



Efficacy of Adrenaline Auto-Injector Diary

Taku Oishi¹⁾, Kouhei Hagino²⁾, Hajime Kuroiwa³⁾, Mikiya Fujieda¹⁾

1) Department of Pediatrics, Kochi Medical School, Kochi University

2) Department of pediatrics, Kochi Prefectural Hata Kenmin Hospital

3) Integrated Center for Advanced Medical Technologies, Kochi Medical School

Results

Fig.1 Flowchart of study

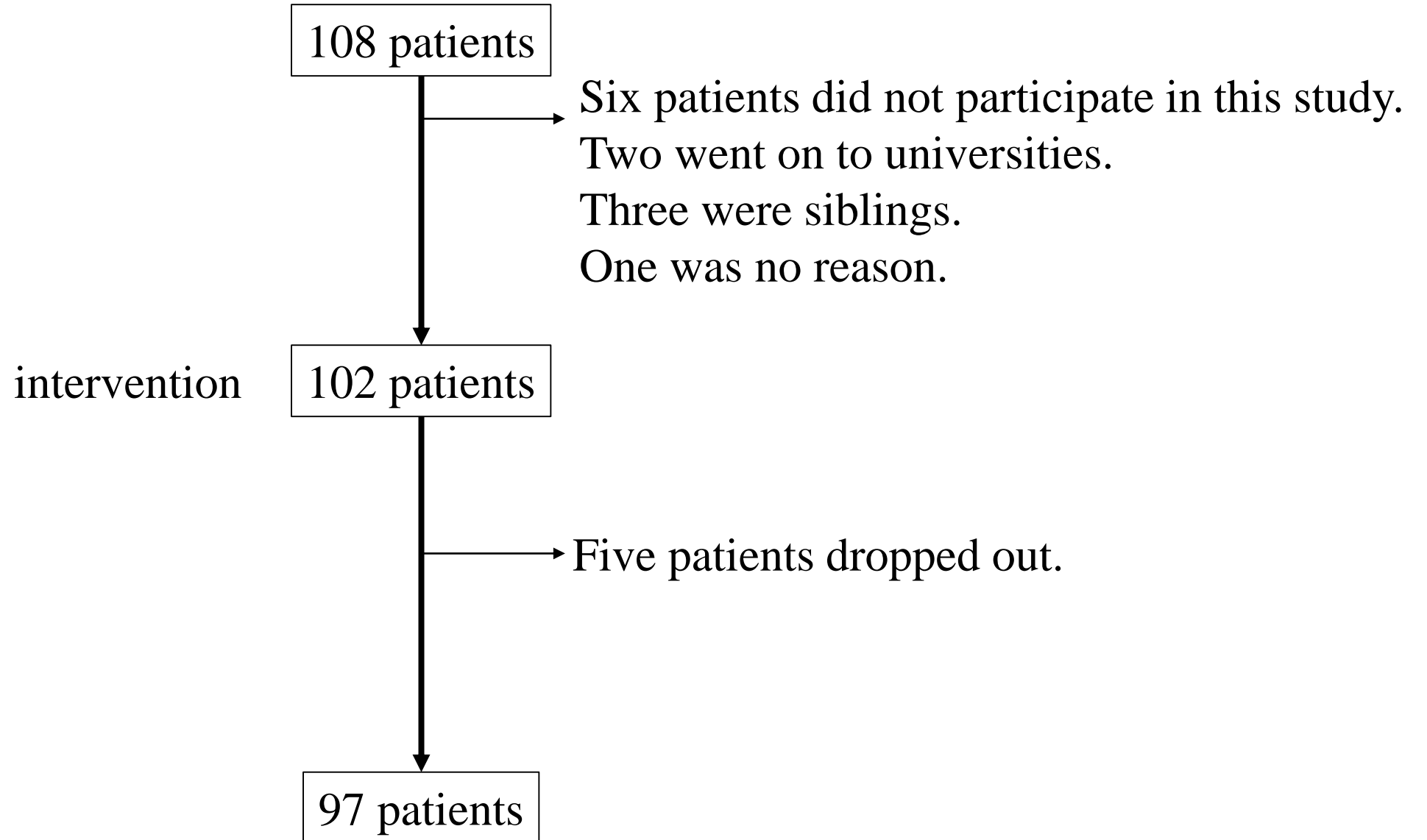


Table 1. Baseline Characteristics (N=102: K 100, H 2)

Age of patient (y), Median (IQR)	7.5 (5-10)
Past history of anaphylaxis	75
Experience of Use of AAI	5
History of prescribing AAI	
The first time	20
The second time	16
The third time	15
More than the third time	51
Other family member prescribed AAI	4
Family history of Anaphylaxis	17

The subjects of caregivers (N=93)

Age (y), Median (IQR)	38 (34-42)
Mother	84
Father	8
Grandmother	1

Table 2. Baseline pass rate and number of past prescription. (N=82)

Number of past prescription	once	twice	more than twice	sum
a) How to hold	56.30%	86.70%	86.30% **	
b) Removing cap	93.80%	93.30%	94.10%	
c) Correct site	62.50%	86.70%	86.30%	
a)+b)+c)	43.8%	73.3%	74.50% **	68.3%
d) Hold place for 5 seconds	68.80%	100% *	76.50%	
e) Massage	37.50%	66.70%	76.50% **	
a)+b)+c)+d)+e)	12.6%	46.7%	56.9%	46.3%

*p<0.05, once vs. twice; **p<0.05, once vs. more than twice

Table 3. Pass rate after using AAI diary. (N=97)

Number of prescription	once	twice	the third time	more than the third time	sum
a) How to hold	94.4%	100%	73.3%	100%	
b) Removing cap	94.4%	100%	86.7%	97.9%	
c) Correct site	83.3%	100%	93.3%	95.8%	
a)+b)+c)	83.3%	100%	66.7%	93.8%	88.7%
d) Hold place for 5 seconds	100%	100%	100%	97.9%	
e) Massage	83.3%	87.5%	100%	97.9%	
a)+b)+c)+d)+e)	77.8%	87.5%	66.7%	89.6%	83.5%

There were no significant difference between the first prescription and more than the second prescription.

Table 4. Pass rate after using AAI diary. (N=23)

Except cases of multiple prescription, and cases who could not be evaluated in one year, and cases in which the number of practice and latest practiced date were not confirmed on the calendar.

Practice number	1	2-6	7-12	>12	sum
Subjects	1	6	8	8	23
a) How to hold	100%	100%	100%	100%	
b) Removing cap	100%	100%	100%	100%	
c) Correct site	100%	100%	87.5%	100%	
a)+b)+c)	100%	100%	87.5%	100%	88.7%
d) Hold place for 5 seconds	100%	100%	100%	97.9%	
e) Massage	100%	83.3%	100%	87.5%	
a)+b)+c)+d)+e)	100%	83.3%	87.5%	87.5%	83.5%

There were no significant difference between practice number and pass rate.

Conclusion

The AAI diary was effective to sustain skill of how to use AAI .