



e-HATs

(e-Health Assessment Tools)

We exist to make a difference in people's lives through excellent
patient care.

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Introduction

■ e-HAT Potentials:

- Reduction of mortality and increase of average life expectancy;
- Equity in health and health care;
- Quality of life improvement;
- The information about health is more accessible to population;
- Increased efficiency and quality of health care delivery;
- The empowerment of patient to take care of his health.



Introduction

- e-HAT Applications:
 - more effective planning, decision-making and monitoring
 - improved shared service operations
 - greater access to more reliable H & P data
 - more effective resource management



Introduction

■ Project Scope:

- Browse this tool without registering.
- Anyone can view any time without registering.
- Allow user login by providing user id and password automatically
- Recalculating the risk using recalculation button.
- Support user feedback on order status and overall website experience.



Introduction

■ Project Goal:

- Provoke individuals to implement changes in their day to day life leading towards preventions.
- Each person manages and is responsible for their personal health and well being.
- To develop software for assessing risk and predicting the disease risk fall in adult population of Karachi by therapist as well as by public themselves.



Methodology

■ Data collection:

Data was collected by different hospitals in Karachi and by general population survey.

Approximately 3400 patients data was collected out of which 2300 data was selected for statistical analysis.

■ Statistical analysis:

For data base unit we perform statistical analysis using SPSS.

Algorithm for Point System we prefer Multi Logistic Regression.

Methodology

- Development of an expert system

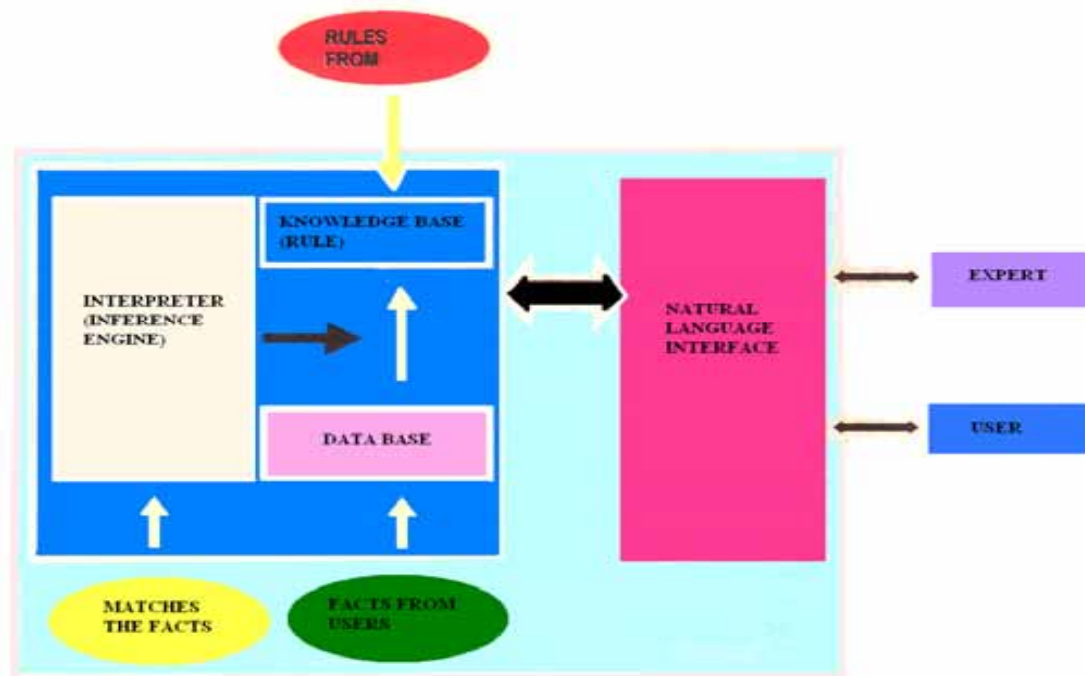


Fig1. Schematic diagram of the expert system

Result



The Web Version of e-HATs

Result

Your Disease Risk
THE SOURCE ON PREVENTION

[Home](#)
[Asthma](#)
[Osteoporosis](#)
[Diabetes](#)
[About Us](#)

8 ways to prevent disease

Asthma Risk Calculator:
To help determine your risk of **Asthma**, select the statement in each category that is most true for you. Click "Calculate Totals" Button when you have finished the entire profile.

Your Gender:

Your Age:

Family History:

Do you have....

Do you Smoke:

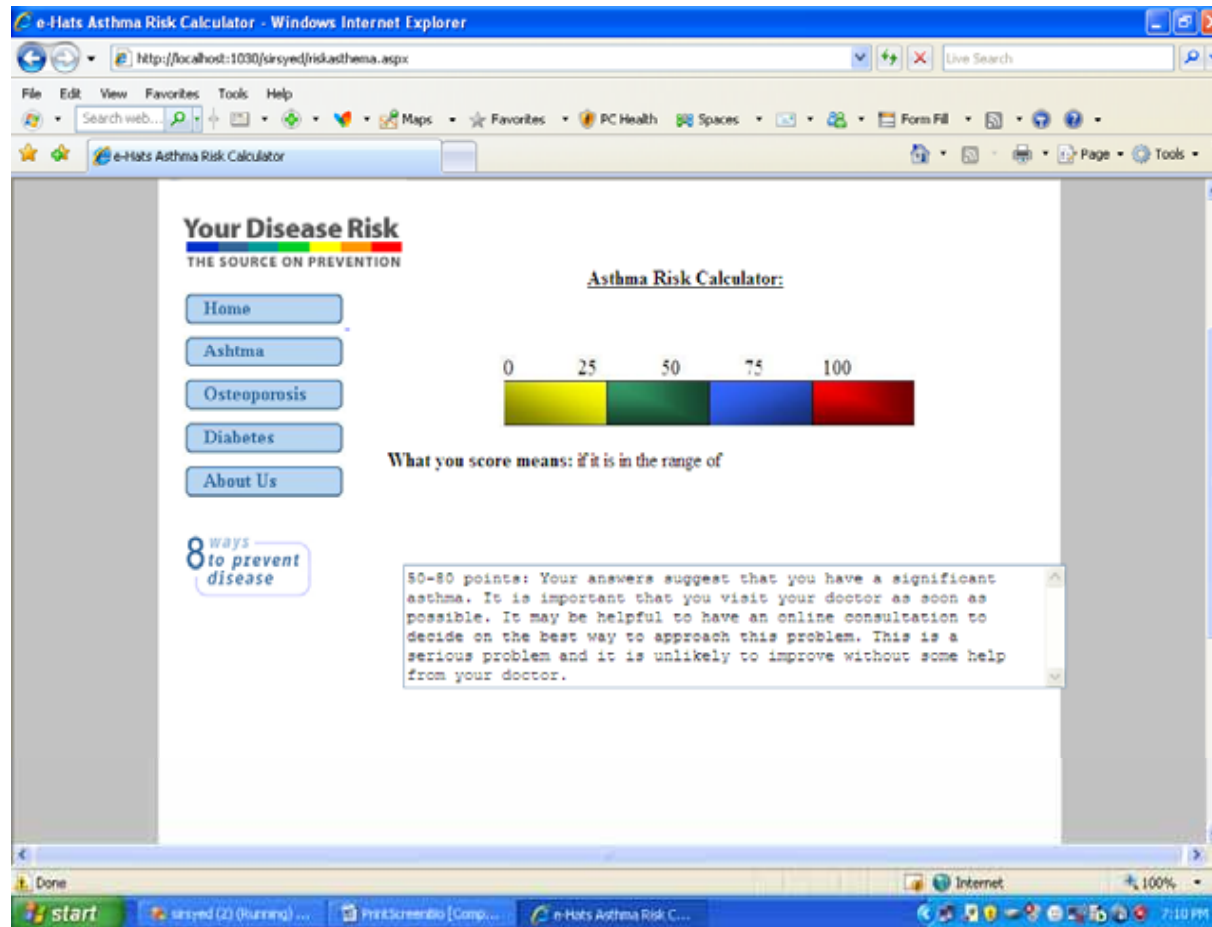
Environmental tobacco Smoke exposure: (e.g. weather, animal dander, air pollution etc)

How many hour you Expose to Smoke in a day? (Means any one around you smokes i.e. your family or friends)

Do you ever had cold that go to chest and take more than 10 days to take ever?

(a) User Input Window, similar input windows are created for Osteoporosis and Diabetes

Result



(b) e-Hat screen: Patient Asthma risk is displayed in text and graphic format; similar result windows are created for Osteoporosis and Diabetes.



Conclusion

Vision

We will be the market leader in clinical quality, customer service and operational performance by being...

- **SMARTER** ...in the way we operate.
- **FASTER** ...in acting on opportunities, challenges and change.
- **BETTER** ...at all we do to provide care.
- **TOGETHER** ...focusing on what matters more



Conclusion

- Conceptual models for diagnostic reasoning proposed in the medical literature are presented to stimulate discussion about the issue of the appropriateness of probabilistic knowledge-based systems for medical diagnosis.
- We have planned to implant e-HATs (Computer Based e-Health Assessment Tool(s)) in the actual clinical environment for the effective diagnosis so that it can be adopted for risk reducing treatments.



Thanks