0.00000	Inf	0.99446
x	-1.423	0.8565	2.409e-01	0.04496	1.291	0.09653
abf\$sexe	17.151	2387.1119	2.809e+07	0.00000	Inf	0.99427
abf\$smk	-1.397	1.2450	2.474e-01	0.02156	2.839	0.26189
abf\$edad	17.309	2568.7337	3.289e+07	0.00000	Inf	0.99462

GlmWithOr(x = abf\$asthmere, y = abf\$idx.bh)

	Y
x	0 1
	0 15 18
	1 2 1

Crude OR : 0.4167
Crude PPV : 0.3333 NPV : 0.4545

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.112	6.347e-08	0.00000	Inf	0.9945
x	-1.550	1.404	2.122e-01	0.01355	3.323	0.2694
abf\$sexe	16.888	2387.112	2.159e+07	0.00000	Inf	0.9944
abf\$smk	-1.133	1.224	3.219e-01	0.02921	3.548	0.3546
abf\$edad	17.309	2568.734	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$asthpere, y = abf\$idx.bh)

	Y
x	0 1
	0 16 19
	1 1 0

Crude OR : 0
Crude PPV : 0 NPV : 0.4571

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-17.573	3935.682	2.335e-08	0.00000	Inf	0.9964
x	-17.840	3876.233	1.787e-08	0.00000	Inf	0.9963
abf\$sexe	17.820	3935.682	5.484e+07	0.00000	Inf	0.9964
abf\$smk	-1.066	1.220	3.445e-01	0.03155	3.761	0.3822
abf\$edad	18.309	4235.125	8.941e+07	0.00000	Inf	0.9966

GlmWithOr(x = 2 - abf\$cigl, y = abf\$idx.bh)

	Y
x	0 1
	0 13 15
	1 4 4

Crude OR : 0.8667
Crude PPV : 0.5 NPV : 0.4643

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.112	6.347e-08	0.00000	Inf	0.9945

x	-0.5076	1.153	6.019e-01	0.06286	5.763	0.6597
abf\$sexe	16.7982	2387.112	1.974e+07	0.00000	Inf	0.9944
abf\$smk	-0.5364	1.591	5.849e-01	0.02589	13.215	0.7360
abf\$edad	17.3087	2568.734	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = 2 - abf\$cigact1, y = abf\$idx.bh)

	Y
x	0 1
	0 2 2
	1 2 2

Crude OR : 1
Crude PPV : 0.5 NPV : 0.5

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.204052	1.960	3.000e-01	0.006438	13.98	0.5390
x	1.133662	1.918	3.107e+00	0.072433	133.28	0.5544
abf\$smk	-0.008475	1.856	9.916e-01	0.026068	37.72	0.9964
abf\$edad	18.702823	4235.126	1.326e+08	0.000000	Inf	0.9965

GlmWithOr(x = abf\$ns_rhin1, y = abf\$idx.bh)

	Y
x	0 1
	0 6 8
	1 11 11

Crude OR : 0.75
Crude PPV : 0.5 NPV : 0.4286

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-0.642	0.7865	5.263e-01	0.11265	2.459	0.4144
abf\$sexe	17.171	2387.1119	2.867e+07	0.00000	Inf	0.9943
abf\$smk	-1.417	1.3312	2.424e-01	0.01784	3.294	0.2871
abf\$edad	17.309	2568.7337	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$po_brcol, y = abf\$idx.bh)

	Y
x	0 1
	0 15 19
	1 2 0

Crude OR : 0
Crude PPV : 0 NPV : 0.4412

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-17.573	3935.682	2.335e-08	0.00000	Inf	0.9964
x	-17.841	2886.784	1.786e-08	0.00000	Inf	0.9951
abf\$sexe	17.879	3935.682	5.820e+07	0.00000	Inf	0.9964
abf\$smk	-1.125	1.222	3.246e-01	0.02962	3.558	0.3570
abf\$edad	18.309	4235.125	8.941e+07	0.00000	Inf	0.9966

GlmWithOr(x = abf\$po_rhin1, y = abf\$idx.bh)

```

      Y
x      0  1
      0  7 15
      1 10  4

```

Crude OR : 0.1867
Crude PPV : 0.2857 NPV : 0.3182

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-17.573	3935.6819	2.335e-08	0.00000	Inf	0.996437
x	-2.183	0.8409	1.127e-01	0.02168	0.5855	0.009417
abf\$sexe	18.691	3935.6820	1.311e+08	0.00000	Inf	0.996211
abf\$smk	-1.937	1.2870	1.441e-01	0.01157	1.7954	0.132259
abf\$edad	18.309	4235.1255	8.941e+07	0.00000	Inf	0.996551

GlmWithOr(x = abf\$pvemsp, y = abf\$idx.bh)

```

      Y
x      0  1
      0 16 18
      1  1  1

```

Crude OR : 0.8889
Crude PPV : 0.5 NPV : 0.4706

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.112	6.347e-08	0.00000	Inf	0.9945
x	0.2324	1.334	1.262e+00	0.09234	17.236	0.8617
abf\$sexe	16.7218	2387.112	1.829e+07	0.00000	Inf	0.9944
abf\$smk	-0.9676	1.222	3.800e-01	0.03464	4.168	0.4285
abf\$edad	17.3087	2568.734	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$eib_time, y = abf\$idx.bh)

```

      Y
x      0  1
      0  5 11
      1 12  8

```

Crude OR : 0.3030
Crude PPV : 0.4 NPV : 0.3125

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-1.279	0.7371	2.784e-01	0.06566	1.181	0.0828
abf\$sexe	17.469	2387.1119	3.861e+07	0.00000	Inf	0.9942
abf\$smk	-1.002	1.2736	3.672e-01	0.03026	4.457	0.4316
abf\$edad	16.596	2568.7337	1.612e+07	0.00000	Inf	0.9948

GlmWithOr(x = abf\$ess_time, y = abf\$idx.bh)

```

      Y
x      0  1
      0 11 11
      1  6  8

```

Crude OR : 1.333

Crude PPV : 0.5714 NPV : 0.5

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	0.1762	0.7116	1.193e+00	0.29569	4.811	0.8044
abf\$sexe	16.6712	2387.1119	1.739e+07	0.00000	Inf	0.9944
abf\$smk	-0.9721	1.2193	3.783e-01	0.03467	4.127	0.4253
abf\$edad	17.3639	2568.7337	3.476e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$opp_time, y = abf\$idx.bh)

	Y
x	0 1
	0 16 18
	1 1 1

Crude OR : 0.8889
Crude PPV : 0.5 NPV : 0.4706

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.112	6.347e-08	0.00000	Inf	0.9945
x	-0.4851	1.554	6.156e-01	0.02928	12.944	0.7549
abf\$sexe	16.7693	2387.112	1.918e+07	0.00000	Inf	0.9944
abf\$smk	-1.0150	1.221	3.624e-01	0.03312	3.966	0.4057
abf\$edad	17.3087	2568.734	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$rhic_tm, y = abf\$idx.bh)

	Y
x	0 1
	0 6 9
	1 11 10

Crude OR : 0.6061
Crude PPV : 0.4762 NPV : 0.4

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-0.7875	0.7789	4.550e-01	0.09886	2.094	0.3120
abf\$sexe	17.2505	2387.1119	3.103e+07	0.00000	Inf	0.9942
abf\$smk	-1.4962	1.3235	2.240e-01	0.01674	2.998	0.2583
abf\$edad	17.3087	2568.7337	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$sil_time, y = abf\$idx.bh)

	Y
x	0 1
	0 7 13
	1 10 6

Crude OR : 0.3231
Crude PPV : 0.375 NPV : 0.35

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.1118	6.347e-08	0.00000	Inf	0.99446
x	-1.347	0.7457	2.601e-01	0.06030	1.122	0.07093
abf\$sexe	17.349	2387.1119	3.424e+07	0.00000	Inf	0.99420
abf\$smk	-1.263	1.2743	2.829e-01	0.02327	3.438	0.32174

abf\$edad 16.977 2568.7337 2.360e+07 0.00000 Inf 0.99473

GlmWithOr(x = abf\$spec_tm, y = abf\$idx.bh)

```
      Y
x      0  1
      0  3 10
      1 13  9
```

Crude OR : 0.2077
Crude PPV : 0.4091 NPV : 0.2308

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-15.5028	2387.1120	1.850e-07	0.00000	Inf	0.9948
x	-1.0699	0.8043	3.430e-01	0.07092	1.659	0.1834
abf\$sexe	16.4278	2387.1119	1.363e+07	0.00000	Inf	0.9945
abf\$smk	-0.6735	1.2554	5.099e-01	0.04354	5.971	0.5916
abf\$edad	16.2388	2568.7338	1.128e+07	0.00000	Inf	0.9950

GlmWithOr(x = abf\$tr_es_tm, y = abf\$idx.bh)

```
      Y
x      0  1
      0 13 17
      1  4  2
```

Crude OR : 0.3824
Crude PPV : 0.3333 NPV : 0.4333

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.112	6.347e-08	0.00000	Inf	0.9945
x	-1.194	0.975	3.029e-01	0.04481	2.048	0.2207
abf\$sexe	16.969	2387.112	2.342e+07	0.00000	Inf	0.9943
abf\$smk	-1.215	1.232	2.968e-01	0.02651	3.322	0.3243
abf\$edad	17.309	2568.734	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$tr_ne_tm, y = abf\$idx.bh)

```
      Y
x      0  1
      0  6 10
      1 11  9
```

Crude OR : 0.4909
Crude PPV : 0.45 NPV : 0.375

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.112	6.347e-08	0.00000	Inf	0.9945
x	-0.997	0.777	3.690e-01	0.08046	1.692	0.1994
abf\$sexe	17.361	2387.112	3.467e+07	0.00000	Inf	0.9942
abf\$smk	-1.607	1.318	2.005e-01	0.01514	2.655	0.2228
abf\$edad	17.309	2568.734	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$tr_pe_tm, y = abf\$idx.bh)

```
      Y
x      0  1
```

```

0 5 13
1 12 6

```

```

Crude OR : 0.1923
Crude PPV : 0.3333    NPV : 0.2778

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-17.5727	3935.6819	2.335e-08	0.00000	Inf	0.99644
x	-1.7652	0.7633	1.712e-01	0.03834	0.764	0.02074
abf\$sexe	18.6732	3935.6820	1.287e+08	0.00000	Inf	0.99621
abf\$smk	-0.8003	1.3217	4.492e-01	0.03368	5.990	0.54481
abf\$edad	17.1901	4235.1255	2.921e+07	0.00000	Inf	0.99676

```
GlmWithOr(x = abf$tr_rhitm, y = abf$idx.bh)
```

```

      Y
x      0  1
      0  6  9
      1 11 10

```

```

Crude OR : 0.6061
Crude PPV : 0.4762    NPV : 0.4

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-0.7875	0.7789	4.550e-01	0.09886	2.094	0.3120
abf\$sexe	17.2505	2387.1119	3.103e+07	0.00000	Inf	0.9942
abf\$smk	-1.4962	1.3235	2.240e-01	0.01674	2.998	0.2583
abf\$edad	17.3087	2568.7337	3.289e+07	0.00000	Inf	0.9946

```
GlmWithOr(x = abf$tr_si_tm, y = abf$idx.bh)
```

```

      Y
x      0  1
      0 13 17
      1  4  2

```

```

Crude OR : 0.3824
Crude PPV : 0.3333    NPV : 0.4333

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.112	6.347e-08	0.00000	Inf	0.9945
x	-1.194	0.975	3.029e-01	0.04481	2.048	0.2207
abf\$sexe	16.969	2387.112	2.342e+07	0.00000	Inf	0.9943
abf\$smk	-1.215	1.232	2.968e-01	0.02651	3.322	0.3243
abf\$edad	17.309	2568.734	3.289e+07	0.00000	Inf	0.9946

```
GlmWithOr(x = abf$tr_ye_tm, y = abf$idx.bh)
```

```

      Y
x      0  1
      0  8 11
      1  9  8

```

```

Crude OR : 0.6465
Crude PPV : 0.4706    NPV : 0.4211

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.112	6.347e-08	0.00000	Inf	0.9945
x	-0.7309	0.737	4.815e-01	0.11355	2.042	0.3214
abf\$sexe	17.1126	2387.112	2.703e+07	0.00000	Inf	0.9943
abf\$smk	-1.3583	1.277	2.571e-01	0.02104	3.142	0.2875
abf\$edad	17.3087	2568.734	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$froid1, y = abf\$idx.bh)

	Y
x	0 1
	0 12 15
	1 5 4

Crude OR : 0.64
Crude PPV : 0.4444 NPV : 0.4444

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-0.5131	0.8191	5.986e-01	0.12021	2.981	0.5310
abf\$sexe	16.8610	2387.1119	2.102e+07	0.00000	Inf	0.9944
abf\$smk	-0.9610	1.2241	3.825e-01	0.03473	4.213	0.4324
abf\$edad	17.1630	2568.7337	2.843e+07	0.00000	Inf	0.9947

GlmWithOr(x = abf\$fumeel, y = abf\$idx.bh)

	Y
x	0 1
	0 16 17
	1 1 2

Crude OR : 1.882
Crude PPV : 0.6667 NPV : 0.4848

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.112	6.347e-08	0.00000	Inf	0.9945
x	0.6188	1.389	1.857e+00	0.12195	28.269	0.6560
abf\$sexe	16.7094	2387.112	1.806e+07	0.00000	Inf	0.9944
abf\$smk	-1.2116	1.345	2.977e-01	0.02132	4.158	0.3678
abf\$edad	17.5651	2568.734	4.250e+07	0.00000	Inf	0.9945

GlmWithOr(x = abf\$mites1, y = abf\$idx.bh)

	Y
x	0 1
	0 11 13
	1 6 6

Crude OR : 0.8462
Crude PPV : 0.5 NPV : 0.4583

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-0.5889	0.7514	5.549e-01	0.12725	2.420	0.4332
abf\$sexe	16.9673	2387.1119	2.338e+07	0.00000	Inf	0.9943
abf\$smk	-1.2130	1.2526	2.973e-01	0.02552	3.463	0.3329
abf\$edad	17.3087	2568.7337	3.289e+07	0.00000	Inf	0.9946

```
GlmWithOr(x = abf$molds1, y = abf$idx.bh)
```

```
      Y
x      0  1
  0 13 17
  1  4  2
```

```
Crude OR : 0.3824
Crude PPV : 0.3333   NPV : 0.4333
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.112	6.347e-08	0.00000	Inf	0.9945
x	-1.083	1.048	3.385e-01	0.04337	2.642	0.3015
abf\$sexe	16.910	2387.112	2.208e+07	0.00000	Inf	0.9943
abf\$smk	-1.156	1.229	3.148e-01	0.02832	3.499	0.3469
abf\$edad	17.309	2568.734	3.289e+07	0.00000	Inf	0.9946

```
GlmWithOr(x = abf$natopie2 - 1, y = abf$idx.bh)
```

```
      Y
x      0  1
  0  6 10
  1 11  9
```

```
Crude OR : 0.4909
Crude PPV : 0.45   NPV : 0.375
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-1.128	0.7847	3.238e-01	0.06956	1.507	0.1507
abf\$sexe	17.442	2387.1119	3.759e+07	0.00000	Inf	0.9942
abf\$smk	-1.688	1.3219	1.849e-01	0.01386	2.466	0.2016
abf\$edad	17.309	2568.7337	3.289e+07	0.00000	Inf	0.9946

```
GlmWithOr(x = abf$pets1, y = abf$idx.bh)
```

```
      Y
x      0  1
  0  8 13
  1  9  6
```

```
Crude OR : 0.4103
Crude PPV : 0.4   NPV : 0.3810
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-1.187	0.7578	3.051e-01	0.06908	1.347	0.1172
abf\$sexe	17.290	2387.1119	3.227e+07	0.00000	Inf	0.9942
abf\$smk	-1.535	1.2729	2.154e-01	0.01777	2.611	0.2278
abf\$edad	17.309	2568.7337	3.289e+07	0.00000	Inf	0.9946

```
GlmWithOr(x = abf$pollens1, y = abf$idx.bh)
```

```
      Y
x      0  1
  0  9 14
```

1 8 5

Crude OR : 0.4018
Crude PPV : 0.3846 NPV : 0.3913

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-15.568	2387.112	1.734e-07	0.00000	Inf	0.9948
x	-1.005	0.778	3.660e-01	0.07966	1.682	0.1964
abf\$sexe	16.096	2387.112	9.783e+06	0.00000	Inf	0.9946
abf\$smk	-1.347	1.252	2.600e-01	0.02236	3.023	0.2819
abf\$edad	17.309	2568.734	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$toux1, y = abf\$idx.bh)

	Y
x	0 1
	0 16 19
	1 1 0

Crude OR : 0
Crude PPV : 0 NPV : 0.4571

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-17.573	3935.682	2.335e-08	0.00000	Inf	0.9964
x	-17.716	4240.880	2.023e-08	0.00000	Inf	0.9967
abf\$sexe	17.800	3935.682	5.375e+07	0.00000	Inf	0.9964
abf\$smk	-1.046	1.219	3.515e-01	0.03223	3.833	0.3911
abf\$edad	18.309	4235.125	8.941e+07	0.00000	Inf	0.9966

GlmWithOr(x = abf\$SyRes, y = abf\$idx.bh)

	Y
x	0 1
	0 9 14
	1 8 5

Crude OR : 0.4018
Crude PPV : 0.3846 NPV : 0.3913

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.573	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-1.116	0.7568	3.277e-01	0.07436	1.444	0.1404
abf\$sexe	17.143	2387.1119	2.786e+07	0.00000	Inf	0.9943
abf\$smk	-1.101	1.2515	3.324e-01	0.02860	3.863	0.3788
abf\$edad	17.022	2568.7337	2.468e+07	0.00000	Inf	0.9947

GlmWithOr(x = abf\$SyResTra, y = abf\$idx.bh)

	Y
x	0 1
	0 12 17
	1 4 2

Crude OR : 0.3529
Crude PPV : 0.3333 NPV : 0.4138

	coefi	s.d.coe	or	lcl	ucl	p
--	-------	---------	----	-----	-----	---

(Intercept)	-16.573	2387.112	6.347e-08	0.00000	Inf	0.9945
x	-1.321	0.982	2.670e-01	0.03895	1.829	0.1787
abf\$sexe	17.096	2387.112	2.658e+07	0.00000	Inf	0.9943
abf\$smk	-1.341	1.238	2.615e-01	0.02311	2.959	0.2786
abf\$edad	17.309	2568.734	3.289e+07	0.00000	Inf	0.9946

GlmWithOr(x = abf\$SyResFin, y = abf\$idx.bh)

	Y	
x	0	1
	0	9 13
	1	7 6

Crude OR : 0.5934
Crude PPV : 0.4615 NPV : 0.4091

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-16.5727	2387.1118	6.347e-08	0.00000	Inf	0.9945
x	-0.5027	0.7365	6.049e-01	0.14281	2.562	0.4949
abf\$sexe	17.0221	2387.1119	2.469e+07	0.00000	Inf	0.9943
abf\$smk	-1.1248	1.2302	3.247e-01	0.02913	3.620	0.3605
abf\$edad	17.1657	2568.7337	2.851e+07	0.00000	Inf	0.9947

Referent : 162 Incident : 27

GlmWithOr(x = abf\$asthmemd, y = abf\$idx.bh)

	Y	
x	0	1
	0	153 24
	1	9 3

Crude OR : 2.125
Crude PPV : 0.25 NPV : 0.8644

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.9722	0.5590	0.1391	0.04652	0.4162	0.0004188
x	0.9050	0.6412	2.4720	0.70341	8.6871	0.1581478
abf\$sexe	0.3045	0.5977	1.3559	0.42021	4.3752	0.6104668
abf\$smk	-0.0471	0.5540	0.9540	0.32212	2.8254	0.9322412
abf\$edad	-0.7322	0.7500	0.4809	0.11057	2.0911	0.3289117

GlmWithOr(x = abf\$cp20a8, y = abf\$idx.bh)

	Y	
x	0	1
	0	146 17
	1	9 8

Crude OR : 7.634
Crude PPV : 0.4706 NPV : 0.8957

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.06290	0.5783	0.1271	0.04092	0.3947	3.605e-04
x	2.21087	0.5441	9.1237	3.14099	26.5017	4.831e-05
abf\$sexe	0.04976	0.6321	1.0510	0.30450	3.6277	9.373e-01
abf\$smk	-0.36739	0.6192	0.6925	0.20578	2.3307	5.529e-01

abf\$edad -0.51742 0.7975 0.5961 0.12487 2.8452 5.165e-01

GlmWithOr(x = abf\$cp20a16, y = abf\$idx.bh)

```
      Y
x      0  1
  0 133  5
  1  22 20
```

Crude OR : 24.18
Crude PPV : 0.4762 NPV : 0.9638

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.58746	0.6728	0.07521	0.02012	0.2812	1.202e-04
x	3.21778	0.5508	24.97257	8.48488	73.4989	5.148e-09
abf\$sexe	-0.65055	0.7440	0.52176	0.12140	2.2425	3.819e-01
abf\$smk	-0.04796	0.6608	0.95318	0.26105	3.4803	9.421e-01
abf\$edad	-0.14636	0.9065	0.86385	0.14616	5.1057	8.717e-01

GlmWithOr(x = abf\$cp20a32, y = abf\$idx.bh)

```
      Y
x      0  1
  0 119  3
  1  36 22
```

Crude OR : 24.24
Crude PPV : 0.3793 NPV : 0.9754

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-3.0086	0.7550	0.04936	0.01124	0.2168	6.753e-05
x	3.3516	0.6433	28.54772	8.09077	100.7286	1.889e-07
abf\$sexe	-0.6681	0.7638	0.51266	0.11473	2.2908	3.817e-01
abf\$smk	-0.2953	0.6340	0.74434	0.21483	2.5789	6.414e-01
abf\$edad	-0.2317	0.8790	0.79319	0.14163	4.4420	7.921e-01

GlmWithOr(x = abf\$an_rhin1, y = abf\$idx.bh)

```
      Y
x      0  1
  0 125 10
  1  37 17
```

Crude OR : 5.743
Crude PPV : 0.3148 NPV : 0.926

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.49255	0.6164	0.0827	0.02471	0.2768	5.258e-05
x	1.78572	0.4363	5.9639	2.53588	14.0258	4.265e-05
abf\$sexe	0.12294	0.6243	1.1308	0.33262	3.8444	8.439e-01
abf\$smk	0.08193	0.5792	1.0854	0.34882	3.3773	8.875e-01
abf\$edad	-0.99172	0.7727	0.3709	0.08157	1.6868	1.994e-01

GlmWithOr(x = abf\$an_brcol, y = abf\$idx.bh)

```
      Y
x      0  1
```

```

0 158 22
1   4  5

```

```

Crude OR : 8.977
Crude PPV : 0.5556   NPV : 0.8778

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.9767	0.5619	0.1385	0.04605	0.4167	0.0004353
x	2.3290	0.7124	10.2672	2.54149	41.4781	0.0010780
abf\$sexe	0.2090	0.6053	1.2324	0.37628	4.0363	0.7299301
abf\$smk	-0.1141	0.5812	0.8922	0.28561	2.7870	0.8443550
abf\$edad	-0.9242	0.8000	0.3968	0.08274	1.9034	0.2479480

```
GlmWithOr(x = abf$asthfam, y = abf$idx.bh)
```

```

      Y
x      0  1
0 134  18
1  28   9

```

```

Crude OR : 2.393
Crude PPV : 0.2432   NPV : 0.8816

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0446	0.5642	0.1294	0.04283	0.3911	0.0002904
x	0.8467	0.4549	2.3320	0.95604	5.6880	0.0627219
abf\$sexe	0.1962	0.6053	1.2168	0.37151	3.9853	0.7458249
abf\$smk	0.1075	0.5576	1.1135	0.37328	3.3218	0.8470676
abf\$edad	-0.5999	0.7535	0.5489	0.12535	2.4034	0.4259444

```
GlmWithOr(x = abf$asthmere, y = abf$idx.bh)
```

```

      Y
x      0  1
0 155  26
1   7   1

```

```

Crude OR : 0.8516
Crude PPV : 0.125   NPV : 0.8564

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.923027	0.5565	0.1462	0.0491	0.4351	0.0005497
x	0.125003	0.9758	1.1332	0.1674	7.6724	0.8980723
abf\$sexe	0.328466	0.5961	1.3888	0.4317	4.4677	0.5816382
abf\$smk	-0.008797	0.5486	0.9912	0.3382	2.9049	0.9872061
abf\$edad	-0.693659	0.7472	0.4997	0.1155	2.1617	0.3532474

```
GlmWithOr(x = abf$asthpere, y = abf$idx.bh)
```

```

      Y
x      0  1
0 156  24
1   6   3

```

```

Crude OR : 3.25
Crude PPV : 0.3333   NPV : 0.8667

```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.92543	0.5552	0.1458	0.04911	0.4329	0.0005246
x	1.11707	0.7085	3.0559	0.76215	12.2527	0.1148830
abf\$sexe	0.22631	0.6020	1.2540	0.38533	4.0808	0.7069850
abf\$smk	0.01278	0.5526	1.0129	0.34289	2.9919	0.9815508
abf\$edad	-0.60429	0.7497	0.5465	0.12571	2.3754	0.4202426

GlmWithOr(x = 2 - abf\$cig1, y = abf\$idx.bh)

	Y
x	0 1
	0 117 19
	1 45 8

Crude OR : 1.095
Crude PPV : 0.1509 NPV : 0.8603

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0358	0.5758	0.1306	0.04224	0.4037	0.0004071
x	0.4905	0.5460	1.6332	0.56009	4.7623	0.3689910
abf\$sexe	0.3659	0.5992	1.4418	0.44551	4.6659	0.5414613
abf\$smk	-0.4002	0.6941	0.6702	0.17195	2.6121	0.5642264
abf\$edad	-0.7376	0.7482	0.4783	0.11035	2.0729	0.3242568

GlmWithOr(x = 2 - abf\$cigact1, y = abf\$idx.bh)

	Y
x	0 1
	0 25 5
	1 21 3

Crude OR : 0.7143
Crude PPV : 0.125 NPV : 0.8333

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.1584	0.9940	0.3140	0.04475	2.203	0.2439
x	-0.3911	0.7404	0.6763	0.15846	2.887	0.5974
abf\$sexe	-0.1076	1.0070	0.8980	0.12477	6.463	0.9149
abf\$smk	-0.1992	0.7240	0.8194	0.19827	3.386	0.7832
abf\$edad	-0.3455	1.0056	0.7078	0.09862	5.080	0.7311

GlmWithOr(x = abf\$ns_rhin1, y = abf\$idx.bh)

	Y
x	0 1
	0 94 9
	1 68 18

Crude OR : 2.765
Crude PPV : 0.2093 NPV : 0.9126

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.39417	0.6124	0.09125	0.02747	0.3031	9.257e-05
x	1.07205	0.4343	2.92136	1.24706	6.8435	1.357e-02
abf\$sexe	0.22571	0.6051	1.25321	0.38279	4.1029	7.091e-01
abf\$smk	-0.04478	0.5561	0.95621	0.32150	2.8440	9.358e-01
abf\$edad	-0.94082	0.7573	0.39031	0.08847	1.7220	2.141e-01

```
GlmWithOr(x = abf$po_brcol, y = abf$idx.bh)
```

```
      Y
x      0      1
  0 158    25
  1   4     2
```

```
Crude OR : 3.16
Crude PPV : 0.3333    NPV : 0.8634
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.01936	0.5666	0.1327	0.04373	0.4030	0.0003648
x	1.38309	0.8208	3.9872	0.79796	19.9229	0.0919880
abf\$sexe	0.35146	0.6030	1.4211	0.43591	4.6332	0.5599663
abf\$smk	0.07952	0.5537	1.0828	0.36579	3.2051	0.8858036
abf\$edad	-0.76865	0.7561	0.4636	0.10533	2.0407	0.3093575

```
GlmWithOr(x = abf$po_rhin1, y = abf$idx.bh)
```

```
      Y
x      0      1
  0 128    16
  1  34    11
```

```
Crude OR : 2.588
Crude PPV : 0.2444    NPV : 0.8889
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.23218	0.5848	0.1073	0.03410	0.3376	0.0001351
x	1.06389	0.4301	2.8976	1.24714	6.7324	0.0133828
abf\$sexe	0.33104	0.6054	1.3924	0.42505	4.5614	0.5845219
abf\$smk	0.01256	0.5596	1.0126	0.33814	3.0326	0.9820951
abf\$edad	-0.90696	0.7625	0.4038	0.09058	1.7996	0.2342842

```
GlmWithOr(x = abf$pvemsp, y = abf$idx.bh)
```

```
      Y
x      0      1
  0 156    25
  1   1     1
```

```
Crude OR : 6.24
Crude PPV : 0.5    NPV : 0.8619
```

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.98901	0.5753	0.1368	0.04431	0.4226	0.000546
x	1.39689	1.5485	4.0426	0.19433	84.0985	0.367024
abf\$sexe	0.34190	0.6148	1.4076	0.42183	4.6972	0.578153
abf\$smk	0.02819	0.5521	1.0286	0.34860	3.0350	0.959273
abf\$edad	-0.52008	0.7540	0.5945	0.13561	2.6060	0.490371

```
GlmWithOr(x = abf$eib_time, y = abf$idx.bh)
```

```
      Y
x      0      1
  0 122     9
```

1 40 18

Crude OR : 6.1
Crude PPV : 0.3103 NPV : 0.9313

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.5696	0.6260	0.07656	0.02245	0.2611	4.043e-05
x	1.8589	0.4461	6.41640	2.67629	15.3833	3.093e-05
abf\$sexe	0.1348	0.6271	1.14434	0.33481	3.9113	8.298e-01
abf\$smk	-0.3333	0.5819	0.71652	0.22905	2.2414	5.667e-01
abf\$edad	-0.6196	0.7760	0.53817	0.11760	2.4628	4.246e-01

GlmWithOr(x = abf\$ess_time, y = abf\$idx.bh)

	Y
x	0 1
0	142 16
1	20 11

Crude OR : 4.881
Crude PPV : 0.3548 NPV : 0.8987

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.06921	0.5688	0.1263	0.04142	0.3851	0.0002751
x	1.50847	0.4552	4.5198	1.85200	11.0306	0.0009205
abf\$sexe	0.09108	0.6118	1.0954	0.33019	3.6337	0.8816608
abf\$smk	-0.11569	0.5724	0.8908	0.29009	2.7351	0.8398262
abf\$edad	-0.72309	0.7657	0.4852	0.10819	2.1765	0.3450046

GlmWithOr(x = abf\$opp_time, y = abf\$idx.bh)

	Y
x	0 1
0	157 21
1	5 6

Crude OR : 8.971
Crude PPV : 0.5455 NPV : 0.882

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.3367	0.6206	0.09665	0.02864	0.3262	0.0001665
x	2.6559	0.7040	14.23775	3.58278	56.5799	0.0001615
abf\$sexe	0.5928	0.6420	1.80914	0.51405	6.3671	0.3557748
abf\$smk	-0.3987	0.6129	0.67119	0.20192	2.2311	0.5153370
abf\$edad	-0.8966	0.8005	0.40796	0.08497	1.9587	0.2626692

GlmWithOr(x = abf\$rhic_tm, y = abf\$idx.bh)

	Y
x	0 1
0	123 15
1	39 12

Crude OR : 2.523
Crude PPV : 0.2353 NPV : 0.8913

	coefi	s.d.coe	or	lcl	ucl	p
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(Intercept)	-2.2910	0.5969	0.1012	0.0314	0.3259	0.0001241
x	0.9484	0.4199	2.5816	1.1337	5.8791	0.0239013
abf\$sexe	0.3660	0.6033	1.4420	0.4420	4.7039	0.5440407
abf\$smk	-0.1035	0.5580	0.9016	0.3021	2.6915	0.8527984
abf\$edad	-0.5116	0.7552	0.5995	0.1364	2.6343	0.4981341

GlmWithOr(x = abf\$sil_time, y = abf\$idx.bh)

	Y	
x	0	1
0	133	13
1	29	14

Crude OR : 4.939
Crude PPV : 0.3256 NPV : 0.911

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.47212	0.6113	0.0844	0.02547	0.2797	5.249e-05
x	1.70951	0.4296	5.5263	2.38075	12.8277	6.925e-05
abf\$sexe	0.25363	0.6209	1.2887	0.38163	4.3518	6.829e-01
abf\$smk	-0.09009	0.5806	0.9139	0.29288	2.8515	8.767e-01
abf\$edad	-0.46179	0.7790	0.6302	0.13688	2.9010	5.533e-01

GlmWithOr(x = abf\$spec_tm, y = abf\$idx.bh)

	Y	
x	0	1
0	143	22
1	19	5

Crude OR : 1.711
Crude PPV : 0.2083 NPV : 0.8667

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.10266	0.5854	0.1221	0.03877	0.3847	0.0003286
x	0.65240	0.5362	1.9202	0.67136	5.4918	0.2236768
abf\$sexe	0.42245	0.6062	1.5257	0.46499	5.0059	0.4858981
abf\$smk	-0.04042	0.5529	0.9604	0.32495	2.8384	0.9417162
abf\$edad	-0.61301	0.7502	0.5417	0.12452	2.3567	0.4138331

GlmWithOr(x = abf\$tr_es_tm, y = abf\$idx.bh)

	Y	
x	0	1
0	160	25
1	2	2

Crude OR : 6.4
Crude PPV : 0.5 NPV : 0.8649

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.07821	0.5819	0.1252	0.04001	0.3915	0.0003548
x	1.99622	1.0339	7.3612	0.97023	55.8495	0.0535162
abf\$sexe	0.45563	0.6170	1.5772	0.47065	5.2852	0.4602292
abf\$smk	-0.09524	0.5650	0.9092	0.30043	2.7512	0.8661294
abf\$edad	-0.74124	0.7541	0.4765	0.10869	2.0891	0.3256187

GlmWithOr(x = abf\$str_ne_tm, y = abf\$idx.bh)

	Y	
x	0	1
0	128	16
1	34	11

Crude OR : 2.588
Crude PPV : 0.2444 NPV : 0.8889

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.3056	0.5986	0.0997	0.03084	0.3223	0.0001175
x	0.9945	0.4285	2.7034	1.16728	6.2612	0.0202904
abf\$sexe	0.4216	0.6058	1.5244	0.46502	4.9972	0.4864362
abf\$smk	-0.1608	0.5618	0.8514	0.28311	2.5607	0.7746737
abf\$edad	-0.5469	0.7539	0.5788	0.13205	2.5367	0.4682585

GlmWithOr(x = abf\$str_pe_tm, y = abf\$idx.bh)

	Y	
x	0	1
0	133	21
1	29	6

Crude OR : 1.310
Crude PPV : 0.1714 NPV : 0.8636

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.944924	0.5606	0.1430	0.04766	0.4291	0.0005216
x	0.183588	0.5020	1.2015	0.44923	3.2136	0.7145542
abf\$sexe	0.316555	0.5973	1.3724	0.42569	4.4245	0.5961019
abf\$smk	-0.005248	0.5489	0.9948	0.33920	2.9173	0.9923717
abf\$edad	-0.684131	0.7468	0.5045	0.11674	2.1805	0.3596152

GlmWithOr(x = abf\$str_rhitm, y = abf\$idx.bh)

	Y	
x	0	1
0	138	19
1	24	8

Crude OR : 2.421
Crude PPV : 0.25 NPV : 0.879

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0930	0.5732	0.1233	0.0401	0.3792	0.0002605
x	0.8384	0.4789	2.3127	0.9047	5.9123	0.0799881
abf\$sexe	0.3444	0.5994	1.4111	0.4359	4.5682	0.5655480
abf\$smk	-0.1578	0.5620	0.8540	0.2839	2.5694	0.7788774
abf\$edad	-0.5903	0.7502	0.5542	0.1274	2.4109	0.4313436

GlmWithOr(x = abf\$str_si_tm, y = abf\$idx.bh)

	Y	
x	0	1
0	160	27
1	2	0

Crude OR : 0
Crude PPV : 0 NPV : 0.8556

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.88399	0.5563	1.520e-01	0.05108	0.4522	0.0007075
x	-13.92838	1001.1911	8.933e-07	0.00000	Inf	0.9889003
abf\$sexe	0.31063	0.5971	1.364e+00	0.42334	4.3966	0.6028741
abf\$smk	-0.02396	0.5486	9.763e-01	0.33317	2.8611	0.9651669
abf\$edad	-0.71299	0.7457	4.902e-01	0.11366	2.1139	0.3389924

GlmWithOr(x = abf\$str_ye_tm, y = abf\$idx.bh)

	Y	
x	0	1
0	147	20
1	15	7

Crude OR : 3.43
Crude PPV : 0.3182 NPV : 0.8802

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.0375	0.5650	0.1303	0.04307	0.3945	0.0003104
x	1.1786	0.5115	3.2497	1.19259	8.8551	0.0212040
abf\$sexe	0.2586	0.6029	1.2951	0.39726	4.2220	0.6680221
abf\$smk	-0.1385	0.5652	0.8706	0.28759	2.6356	0.8063365
abf\$edad	-0.6246	0.7512	0.5355	0.12282	2.3343	0.4056929

GlmWithOr(x = abf\$froid1, y = abf\$idx.bh)

	Y	
x	0	1
0	142	17
1	20	10

Crude OR : 4.176
Crude PPV : 0.3333 NPV : 0.893

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.9967	0.5619	0.1358	0.04514	0.4085	0.0003805
x	1.5076	0.4672	4.5159	1.80756	11.2820	0.0012503
abf\$sexe	0.0467	0.6138	1.0478	0.31461	3.4897	0.9393619
abf\$smk	-0.2214	0.5768	0.8014	0.25871	2.4822	0.7010621
abf\$edad	-0.7567	0.7651	0.4692	0.10474	2.1020	0.3226689

GlmWithOr(x = abf\$fumeel, y = abf\$idx.bh)

	Y	
x	0	1
0	156	23
1	6	4

Crude OR : 4.522
Crude PPV : 0.4 NPV : 0.8715

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.15836	0.5877	0.1155	0.03651	0.3655	0.0002401
x	2.08918	0.7197	8.0783	1.97108	33.1081	0.0036981

abf\$sexe	0.45428	0.6219	1.5750	0.46550	5.3292	0.4651064
abf\$smk	-0.04027	0.5665	0.9605	0.31644	2.9156	0.9433333
abf\$edad	-1.06166	0.8097	0.3459	0.07075	1.6909	0.1897842

GlmWithOr(x = abf\$mites1, y = abf\$idx.bh)

	Y	
x	0	1
0	104	17
1	57	10

Crude OR : 1.073
Crude PPV : 0.1493 NPV : 0.8595

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.95190	0.5800	0.1420	0.04556	0.4426	0.0007652
x	0.09114	0.4271	1.0954	0.47425	2.5302	0.8310280
abf\$sexe	0.34321	0.5963	1.4095	0.43797	4.5359	0.5649388
abf\$smk	-0.02254	0.5489	0.9777	0.33343	2.8669	0.9672368
abf\$edad	-0.69026	0.7505	0.5014	0.11519	2.1829	0.3576942

GlmWithOr(x = abf\$molds1, y = abf\$idx.bh)

	Y	
x	0	1
0	142	23
1	19	4

Crude OR : 1.300
Crude PPV : 0.1739 NPV : 0.8606

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.97324	0.5737	0.1390	0.04515	0.4279	0.0005832
x	0.25821	0.6077	1.2946	0.39345	4.2598	0.6708970
abf\$sexe	0.36853	0.6005	1.4456	0.44559	4.6899	0.5393807
abf\$smk	-0.01762	0.5485	0.9825	0.33532	2.8790	0.9743683
abf\$edad	-0.70303	0.7458	0.4951	0.11478	2.1354	0.3458434

GlmWithOr(x = abf\$natopie2 - 1, y = abf\$idx.bh)

	Y	
x	0	1
0	99	12
1	61	15

Crude OR : 2.029
Crude PPV : 0.1974 NPV : 0.8919

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.25141	0.5986	0.1053	0.03256	0.3402	0.0001690
x	0.74622	0.4106	2.1090	0.94318	4.7159	0.0691421
abf\$sexe	0.35799	0.6003	1.4304	0.44102	4.6397	0.5509753
abf\$smk	-0.08257	0.5545	0.9207	0.31057	2.7297	0.8816212
abf\$edad	-0.71258	0.7491	0.4904	0.11294	2.1291	0.3414987

GlmWithOr(x = abf\$pets1, y = abf\$idx.bh)

```

      Y
x      0      1
  0 139   13
  1  21   14

```

Crude OR : 7.128
 Crude PPV : 0.4 NPV : 0.9145

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.24021	0.5913	0.1064	0.03340	0.3391	1.514e-04
x	2.06698	0.4590	7.9010	3.21322	19.4276	6.707e-06
abf\$sexe	0.08995	0.6272	1.0941	0.32005	3.7403	8.860e-01
abf\$smk	-0.35356	0.5987	0.7022	0.21717	2.2704	5.549e-01
abf\$edad	-1.00910	0.7920	0.3645	0.07720	1.7215	2.026e-01

GlmWithOr(x = abf\$pollens1, y = abf\$idx.bh)

```

      Y
x      0      1
  0 111   11
  1  50   16

```

Crude OR : 3.229
 Crude PPV : 0.2424 NPV : 0.9098

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.5259	0.6205	0.07999	0.02371	0.2699	4.688e-05
x	1.3231	0.4225	3.75520	1.64069	8.5949	1.737e-03
abf\$sexe	0.3517	0.6101	1.42143	0.42998	4.6990	5.643e-01
abf\$smk	0.0877	0.5653	1.09165	0.36051	3.3056	8.767e-01
abf\$edad	-0.8483	0.7600	0.42812	0.09652	1.8990	2.643e-01

GlmWithOr(x = abf\$toux1, y = abf\$idx.bh)

```

      Y
x      0      1
  0 159   24
  1   3    3

```

Crude OR : 6.625
 Crude PPV : 0.5 NPV : 0.8689

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.9298	0.5556	0.1452	0.04886	0.4313	0.0005139
x	1.8986	0.7829	6.6769	1.43944	30.9708	0.0152980
abf\$sexe	0.1750	0.6033	1.1912	0.36514	3.8862	0.7717969
abf\$smk	0.1502	0.5567	1.1620	0.39025	3.4602	0.7873505
abf\$edad	-0.7319	0.7602	0.4810	0.10842	2.1340	0.3356463

GlmWithOr(x = abf\$SyRes, y = abf\$idx.bh)

```

      Y
x      0      1
  0 133   15
  1  29   12

```

Crude OR : 3.669

Crude PPV : 0.2927 NPV : 0.8986

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.3658	0.6008	0.09388	0.02892	0.3047	0.0000822
x	1.3680	0.4280	3.92761	1.69736	9.0883	0.0013936
abf\$sexe	0.3719	0.6081	1.45054	0.44044	4.7772	0.5407994
abf\$smk	-0.1141	0.5641	0.89221	0.29535	2.6953	0.8397590
abf\$edad	-0.8010	0.7633	0.44889	0.10055	2.0039	0.2940208

GlmWithOr(x = abf\$SyResTra, y = abf\$idx.bh)

	Y	
x	0	1
0	159	27
1	3	0

Crude OR : 0
Crude PPV : 0 NPV : 0.8548

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-1.84789	0.5578	1.576e-01	0.05281	0.4701	0.0009227
x	-14.86168	1376.8769	3.513e-07	0.00000	Inf	0.9913880
abf\$sexe	0.27533	0.5980	1.317e+00	0.40787	4.2524	0.6452396
abf\$smk	-0.02672	0.5484	9.736e-01	0.33233	2.8525	0.9611373
abf\$edad	-0.71660	0.7456	4.884e-01	0.11328	2.1058	0.3364827

GlmWithOr(x = abf\$SyResFin, y = abf\$idx.bh)

	Y	
x	0	1
0	142	15
1	20	12

Crude OR : 5.68
Crude PPV : 0.375 NPV : 0.9045

	coefi	s.d.coe	or	lcl	ucl	p
(Intercept)	-2.52546	0.6243	0.08002	0.02354	0.272	0.0000522
x	1.75855	0.4456	5.80402	2.42331	13.901	0.0000794
abf\$sexe	0.48134	0.6221	1.61824	0.47806	5.478	0.4391126
abf\$smk	-0.04981	0.5715	0.95141	0.31039	2.916	0.9305511
abf\$edad	-0.69750	0.7704	0.49783	0.10998	2.253	0.3652528