

國立成功大學醫學院公共衛生學科暨研究所 教授兼所長 李中一



Outlines

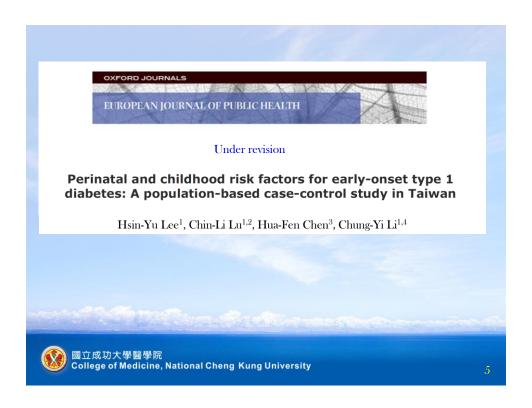
- Current limitations for better maternal and child health studies
- Administrative Data Based Taiwan Birth Cohort (ADBTBC)
- Potential contributions to life course epidemiological studies

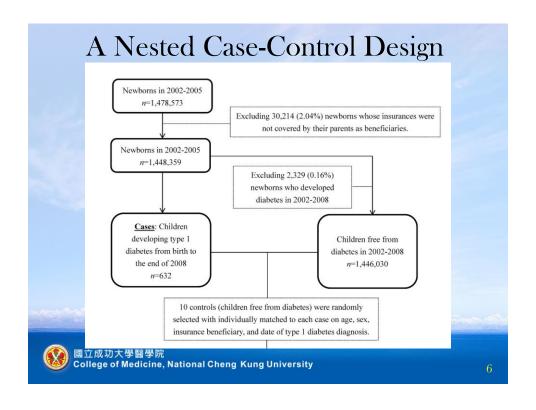


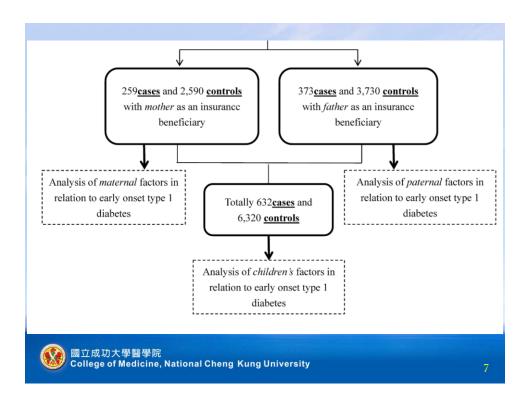
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兒童危險因子	依附母親		依附父親				
	病例組 (N=259) n(%)	對照組 (N=2590) n(%)	合計	病例組 (N=373) n (%)	對照組 (N=3730) n(%)	合計	†p-value
發病年龄(年)	п (70)	11(70)		11 (70)	11(70)		
0-4	170 (65.64)	1725 (66.60)	1895	259 (69.44)	2618 (70.19)	2877	P<0.05*
5-9(參考組)	89 (34.36)	865 (33.40)	954	114 (30.56)	1112 (29.81)	1226	
平均值±標準差	4.04 ± 1.91	4.02 ± 1.94		3.97 ± 1.96	3.94 ± 1.96		
兒童性別							
男性(參考組)	134 (51.74)	1309 (50.54)	1443	186 (49.87)	1917 (51.39)	2103	P>0.05
女性	125 (48.26)	1281 (49.46)	1406	187 (50.13)	1813 (48.61)	2000	
出生體重(克)							
≥2500(參考組)	254 (98.07)	2522 (97.37)	2776	352 (94.37)	3645 (97.72)	3997	P>0.05
<2500	5 (1.93)	68 (2.63)	73	21 (5.63)	85 (2.28)	106	
褒孕週數(週)							
≥37(參考組)	250 (96.53)	2517 (97.18)	2767	354 (94.91)	3629 (97.29)	3983	P>0.05
<37	9 (3.47)	73 (2.82)	82	19 (5.09)	101 (2.71)	120	
抬兒生長發育情形							
≥2500 克,≥37 週(參考組)	250 (96.53)	2509 (96.87)	2759	351 (94.10)	3621 (97.08)	3972	P>0.05
<2500 克,≥37 週	0	8 (0.31)	8	3 (0.80)	8 (0.21)	11	
≥2500 克,<37 週	4 (1.54)	13 (0.50)	17	1 (0.27)	24 (0.64)	25	
<2500 克, 、<37 週	5 (1.93)	60 (2.32)	65	18 (4.83)	77 (2.06)	95	

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(J Pediatr 2010;156:782-5).

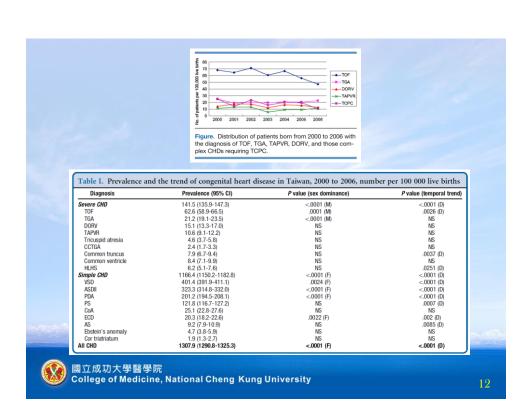
Prevalence of Congenital Heart Disease at Live Birth in Taiwan

Mei-Hwan Wu, MD, PhD, Hui-Chi Chen, PhD, Chun-Wei Lu, MD, Jou-Kou Wang, MD, PhD, Shin-Chung Huang, MS, and San-Kuei Huang, MD

From the health care records of the NHI database from 2000 to 2008, we selected patients who were born between 2000 and 2006 and met the criteria listed for CHD, on the basis of the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM) code. To avoid an overestimation from insignificant or spontaneously resolved defects (such as small VSD, PDA, ASD, and mild PS), patients with these lesions were enrolled only when they had a CHD-specific admission or >3 outpatient clinic visits.



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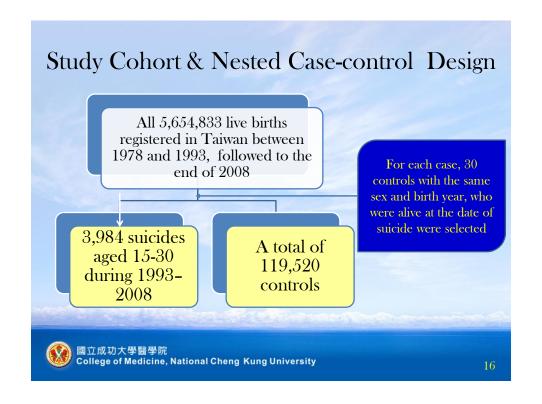


Table 2 Association between perinatal circumstances and risk of suicide

	Total				
Perinatal circumstances	Unadjusted OR (95%CI)	Adjusted ^a OR (95%CI)	Interaction by gender ^b <i>P</i> -value		
Maternal age (years)			0.35		
<20	1.54 (1.37, 1.74)***	1.65 (1.44, 1.89)***			
20–24	1.14 (1.06, 1.22)***	1.20 (1.11, 1.30)***			
25–29	1.00	1.00			
30–34	1.08 (0.97, 1.20)	1.02 (0.92, 1.14)			
≥35	1.18 (0.98, 1.43)	1.05 (0.86, 1.28)			
Married			0.12		
Yes	1.00	1.00			
No	2.00 (1.69, 2.37)***	1.76 (1.31, 2.35)***			

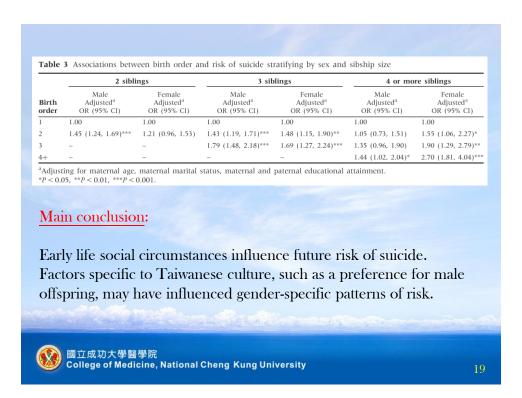
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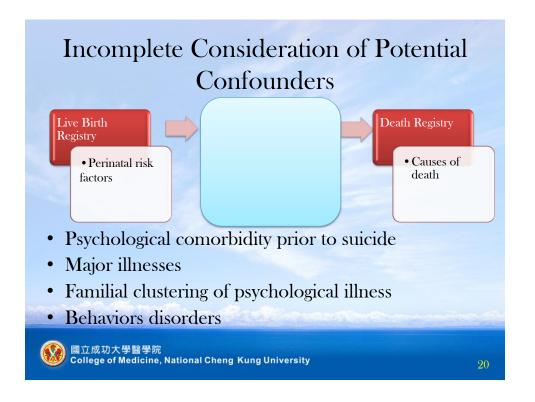
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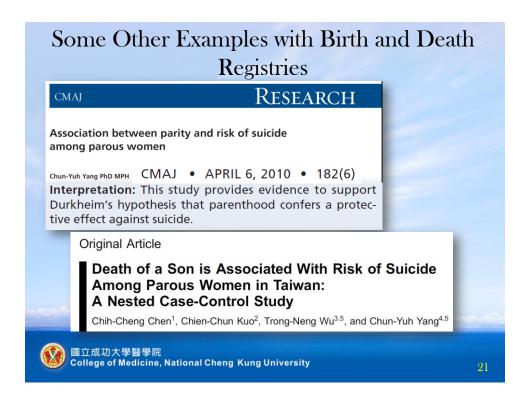
Maternal educational attainment			0.09
>12 years	1.00	1.00	
10–12 years	1.11 (0.95, 1.29)	0.97 (0.82, 1.14)	
7–9 years	1.36 (1.17, 1.58)***	1.01 (0.84, 1.20)	
≤6 years	1.17 (1.01, 1.35)*	0.83 (0.70, 1.00)	
Paternal educational attainment			0.02
>12 years	1.00	1.00	
10–12 years	1.10 (0.98, 1.23)	1.06 (0.93, 1.21)	
7–9 years	1.28 (1.14, 1.43)***	1.21 (1.05, 1.39)**	
≤6 years	1.26 (1.14, 1.41)***	1.22 (1.06, 1.40)**	
Birth order			0.14
1	1.00	1.00	
2	1.12 (1.04, 1.21)**	1.23 (1.13, 1.33)***	
3	1.13 (1.04, 1.24)**	1.31 (1.19, 1.45)***	
4+	1.22 (1.10, 1.35)***	1.45 (1.28, 1.65)***	



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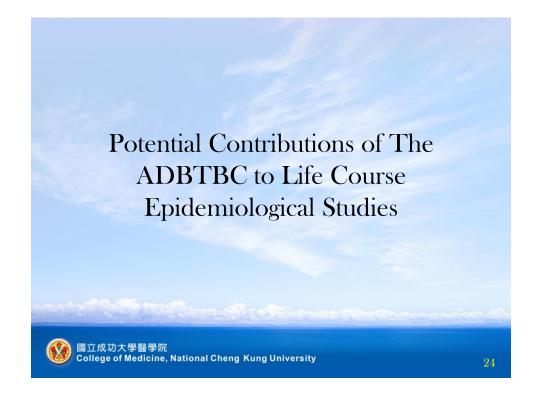












Make Long-term Follow-up Easier

- Fetal programing theory
 - Cardiovascular events in adults with low birth weight at birth
 - Trajectory of health after birth
- Inter-generational studies
 - Birth weight of mothers predicting the health outcome of children
 - Maternal illnesses predicting the health of children



9.5

Conclusion

- The proposed "Administrative Data Based Taiwan Birth Cohort" includes life course data, not only from cradle to tomb, but also across the generations
- A number of research hypotheses in life course epidemiology can be tested with this "Administrative Data Based Taiwan Birth Cohort"



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