

What Is “Pediatric Surgery”?

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History of modern surgery

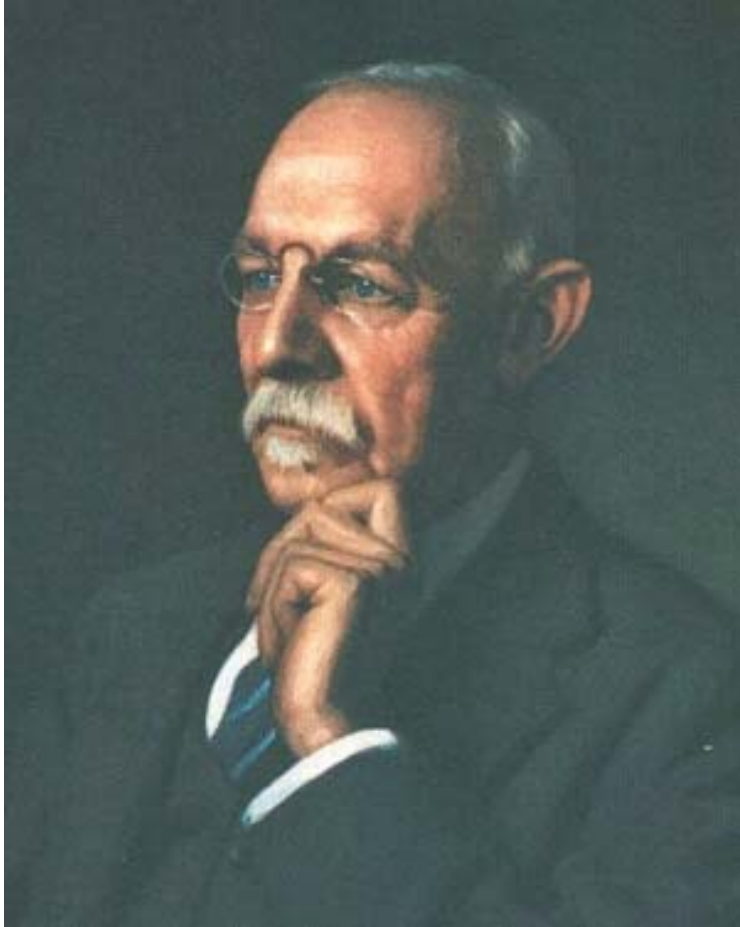
- Johns Hopkins – the founding four doctors
 - William Stewart Halsted (surgeon)
 - 1852-1922
 - William Osler (physician)
 - 1849-1919
 - William Henry Welch (pathology)
 - 1850-1934
 - Howard Atwood Kelly (gynecologist)
 - 1858-1943

The “four doctors” in Hopkins



From left to right:
William Henry Welch,
William Stewart Halsted,
William Osler,
Howard Kelly

William Stewart Halsted



- Father of modern surgery
- Hernia
- Breast surgery
- Surgical gloves
- Surgical residency
- Opiate user ?

Surgery before the era of the gloves



Pioneers in anesthesia



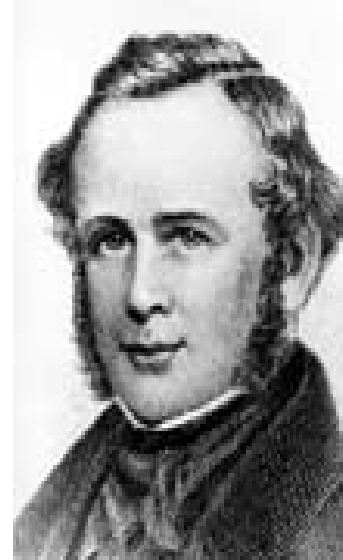
Crawford W. Long

1842



William T.G. Morton

1846



Horace Wells

1844



Charles Jackson

1846

History of pediatric surgery

Boston children's hospital

- William Edward Ladd (1880-1967)
 - Abdominal surgery
 - Ladd's procedure for intestinal malrotation
- Robert Edward Gross (1905 – 1988)
 - The first operation for PDA (1938/8/26)
- Hardy W. Hendren (1926 - present)
 - Cloacal malformation, the most severe form of the imperforate anus

Professor Robert E. Gross



Professor Hardy W. Hendren



What do we deal with everyday?

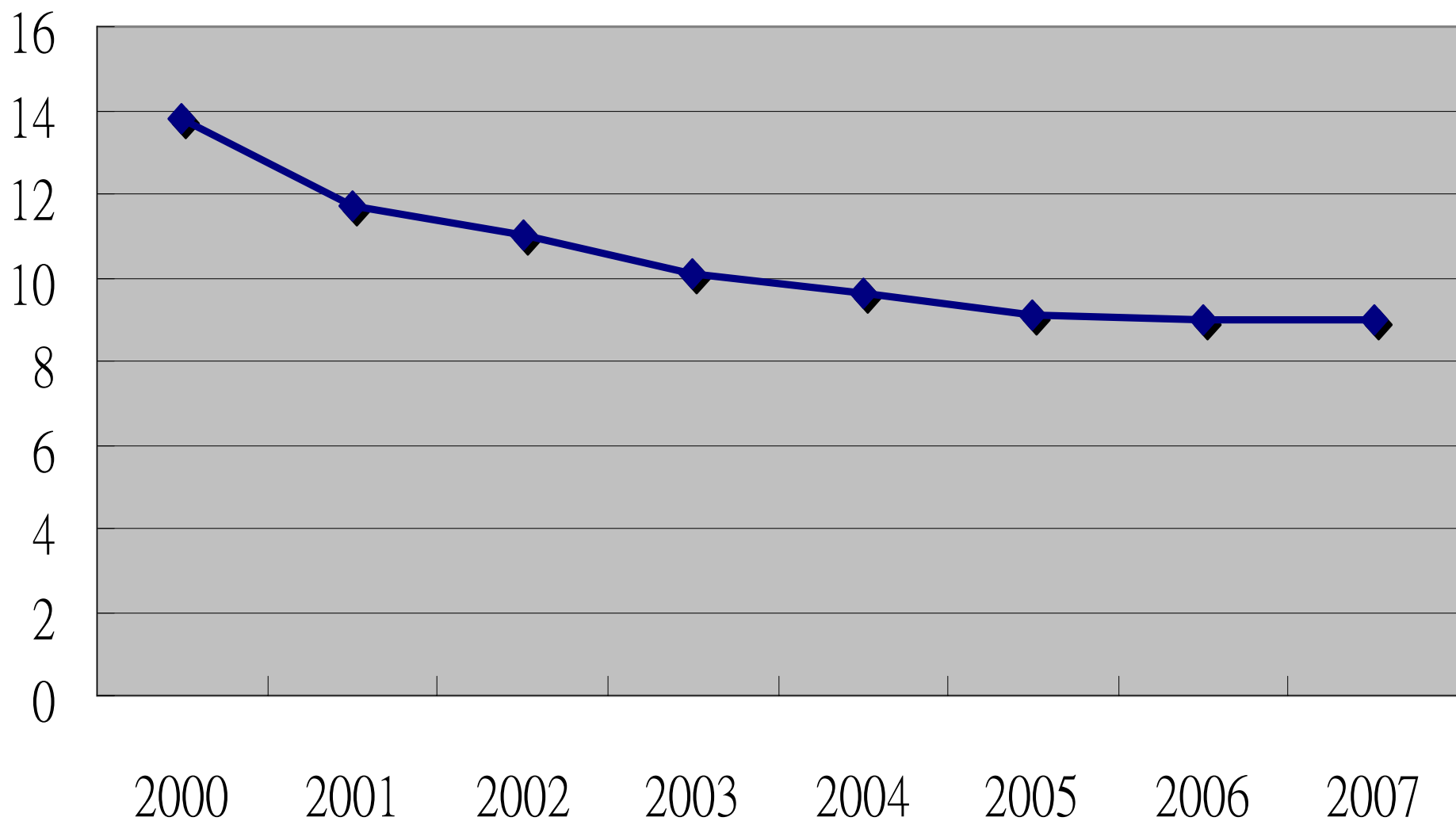
兒童外科(小兒外科) 處理事項包括下列幾項：

1. 新生兒先天畸型的矯正。
2. 與產科醫師合作，評估產前發現的外科疾病，選擇最適當的處理方式。
3. 兒童胸腹外傷的治療與照顧。
4. 兒童腫瘤的相關手術治療。
5. 兒童泌尿系統異常的手術治療。
6. 兒童胸腔呼吸系統異常的手術治療。
7. 兒童胸腔鏡、腹腔鏡的微創手術治療。

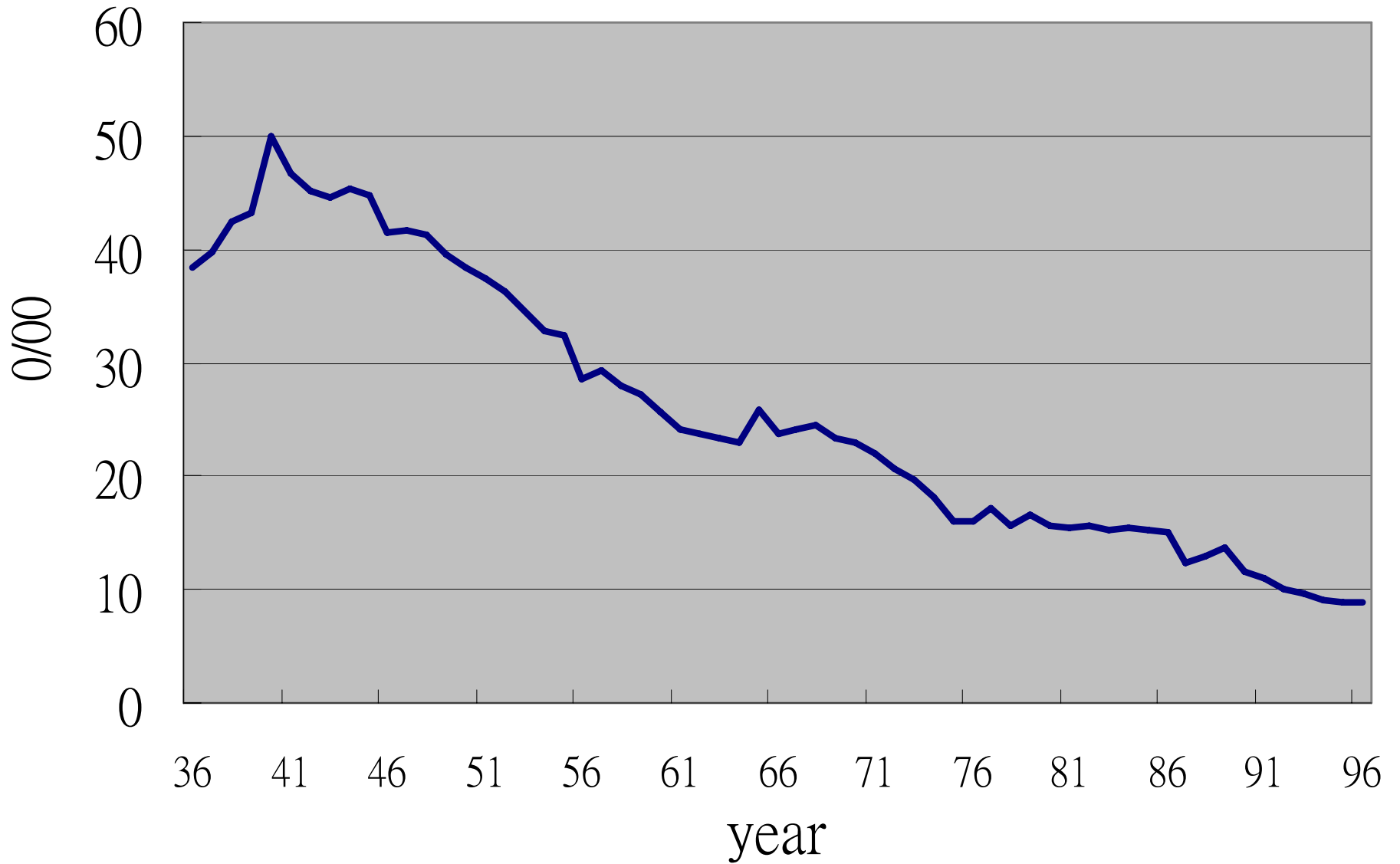
The worse time/the best time?

- The progress of technology
- The tendency of birth rate
- The socio-economic level of the patient/family
- Insurance payment

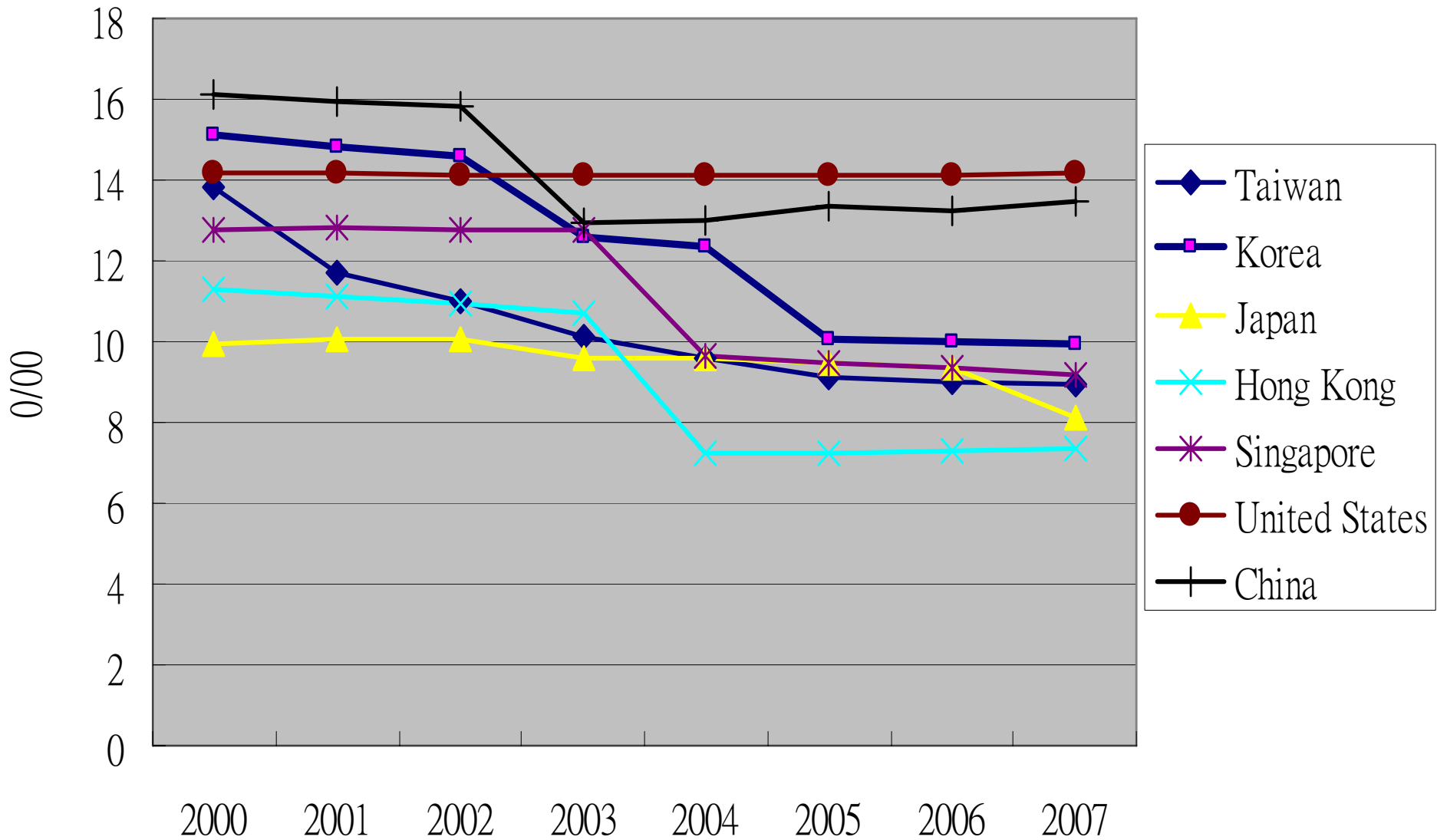
Birth rate in Taiwan - 1999 ~ 2007



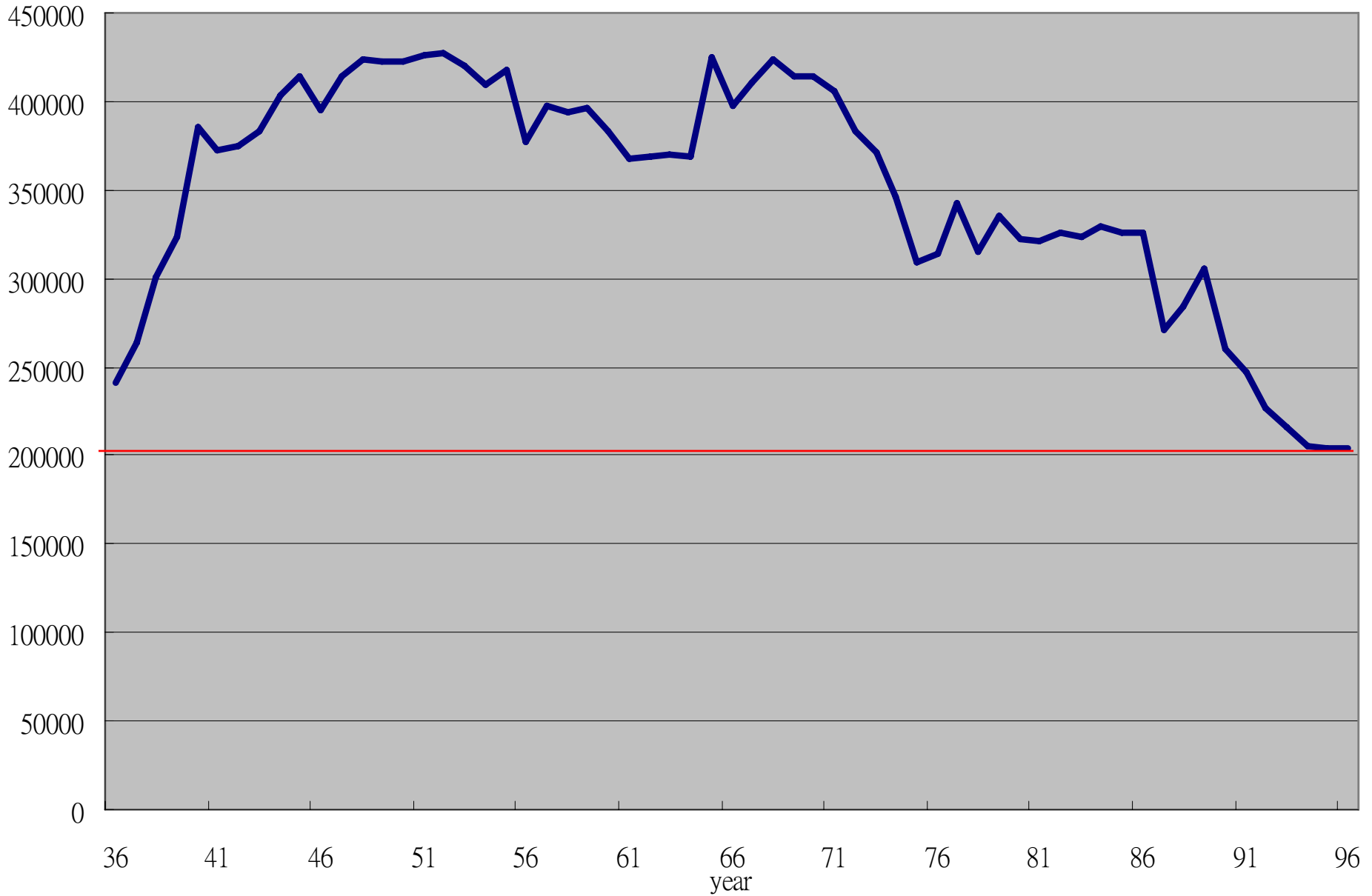
Birth Rate - since the year 1947



Birth Rate



Newborn number per year



What is the impact of 20,000

- Most of the incidences of the major diseases in PS: 1/10,000 → 20 cases per year in Taiwan → less than 2 cases per month in Taiwan
- The learning curve for a young surgeon will be very long.
- Our hospital is the only institution which fulfill the training standard in United States.