



Disease Registry: Definition I

Ongoing systematic collection, analysis and interpretation of disease data essential to the planning, implementation & evaluation of clinical public health practice, closely integrated with dissemination of these data to those who need to know.

(Source: CDC)



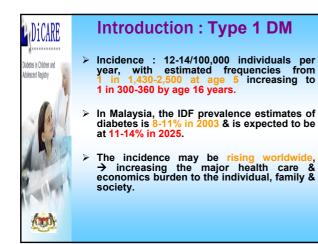


Purpose of A Disease Registry

- Quantify disease burden (morbidity and mortality) & its geographic and temporal trends.
- Early warning of rapid increase in disease incidence, eg. in infectious disease surveillance.
- Identify sub-groups most at risk of disease.
- Identify potential risk factors of disease.
- Evaluate treatment programme / Clinical audit
- Evaluate control & prevention programme.
 Facilitate research e.g disease aetiology, Rx
 - effectiveness, outcomes research, prognosis



Understanding Dicket Report





Type 2 DM (T2DM)

A retrospective diabetes clinic-based study from the greater Cincinnati, Ohio :-

The incidence of T2DM among children & adolescents (\leq 19 years of age) increased 10-fold between 1982 & 1994 (0.7 vs 7.2 per 100,000/yr).

T2DM

DiCARE

Diabetes in Children and

Adolescent Registry

- Obesity is associated with increase in the metabolic syndrome, cardiac risk factors and T2DM.
- 85% of children with T2DM are overweight or obese at diagnosis.
- Studies have shown that youth with T2DM will also develop diabetes related micro & macrovascular complications, as with adults.



Objectives of DiCARE

- Determine the number & the time trend of DM in the young in Malaysia.
- Determine the socio demographic profiles of these patients to better identify the high risk group in our Malaysian population.
- Determine the number, evaluate & monitor the outcomes of intervention in terms of metabolic control & complications.
 - Stimulate & facilitate research using this database.



DiCARE : Scope & Coverage

The scope & coverage of the database is to be implemented over time in phases:

<u>Phase 1</u> of the proposed DiCARE shall be limited to meeting objectives (1), (2) & eventually (3).

Objective 4 can be met as the database matures & as sufficient data has been accumulated.



Inclusion Criteria

- Age 0 <20 years old
- Seen in any of the participating sites.
- All types of diabetes mellitus



DiCARE Source Data Providers (SDP)

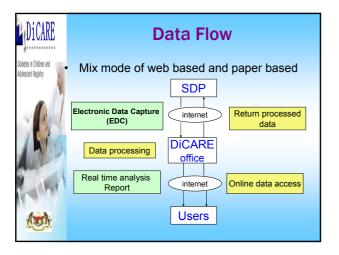
All paediatricians & physicians in Malaysia beginning with those currently working in the MOH and universities and later on extending it to those beyond MOH (private & armed forces).



Registries and Research

Proyer et al distinguishes 3 areas in which registries can contribute to research :-

- Descriptive studies
- Improving performance of other research designs
- For hypothesis testing as an alternative of RCT with ethical concerns.





Conclusion

- The WHO & several research institutions have recognized the importance of population-based registries as an essential tool in aetiological research & public health administration in the area of diabetes.
- It is timely that this study is undertaken in Malaysia so that further research on diabetes can stem out of this national database.

