A Study of the Abuse of Alcoholic Beverage among College Students by using the Adolescent Alcohol Involvement Scale (AAIS) Part 2

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ABSTRACT

We have reported already the above mentioned theme Part 1 in Jpn. Alcohol&Drug Dependence.31,264-276(1996). In that paper we investigated the average score of AAIS of each response to each question of questionnare, in this paper we investigated the distribution of percentage of each response according to AAIS distinction to each question of questionnare.

[Method] Subject: 288 college student(74 boys, 213 girls and unknown 1), Survey time: June 1995. AAIS, which was developed for screening of alcohol abuse in youth, is compose 14 questions and the response to each question is scored 0 to 8 and the highest total is 79. The score of 42 or above is defined as indicating alcohol misuse interfering with psychological function, social relation, or family living.

[Results] The distribution curve of percentage of each response according to AAIS distinction in the case of sex distinction have a tendency to distribute to a higher side of AAIS score in the case of boys than girls. The distribution curves of the lodging house students and one's own house students have a same type as the type in the case of sex distinction. The distribution curve of athletic club belonging students is higher side than that of students not belonging to club activity. The differences among the distribution curves of each response were clear in 6 questions among 14 questions in AAIS questionnare.

INTRODUCTION

Recently the several problem occured by increasing drinking in young men and there are many investigation of the actual drinking condition of college or university students and many measure to drinking of the students. We also have continued to investigate on the drinking of college students and recently we have investigated the above mentioned theme Part 1 and contributed to Jpn. Alcohol&Drug Dependence. 31,264-276(1996). In that paper we investigated the evaluation of the abuse of alcoholic beverage among college students by AAIS
and the relationship between the score of AAIS of each response and the choices of each question in the questionnaire, in this paper (Part 2) we investigated the distribution of percentage of each response according to AAIS distinction to the choices of each question in the questionnaire and the appropriateness of AAIS for the abuse of alcoholic beverage among college students.

METHOD

Subject: Junior students of our college, male 74, female 213 and unknown 1. Survey time: June 1995. AAIS(1), which was developed for screening of alcohol abuse in youth, is composed 14 questions and the response to each question is scored 0 to 8 and the highest total is 79. The score of 42 or above is defined as indicating alcohol misuse interfering with psychological function, social relation, or family living.

RESULTS AND DISCUSSIONS

Distribution of AAIS scores in boys and girls

As you can see in Fig. 1, the scores of AAIS of boys have a tendency to distribute to a higher side than those of girls and the average scores of AAIS are 30.7 in boys and 26.8 in girls respectively (significant difference, p<0.01).

Distribution of the percentage of answer to the choices of the question in the questionnaire of AAIS.

1. How often do you drink? (Q. 1)* * Question number of AAIS questionnaire

As you can see in Fig. 2, the curves of the percentages of answers to each choices of the question of AAIS questionnaire clearly migrated to the direction of high AAIS score according to the high frequency of drinking. Therefore, we can say that the oftener drinking is, the higher AAIS score is.

2. When did you have your last drink? (Q. 2)

As you can see in Fig. 3, the curves of the percentage of answers to each choices of the question of AAIS questionnaire also clearly migrated to the direction of high AAIS score according to the day which you have last drink get near to today. Therefore, we can say that the nearer the day is to the today, the higher AAIS score is.

3. I usually start to drink because: (Q. 3)

As you can see in Fig. 4, the answers (a) which I like the taste widely distribute from low value to high value of AAIS. The answers (d) which I feel nervous, tense, full of worries or problems
distribute to the direction of high score of AAIS, though small percentages. Therefore, we can say nearly that AAIS scores related to the cause of drinking.

4. What do you drink? (Q.4)
As you can see in Fig. 5, the curves of the percentage of answers to each choices of the question of AAIS questionnaire migrated to the direction of high AAIS score according to the strength of alcoholic beverage. Therefore, we can say that the stronger alcoholic beverage is, the higher AAIS score is.

5. How do you get your drink? (Q. 5)
As you can see in Fig. 6, the curves of the percentage of answers to each choices of the question of AAIS questionnaire migrated to the direction of high AAIS score according to the honesty of the subject. Therefore, we can say that the honester the subject is, the higher AAIS score is.

6. When did you take your first drink? (Q. 6)
As you can see in Fig. 7, the curves of the percentages of answers to each choices of the question of AAIS questionnaire have tendency to migrate to the direction of high AAIS score according to the age which subjects first drink. Therefore, we can say that age which subjects drink first slightly affects AAIS score.

7. How much do you drink, when you do drink? (Q. 9)
As you can see in Fig. 8, the curves of the percentages of answers to each choices of the question of AAIS questionnaire clearly migrated to the direction of high AAIS score according to the volume of drinking. Therefore, we can say that the volume of drinking affects AAIS score.

8. What is the greatest effect drinking has had on your life? (Q.12)
As you can see in Fig. 9, the percentages of answers to each choices of the questions of AAIS questionnaire have tendency to migrate to the direction of higher AAIS score. Therefore, we can say that drinking effect fairly affects AAIS score.

9. How do you feel about your drinking? (Q.13)
As you can see in Fig. 10, the curves of percentages of answers to each choices of the question of AAIS questionnaire migrate to the direction of higher AAIS score. Therefore, we can say that the one's own feeling to subject's drinking affects AAIS score.
10. How do others see you? (Q. 14)
As you can see in Fig. 11, the curves of percentages of answers to each choices of the question of AAIS questionnaire migrate to the direction of higher AAIS score. Therefore, we can say that the other's feeling to subject's drinking affect AAIS score.

CONCLUSION

In this study we obtained following results.
1. The question numbers in which the effects on AAIS score can be seen.
   1, 2, 4, 9, 13
2. The question numbers in which the effects on AAIS score can be farily seen.
   3, 5, 6, 12,
3. The question numbers in which the effects on AAIS score cannot be seen.
   7, 8, 10,

We must continue to investigate the question numbers in which the effects on AAIS score cannot be seen to apply AAIS method for the abuse of college students drinking survey.

REFERENCES

APPENDIX

Adolescent Alcohol Involvement Scale (AAIS), and Scoring Instructions (1)

1. How often do you drink?
   a. never  b. once or twice a year  c. once or twice a month  d. every week
   e. several times a week  f. every day

2. When did you have your last drink?
   a. never drank  b. not for over a year  c. between 6 months and 1 year ago
   d. several weeks ago  e. last week  f. yesterday  g. today

3. I usually start to drink because:
   a. I like the taste  b. to be like my friends  c. to feel like an adult
   d. I feel nervous, tense, full of worries or problems  e. I feel sad, lonely, sorry for myself

4. What do you drink?
   a. wine  b. beer  c. mixed drinks  d. hard liquor
   e. a substitute for alcohol-paint, thinner, sterno, cough medicine, mouthwash, hair tonic, etc.

5. How do you get your drink?
   a. supervised by parents or relatives  b. from brothers or sisters
   c. from home without parents’ knowledge  d. from friends  e. buy it with false identification

6. When did you take your first drink?
   a. never  b. recently  c. after age 15  d. at ages 14 or 15  e. between ages 10-13
   f. before age 10

7. What time of day do you usually drink?

8. Why did you take your first drink?

9. How much do you drink, when you do drink?
   a. 1 drink  b. 2 drinks  c. 3-6 drinks  d. 6 or more drinks  e. until “high” or drunk

10. Whom do you drink with?

11. What is the greatest effect you have had from alcohol?
   a. none—no effect  b. has interfered with talking to someone  c. has prevented me from
      having a good time  d. has interfered with my school work  e. have lost friends because of
      drinking  f. has gotten me into trouble at home  g. was in a fight or destroyed property
      h. has resulted in an accident, an injury, arrest, or being punished at school for drinking

12. What is the greatest effect drinking has had on your life?
   a. no problem at all  b. I can control it and set limits on myself  c. I can control myself, but
      my friends easily influence me  d. I often feel bad about my drinking  e. I need help to
      control myself...f. I have had professional help to control my drinking

13. How do others see you?
   a. can't say, or a normal drinker for my age  b. when I drink I tend to neglect my family or
      friends  c. my family or friends advise me to control or cut down on my drinking  d. my
      family or friends tell me to get help for my drinking  e. my family or friends have already
      gone for help for my drinking

Scoring Instructions in this appendix was omitted because of lack of space permitted for me.