1st EUBIROD Annual Meeting: "The B.I.R.O. Academy"

Dasman Centre, Kuwait City, 2nd-4th May 2009

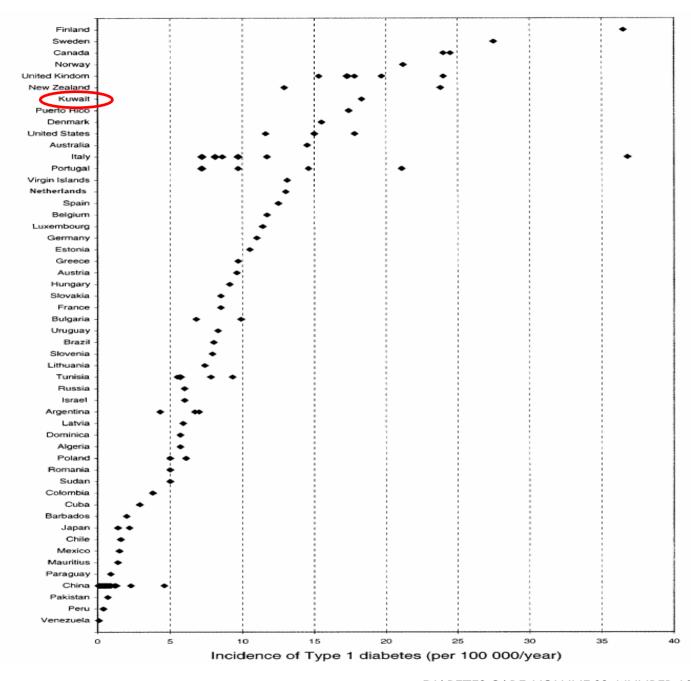
Kuwait data for BIRO analysis

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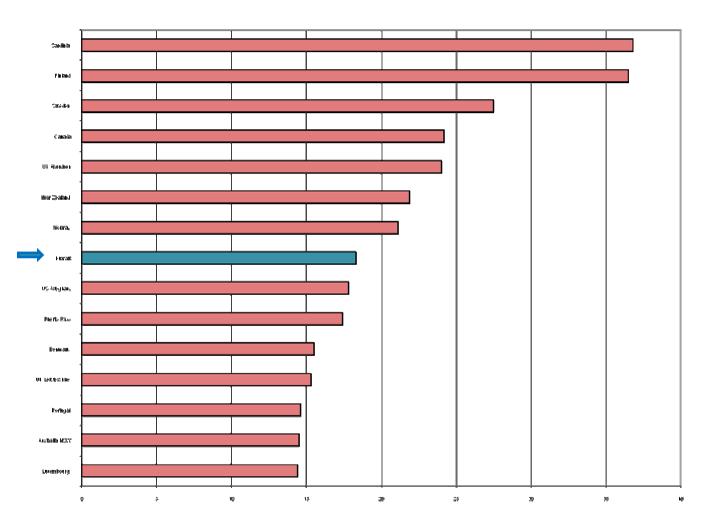
Do we have in Kuwait a "registry" for incidence of type I diabetes in children?

- The WHO Dia Mond Project was initiated in 1990 for the study of Type 1 diabetes world-wide. Data collection only started at beginning of 1992
- Inclusion criteria:
 - Children diagnosed with Type I diabetes between I Jan 1992 and 31 Dec 1998
 - Resident of Kuwait
 - Treated with insulin from the time of diagnosis of diabetes
- The estimation of the degree of ascertainment based on capture-recapture method

- The primary data source was active hospital reporting
- The secondary data source was reporting by physicians from 17 independent diabetic clinics
- The degree of case ascertainment varied between 90% and 96% during the study period with an average 92.5%
- 434 children were identified
- Mean annual incidence rate for both sexes was 20.1/10⁵ children (95% CI 18.0-22.1)



Age standardized incidence (per 100,000 per year) of type I diabetes in children < 15 yrs (1990-1994)



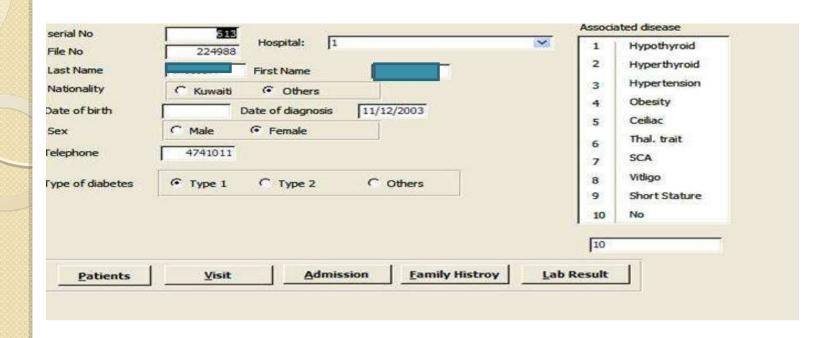
DIABETES CARE, VOLUME 2000; 23: 1516-1526

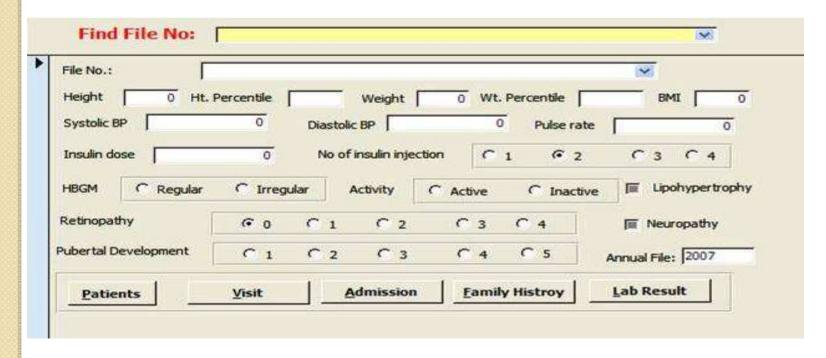
WHO Dia Mond Project

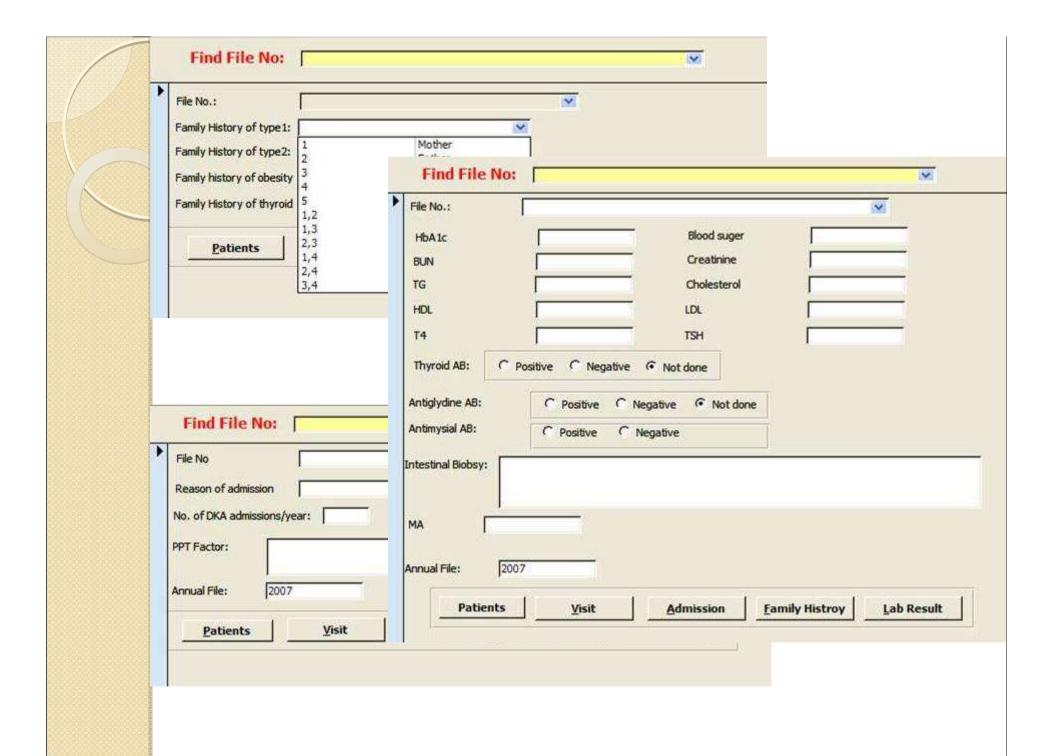
- The registry was part of Dia Mond initiative and was stopped at the end of the project
- Outdate software for data collection
- The data collection is still ongoing paper data forms
 - Comprehensive in some centers, irregular in others
 - No registry for children over 12, referred to adult service and the primary care centers

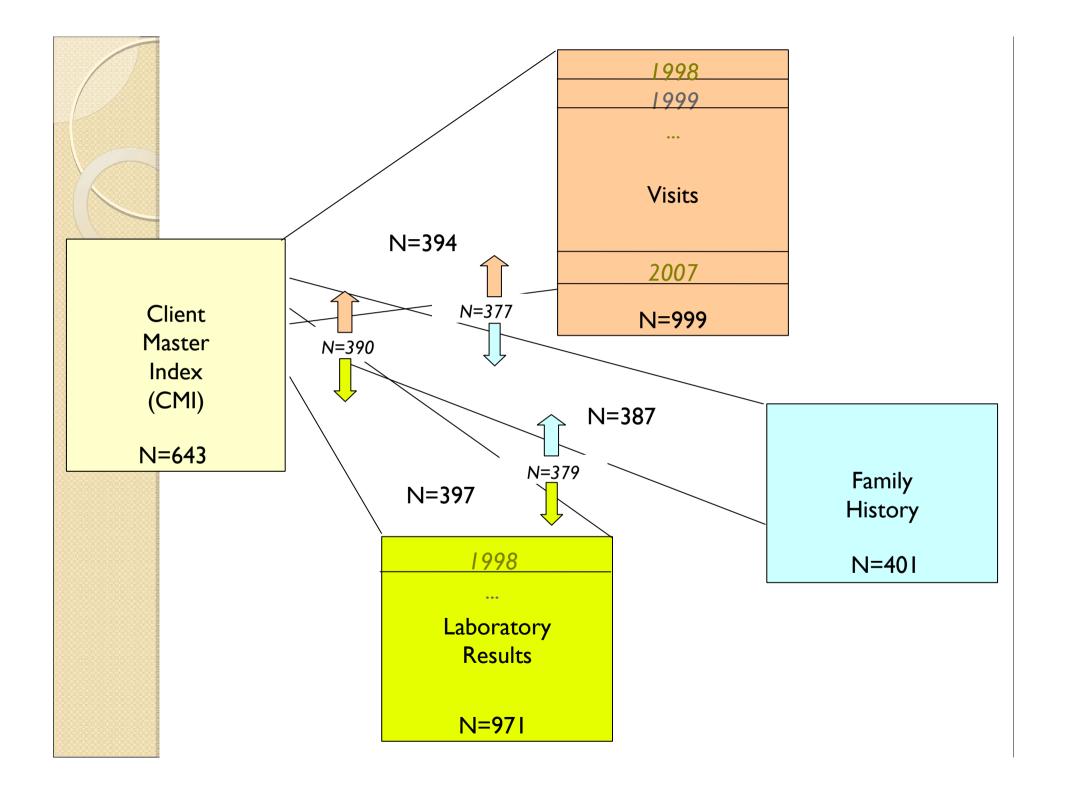
Al-Amiri Program for Registry

- Established since 1998
- Registry of children with diabetes including yearly newly diagnosed cases admitted to the paediatric diabetes care unit
- The goals:
 - Registry of children with diabetes in Al-Amiri
 - Follow up the progression of diabetes
 - Follow up of long term complications
 - Improvement in quality care

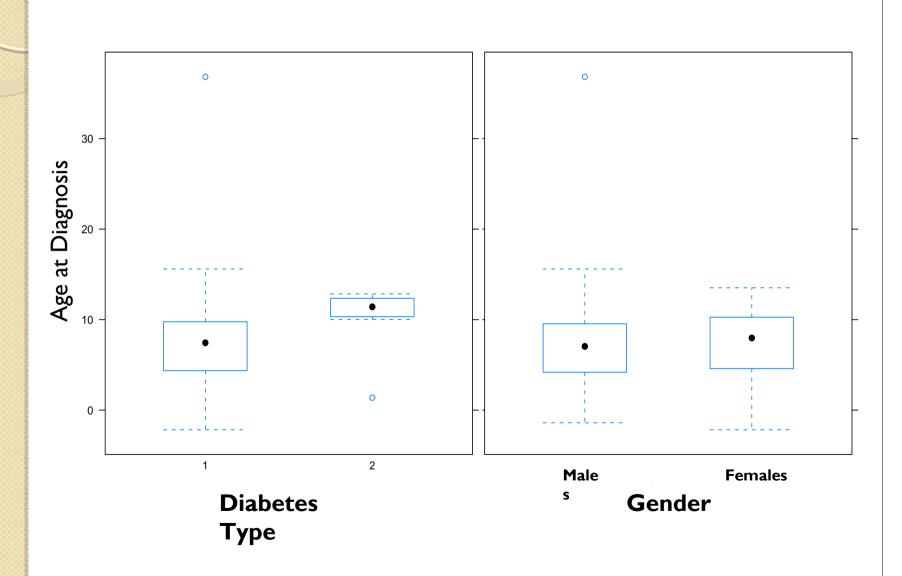




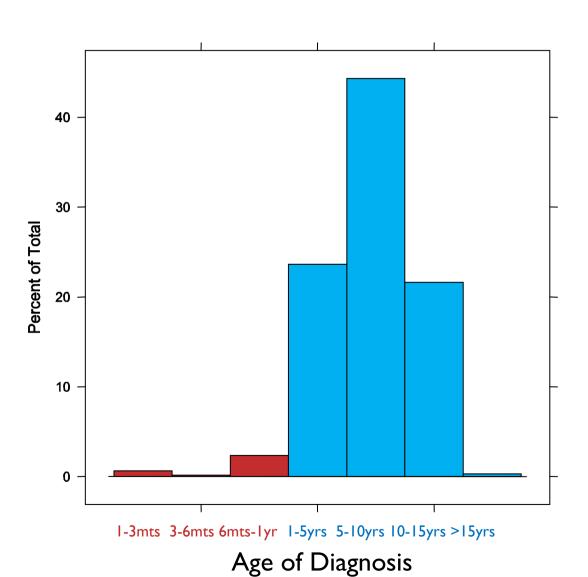




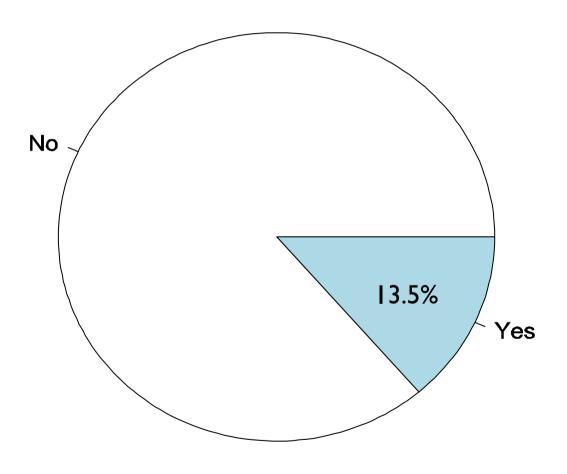
Client Master Index N=643



Client Master Index (1998-2007) N=643

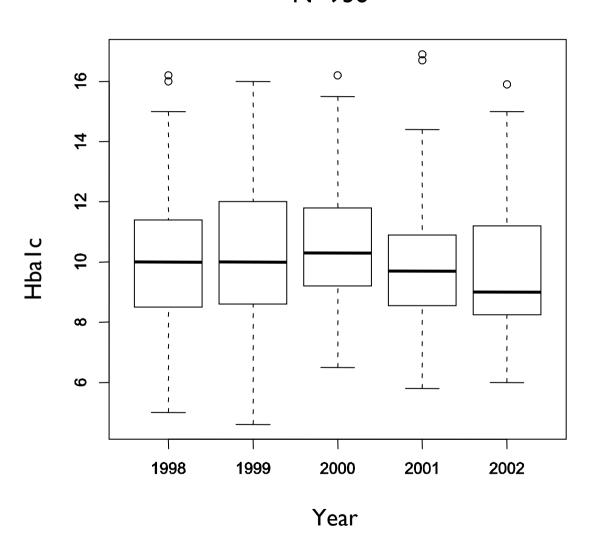


Family History (1998-2007) N=401



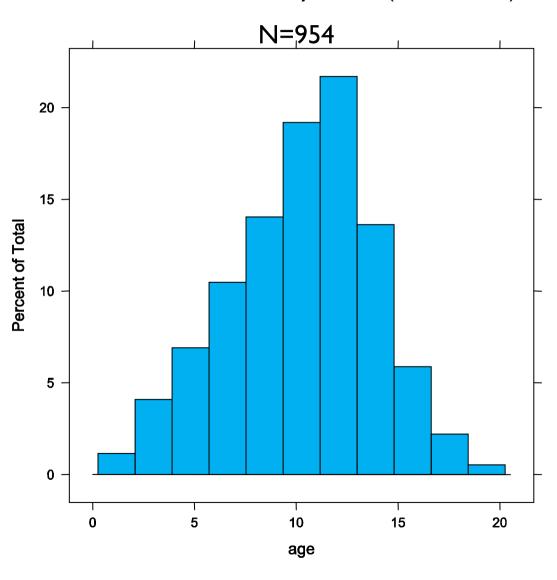
Siblings Familiarity

Laboratory results (1998-2002) N=936



Health Services

Visits and Laboratory exam (1998-2007)



Conclusion

 Relevant information can be derived from diabetes registry

Provided that

- Data is complete and sufficient
- It takes into account the difference between hospital or population based data
- Continuity of care is secured
- Appropriate human and structural resources are available