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# Heart disease research paper pdf free pdf templates

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## PREDICTING HEART DISEASE USING MACHINE LEARNING TECHNIQUES

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**Abstract:** Heart disease is the number one killer in the world today, it is becoming one of the most difficult disease to diagnose the state of disease. If a heart disease is diagnosed early, many lives can be saved...

**Key words:** Machine learning classification techniques; heart disease; Doctor; Patient; Accuracy; F-Score;

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257

## PREVALENCE OF PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA (PSVT) IN THE UNITED STATES IN PATIENTS UNDER 65 YEARS OF AGE

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**Objective:** Paroxysmal Supraventricular Tachycardia (PSVT) prevalence estimates based on chart audits of a single encounter, with ECG confirmation, may underestimate prevalence, given the episodic nature of PSVT. The objective of this study is to estimate PSVT prevalence in the U.S. using longitudinal data from a large employer-based claims data set.

**Methods:** Data Source: Truven Health Analytics MarketScan databases, with demographic, enrollment, medical and prescription drug claim data for 89,800,000 commercially insured individuals over 4 years. Study population: Patients < age 65 with a PSVT diagnosis (ICD-9: 427.0; ICD-10: 147.1) from October 2012 to September 2016. Prevalence: Age- and sex-adjusted ratios of PSVT patients to total number of individuals with insurance coverage in each year were used to calculate prevalence in the U.S. population. Patients with a PSVT diagnosis were counted in each year they were observable. Estimates were projected to the U.S. population by age and gender using U.S. census data.

**Results:** A total of 186,026 PSVT patients < age 65 were identified in the claims data. When projected to the U.S. population, annual prevalence estimates ranged from 1,107,101 to 1,396,182. The majority of PSVT patients (61%) were female; most (62%) were age 41 to 64 (**Table 1**).

**Conclusion:** Based on coded clinical diagnoses, PSVT affects 1.1 to 1.4 million individuals < age 65 in the U.S. annually. Estimates that rely on a single medical encounter may underestimate PSVT prevalence.

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## Essential Features of a Surveillance System to Support the Prevention and Management of Heart Disease and Stroke

A Scientific Statement From the American Heart Association Councils on Epidemiology and Prevention, Stroke, and Cardiovascular Nursing and the Interdisciplinary Working Groups on Quality of Care and Outcomes Research and Atherosclerotic Peripheral Vascular Disease

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Janet B. Croft, PhD; Judd D. Flesch; Francis G.R. Fowkes, MD, PhD; Yuling Hong, MD, PhD;
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Russell Luepker, MD, MS; Teri Manolio, MD, PhD; Christopher O'Donnell, MD, MPH;
Rose Marie Robertson, MD; Wayne Rosamond, PhD; John Rumsfeld, MD, PhD;
Stephen Sidney, MD, MPH; Zhi Jie Zheng, MD, PhD

### Executive Summary

# A SURVEY ON HEART DISEASE PREDICTION USING DATA MINING TECHNIQUES

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## Abstract

In healthcare industry, data mining plays a vital role for predicting diseases. These large amounts of data are very important in the field of Data Mining to mine useful information and generate relationships with the attributes. Heart disease prediction system can help health professionals in predicting heart disease status based on the medical data of the patient. Data mining offers the methodology and technology to change these loads of data into helpful information for decision making. This paper intends to give a survey of current techniques of knowledge discovery in databases via data mining techniques in heart disease prediction.

**Keywords:** Data Mining, Heart Disease, Risk Factors, Prediction, Accuracy.

## INTRODUCTION

Data mining is used successfully and extensively in healthcare today. Data mining is the analysis of large data sets to discover patterns and use those patterns to forecast or predict the likelihood of future events. Usually, the mined information is represented as a model of the semantic structure of the dataset. It may be probable to employ the model in the prediction and classification of new data [3]. Healthcare

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## A quadratic penalty algorithm for linear programming and its application to linearizations of quadratic assignment problems

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24 April 2018

### Abstract

This paper provides the first meaningful documentation and analysis of an established technique which aims to obtain an approximate solution to linear programming problems prior to applying the primal simplex method. The underlying algorithm is a penalty method with naive approximate minimization in each iteration. During initial iterations an approach similar to augmented Lagrangian is used. Later the technique corresponds closely to a classical quadratic penalty method. There is also a discussion of the extent to which it can be used to obtain fast approximate solutions of LP problems, in particular when applied to linearizations of quadratic assignment problems.

### 1  Introduction

The efficient solution of linear programming (LP) problems is crucial for a wide range of practical applications, both as problems modelled explicitly, and as subproblems when solving discrete and nonlinear optimization problems. Finding an approximate solution particularly rapidly is valuable as a "crash start" to an exact solution method. There are also applications where it is preferable to trade off solution accuracy for a significant increase in speed.

The "Idiot" crash within the open source LP solver Clp [2] aims to find an approximate solution of an LP problem prior to applying the primal revised simplex method. In essence, the crash replaces the minimization of the linear objective subject to linear constraints by the minimization of the objective plus a multiple of a quadratic function of constraint violations.

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