

厚生労働科学研究費補助金難治性疾患等政策研究事業（難治性疾患政策研究事業）
小児期・移行期を含む包括的対応を要する希少難治性肝胆膵疾患の調査研究
分担報告書(2)

Factor analysis of congenital biliary atresia in 2017 & 1995-2017

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Abstract: To compare the situation of congenital biliary atresia in Japan between in 2017 & during 1995-2017, factor analysis was performed. The numerical data were extracted from the open data by Japanese Biliary Atresia Society (<https://jbas.net/>). The factor analysis was performed using SAS9.4EG7.2. Both of MSA (in 2017, during 1995-2017) were upper than 0.5. Varimax rotation and major factor method were selected for factor analysis. Disappearance of jaundice and cholangitis were selected as the clinical marker from some symptoms.

A. Aim of Research

The aim of this study is to compare the situation of congenital biliary atresia in Japan between in 2017 & during 1995-2017 using logistic regression analysis. (Ethical Consideration) The numerical data were extracted from the open data by Japanese Biliary Atresia Society(<https://jbas.net/>). These data do not include the individual information without no individual sheet and already

half-statistically treated.

This open data were free to the public since 1995.

B.Materials & Methods of Research

The numerical data were extracted from the open data by Japanese Biliary Atresia Society(<https://jbas.net/>). The factor analysis was performed using SAS9.4EG7.2 by Prof.T.Sawaguchi with the following conditions,

- 1) Numerical data belonged in 2017 or numerical data belonged during 1995-2017(2 or 1),
- 2) Varimax rotation and major factor method were selected for factor analysis.
- 3) Disappearance of jaundice and cholangitis were selected as the clinical marker from some symptoms.

C.Results

The results of SAS analysis were shown as the appendix of the end of this report. Both of MSA (in 2017, during 1995-2017) as the marker of validity were upper than 0.5.

In both in 2017 and during 1995-2017, each of jaundice and cholangitis were conted in the different area but the both of total distribution were the same area described with the first factor and the second factor from the figure of initial factor pattern.

D.E.Discussion and Conclusion

In 2017, the progression associated with the age of patients of congenital biliary atresia operation in Japan was shown with comparison than before.

The change of the occurrence of cholangitis(possibly guesses the decrease of cholangitis) could be suggested as the progress of pediatric surgery over than 20 years from the figure of initial factor pattern.

F.Research Presentation

論文発表

1. Toshiko Sawaguchi. Logistic regression analysis of congenital biliary atresia in Japan in 2017 & 1995-2017. 75S:S164.2020
2. Sawaguchi T*. Multi-level analysis of symptoms after exposure opened by JAPAN POISON INFORMATION CENTER-with multi-visional prospects within multi-level framework. Reviews on Environmental Health 2020-21 in print (after resubmission)
3. Sawaguchi T*, Okamaoto E: *The Data Management for High-risk Groups (including Abuse and DV) in Mother-

Child and Pediatric Healthcare and the Study of Related Issues.IMJ 26(6)1-3 2019

4. Fukuchi T, Sawaguchi T *,Ikeda D,Kawahara K,etal: Lifetime Administrative Prospects for Emergency Survival Rate after Traffic accidents The IMJ. 25(4) 2020

学会発表

1. Sawaguchi T: Abroad vocabulary survey of medical safety training and its skill. 89th Annual Congress of Japanese Society of Hygiene 2019, 2019 2:3;Nagoya.Jpn J of Hygiene 73(S) 2019 general oral presentation2019
2. Sawaguchi T: World Drug Report 2017 associated with Opioids. 89th Annual Congress of Japanese Society of Hygiene 2019, 2019:2.3;Nagoya.Jpn J of Hygiene 73(S) 2019 general oral presentation, 2019
3. Sawaguchi T : Comparison between newborn mice & adult mice associated with orexin and orexin receptor. 89th Annual Congress of Japanese Society of Hygiene 2019, 2019:2:3;Nagoya.Jpn J of Hygiene 73(S) 2019 general oral presentation, 2019
4. Sawaguchi T: Children at Healthy Japan 21 with an Analysis of the Indicator Framework. 89th Annual Congress of Japanese Society of Hygiene 2019, 2019:2:3;Nagoya.Jpn J of Hygiene 73(S) 2019 general oral presentation, 2019

5. Sawaguchi T: Sociomimetics approach for parent & child health 21. The 29th Annual Meeting of the Japanese Association of Epidemiology; 2019: 1.31; Tokyo Program. p.33 抄録あり, 2019
6. Sawaguchi A, Sawaguchi T. Sociomimetics approach for parent & child health 21 second report. The 29th Annual Meeting of the Japanese Association of Epidemiology; 2019: 1.31; Tokyo Program. p.33 抄録あり 2019
7. Takahashi M, Sawaguchi T. Sociomimetics approach for maternal & child health 21 third report. The 29th Annual Meeting of the Japanese Association of Epidemiology; 2019: 1.31; Tokyo Program. p.33 抄録あり, 2019
8. 澤口聡子、白田由香利、橋本隆子. 世界の国々の GINI 係数と neonatal mortality の経時的変化分析—Shape Analysis による affin/nonaffin 分割—. DEIM2019 第 11 回データ工学と情報マネジメントに関するフォーラム 長崎 2019. 2 DEIM Forum 2019 D1-4 抄録あり <https://dbevent.jp.org/deim2019/post/papers/210.pdf> 2019
9. T. Sawaguchi V-063 Session for genetic editing technology (2) Future of Schlusselfortschritts on the genome 1 Tokyo University of Social Welfare, Dept. of Social Welfare, Sannou-chou Isezaki, Japan <https://www.dgrm2019.de/InternationaleJahrestagungderDeutschenGesellschaftfürRechtsmedizin> (DGRM) Wissenschaftliches Programm Hamburg, 17.-21. September 2019 <https://www.dgrm2019.de/InternationaleJahrestagungderDeutschenGesellschaftfürRechtsmedizin> (DGRM) Wissenschaftliches Programm Hamburg, 17.-21. September 2019
10. T. Sawaguchi. Session for genetic editing technology (1) Future of human natural genetic resources 1 Tokyo University of Social Welfare, Dept. of Social Welfare, Isezaki, Japan <https://www.dgrm2019.de/InternationaleJahrestagungderDeutschenGesellschaftfürRechtsmedizin> (DGRM) Wissenschaftliches Programm Hamburg, 17.-21. September 2019
11. T. Sawaguchi V-065 Genome editing and Eugenic thought in Japan 1 Tokyo University of Social Welfare, Dept. of Social Welfare, Sannou-chou Isezaki, Japan <https://www.dgrm2019.de/InternationaleJahrestagungderDeutschenGesellschaftfürRechtsmedizin> (DGRM) Wissenschaftliches Programm Hamburg, 17.-21. September 2019
12. Sawaguchi T. Regression analysis with autoregressive errors of symptoms after poison exposure. The 90th Annual Meeting of the Japanese Society of Hygiene. 27th March 2019
13. Sawaguchi T. Logistic regression analysis of congenital biliary atresia in Japan in 2017 & 1995-2017. The 90th Annual Meeting of the Japanese

Society of Hygiene.27th March 2019

14. Sawaguchi Toshiko (Graduate School of Tukuba University)
Solvability by loss via Healthy Parents & Children 21.The 78th Annual Meeting of the Japanese Society of Public Health.25th October 2019

15. Sawaguchi T Methodology and Evaluation of Potential Medical Expense Calculation in Pediatric Surgery.The 57th Annual Congress of the Japanese Society of Pediatric Surgeons. Acceptance at 15:01 in Japanese time on 13/2 in 2020.

Held during 19th-20th September in 2020.

16. Sawaguchi T. Methodology and Evaluation of Latent Medical Cost Calculation in Pediatric Surgery-Comparison with Existing Methodologies. Acceptance at 15:01 in Japanese time on 13/2 in 2020.

Held during 19th-20th September in 2020.

G.Application and Registration of

Patents

Nothing