## 🗢 🍈 🔏 🚅 🖕 🔿 🍈 🕈 👘 👘 👘 🍈 😓 👘 🍈 🍩 🍈 A Study into Supporting Safe Driving and Active Life for the Elderly (2) Safe driving awareness and support after giving up driving

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Car accidents caused by elderly drivers with lowered cognitive function have started to draw attention in local communities. Early detection of individuals with lowered cognitive function has been implemented, and regulating driving by individuals with dementia is progressing. However, a psychological support system for these elderly drivers has not been proposed. Moreover, transportation support system for those who gave up driving is also essential.

## Purpose

Table1 Characteristics of the subjects (n=143)

| To identify safe driving awareness of the elderly and necessary support        |     |
|--|-----|
| after they give up driving.  |     |
| Matha I.   |     |
| Methods  | Age |
| The question pairs was distributed by the chairperson of the conject sitizans! |     |

The questionnaire was distributed by the chairperson of the senior citize club. Answering the questions was deemed as agreement to participate in study. A Chi-square test was used to test statistical significance.

The study was conducted after being approved by the Ethical Review Bo at the author's organization.

Among the 207 respondents in the first report, 143 elderly drivers, 101 men (70.6%) and 42 women (29.4%), were further analyzed, regard their frequency of driving, presence or absence of offenses and accidents, awareness of safe driving, and perceived support necessary after giving u driving (Table1).

|       |                           | Mean±SD or n (%) |                 |
|-------|---------------------------|------------------|-----------------|
|       |                           | Men<br>(n=101)   | Women<br>(n=42) |
|       | Age                       | 74.2±5.0         | 72.7±4.6        |
| ens'  | 65-74 year old            | 54(53.5)         | 33(78.6)        |
| n the | ≧75 year old              | 47(46.5)         | 9(21.4)         |
| bard  | Type of vehicle           |                  |                 |
| Jaiu  | car **                    | 99 (98.0)        | 28(66.7)        |
|       | motorcycle **             | 13(12.9)         | 17(40.5)        |
| ling  | agricultural machines     | 4(4.0)           | 0(0)            |
| ,     | Frequency of driving      |                  |                 |
| up    | almost everyday           | 75(78.1)         | 29(72.5)        |
|       | several times per<br>week | 20(20.8)         | 9(22.5)         |

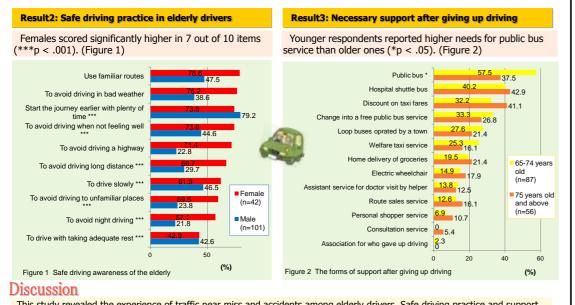
Results

## Result1: Circumstances of driving and intention of driving after returning driver's license (Table2)

|       |  | Mean±SD or n(%) |                  |  |
|-------|--|-----------------|------------------|--|
|       |  | Male<br>(n=101) | Female<br>(n=42) |  |
| Q1.   | Feeling danger while<br>driving  |                 |                  |  |
|       | Frequently   | 8(7.9)          | 1 (2.4)          |  |
|       | Sometimes  | 64(63.4)        | 25(59.5)         |  |
|       | Never  | 26(25.7)        | 14(33.3)         |  |
| Q2.   | Driving infraction<br>within the last one year                         |                 |                  |  |
|       | Presence   | 12(13)          | 1 (2.5)          |  |
| Q3–1. | Do you have an accident<br>65 years old and later ?                    |                 |                  |  |
|       | Yes  | 21 (21.6)       | 5(11.9)          |  |
|       | No   | 76(78.4)        | 34(87.2)         |  |
| Q3-2. | Are you driving after the accident?                                    |                 |                  |  |
|       | I'm still driving  | 20(20.8)        | 4(9.5)           |  |
|       | I refrain from driving   | 0               | 1                |  |
|       | I stopped driving  | 0               | 0                |  |
| Q5.   | What do you do after returning<br>your driver's license in the future? |                 |                  |  |
|       | I'll stop driving  | 84(91.3)        | 36(94.7)         |  |
|       | I'll drive   | 8(8.7)          | 2(5.3)           |  |

license and its background] license

26 (19 1%)



This study revealed the experience of traffic near miss and accidents among elderly drivers. Safe driving practice and support necessary after driving cessation were also examined, and found gender and age differences in practice and perceived support. These findings are useful for road safety education and development of the support system for those give up driving. In addition, return of driver's license due to aging and lowered cognitive function may lower self-esteem in the elderly, and may cause social withdrawal because of loss of their roles.

Therefore, developing and implementing support system to maintain independence after driving cessation is necessary.

