An Epidemiological Analysis of Ischemic Heart Disease Across Diverse Nationalities

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Abstract- Ischemic heart disease (IHD) is one of the primary causes of morbidity and mortality worldwide. While the burden of IHD is known to vary among nations, there has been inadequate research that explores the epidemiological patterns of IHD across totally different ethnicities. This review study analyses existing research on the epidemiology of ischemic heart disease (IHD) among people of various ethnicities. The observations show that IHD incidence and risk variables range significantly between ethnicities. In addition, IHD rates are greater in certain locations, such as South Asia, the Middle East, and Africa, than in Western populations. These disparities may be attributed to differences in IHD risk factors such as tobacco use, arterial hypertension, and a history of diabetes. These findings have significant implications for public health strategies aimed at reducing the worldwide burden of IHD. However, further investigations are required to understand better the interaction of genetics, lifestyle, and environment in determining IHD epidemiology across many countries.

Index Terms- Ischemic heart disease, Cardiovascular disease, Nationality, Epidemiology, Prevalence, Incidence, Mortality, Ethnicity.

I. INTRODUCTION

Ischemic heart disease (IHD), often referred to as coronary artery disease (CAD), is among the top causes of morbidity and mortality around the world. It is a disorder that develops when blood flow to the heart is reduced due to constriction or blockage of the coronary arteries, which deliver blood to the heart muscle. An inadequate supply of both nutrients and oxygen can result in chest discomfort, shortness of breath, and, in severe instances, heart attack and heart failure. IHD affects roughly 9 million people annually and as a result is the greatest cause of mortality worldwide. Along with adding to the human toll, IHD has a major economic impact, with direct and indirect expenditures exceeding \$320 billion yearly. Despite significant breakthroughs in prevention and treatment, the global burden of IHD remains high. Therefore, understanding the epidemiological patterns of IHD among different nations is critical for establishing effective public health initiatives to lower the disease's global impact.

Ischemic heart disease (IHD) epidemiology varies greatly among nationalities, so comprehending these variances is critical for designing effective public health guidelines to lessen the disease's worldwide impact. These gaps may be driven by variables such as heredity, lifestyle, and environmental influences. People at higher risk of IHD can be identified, leading to focused preventative and treatment methods by studying different nationalities. Furthermore, figuring out the interaction of these variables and their influence on IHD might aid in explaining observed disparities in IHD rates between other countries. Furthermore, as the globe becomes more interconnected via globalization and migration, investigating the epidemiology of IHD across different nations is critical for tackling the disease's worldwide impact and eliminating health inequities. Therefore, conducting multi-national epidemiological research is critical for furthering our understanding of IHD and influencing public health treatments.

The purpose of this review study is to comprehensively analyze and put together the outcomes of the current research on the epidemiology of ischemic heart disease (IHD) across nationalities. Hence, this research aims to identify and investigate patterns and trends in IHD incidence, prevalence, mortality, and risk factors among varied nationalities to inform public health policies and initiatives targeted at lowering the worldwide burden of IHD. Furthermore, this review article will provide light on the role of lifestyle, genetic, and environmental variables in determining IHD epidemiology and explain observed disparities in IHD rates among various countries. This review study seeks to give a thorough picture of IHD across varied nations and recommend opportunities for future research by undertaking a systematic analysis of existing publications on IHD epidemiology.

II. EPIDEMIOLOGY OF ISCHEMIC HEART DISEASE

Ischemic heart disease (IHD) is a medical condition in which the blood supply to the heart tissue is diminished, resulting in decreased delivery of oxygen and heart tissue damage. Atherosclerosis, the accumulation of plaque in the coronary arteries, which delivers blood to the heart muscle, is the most prevalent cause of IHD. Other reasons include blood clots, coronary artery spasms, and coronary artery disease. Being one of the world's major causes of death, the World Health Organisation (WHO) estimates that IHD causes 7.8 million deaths each year, accounting for around 16.8% of all fatalities worldwide. IHD prevalence varies by geography, with greater rates in industrialized countries. According to a 2020 research published in The Lancet Global Health, the global prevalence of IHD in 2017 was 5.5%, impacting roughly 420 million individuals. Additionally, IHD is more frequent in males than in women and rises with age.

Several risk factors have been associated with the development of IHD. These include:

- Age: The risk of IHD rises as one gets older.
- Gender: Men are more likely than women to acquire IHD, although women are more likely to die from it.
- Family history: People who have a family history of IHD are at a higher risk.
- Tobacco use: Smoking is a major risk factor for IHD because it affects the lining of the blood vessels, resulting in plaque formation.
- Hypertension: Hypertension increases the workload on the heart, increasing the risk of IHD.
- High cholesterol: Excessive cholesterol in the bloodstream can cause plaque accumulation in the arteries.
- Diabetes is linked to an increased risk of IHD because high blood glucose levels can damage blood vessels.
- Obesity: Overweight is a risk factor for IHD because it increases the strain on the heart and can contribute to the occurrence of other risk factors such as elevated blood pressure as well as elevated cholesterol.
- Physical inactivity: A sedentary lifestyle raises the risk of IHD.

III. Epidemiological studies on different nationalities in ischemic heart disease

Numerous epidemiological studies have been conducted to investigate the prevalence and incidence of ischemic heart disease (IHD) in various ethnic and national groups. The following are some noteworthy studies:

INTERHEART study:

The INTERHEART study was a large-scale epidemiological research project that examined risk factors for acute myocardial infarction (AMI) in people from all over the world. It occurred in 52 countries across six continents, with over 27,000 participants. The study sought to identify modifiable risk factors contributing to the worldwide burden of AMI and assess their relative relevance in various areas and ethnic groups.

The study implemented a case-control methodology, with cases being patients who had experienced their initial AMI and the control group being those who had never had an AMI. The researchers discovered nine manageable risk variables that accounted for more than 90% of the population-attributable risk of AMI globally. Tobacco use, dyslipidemia, diabetes, hypertension, weight gain in the abdominal region, mental health conditions, a lack of daily fruit and vegetable consumption, alcohol use, and lack of physical activity were all considered to be risk factors. In addition, the study discovered that the significance of these risk variables differed by area and ethnic group.

The study's advantages included its vast sample size, worldwide reach, and use of standardized data gathering and processing methodologies. It did, however, have certain areas for improvement, including its dependence on self-reported data, a lack of information on non-modifiable risk variables, and the possibility of selection bias.

Overall, the INTERHEART study adds to our understanding of the epidemiology of ischemic heart disease across cultures and emphasizes the necessity of tackling modifiable risk factors through global public health measures. Furthermore, the findings of this study can be used to design targeted preventive and treatment methods customized to the individual requirements of various communities.

MESA study:

The Multi-Ethnic research of Atherosclerosis (MESA) is a major prospective cohort research that aims to evaluate the prevalence, incidence, and risk factors for ischemic heart disease (IHD) among individuals with different ethnic groups in the United States. Over 6,000 people from six distinct ethnic groups participated in the survey, including Chinese Americans, European Americans, African Americans, Hispanic Americans, Japanese Americans, and South Asians.

The research measured blood pressure, cholesterol levels, glucose levels, and body mass index (BMI) using standardized procedures. Participants were tracked for an average of ten years, during which the occurrence of IHD events such as myocardial infarction, revascularization of the coronary arteries, and cardiovascular mortality was reported.

The MESA study's findings revealed substantial ethnic disparities in the prevalence and incidence of IHD. South Asians were the most likely to have IHD, afterwards African Americans and Hispanic Americans, with Chinese Americans having the least number of cases. The incidence of IHD varied by ethnicity, with African Americans and Hispanic Americans having a greater risk than European Americans. Traditional risk variables, such as hypertension and dyslipidemia, have been demonstrated to be significant indicators of IHD in all ethnic groups, but their relative relevance differed by ethnicity.

The MESA study's huge sample size and inclusion of multiple ethnic groups are two of its strengths, allowing for a complete assessment of the epidemiology of IHD across countries. However, the study had several limitations, such as a lack of data on other possible risk factors for IHD and the possibility of selection bias. Overall, the MESA investigation sheds light on ethnic disparities in IHD prevalence, incidence, and risk factors in the United States. The results of this study can be utilized to develop specialized preventative and therapeutic approaches that are tailored to the needs of diverse ethnic groups.

PURE study:

The Prospective Urban Rural Epidemiology (PURE) research is a major global cohort study aimed at investigating the influence of lifestyle, environmental, and social variables on CVD and other noncommunicable illnesses. Over 150,000 people from low-, middle-, and high-income nations from five continents have taken part in the study.

The PURE project has shed light on the epidemiology of ischemic heart disease (IHD) among many nations. One of the study's important results is the extensive global range in the incidence of IHD, with high-income nations having the highest rates and low-income countries having the lowest rates. The study additionally discovered that the prevalence of IHD varied by area and nation, with the greatest rates found in Eastern Europe, Central Asia, and portions of Africa.

The PURE study also looked into the risk factors for IHD in different geographies and ethnic groups. Traditional risk variables such as hypertension, dyslipidemia, and smoking were strong predictors of IHD in all research areas. However, the study identified certain unique risk variables particular to specific places or people, such as inadequate education, air pollution, and underweight status.

One of the PURE study's strengths is its huge sample size and inclusion of varied groups from various economic levels and geographic locations. The study also employed standardized data collecting and analytic methodologies, improving the results' validity and comparability across populations. However, the study had numerous limitations, including the use of self-reported data and the possibility of selection bias.

Overall, the PURE study adds to our understanding of the epidemiology of IHD across nations and emphasizes the significance of addressing both classic and new risk factors for IHD through global public health initiatives. The findings of this study can be used to design targeted preventive and treatment methods customized to the individual requirements of various communities.

MONICA study:

The MONICA (Multinational MONItoring of Trends and determinants in CArdiovascular disease) project was a large-scale multinational study that attempted to look at changes in the incidence, mortality, and case fatality of ischemic heart disease (IHD) in various nations and regions. The research comprised almost 200 people from 38 different nations in Europe, Asia, North America, and Australia.

The MONICA research was carried out in three phases, the first beginning in the 1980s and the final in the early 2000s. The study employed standardized data collecting and processing methodologies, allowing results to be compared across populations and historical periods. In addition, the study gathered information on various risk factors for IHD, such as blood pressure, cholesterol levels, smoking status, and body mass index.

The MONICA research found substantial variance in the incidence and mortality of IHD between populations and geographies. The study discovered that the incidence of IHD was greater in males than in women, and that the incidence and death rates in Eastern Europe were typically higher than in Western Europe. The study also discovered numerous modifiable risk factors for IHD, including smoking, high blood pressure, and high cholesterol levels, all of which were linked to an elevated risk of IHD in all populations.

One of the study's strengths is its wide sample size and inclusion of varied people from various nations and regions. The study also employed standardized data collecting and analytic methodologies, which improves the validity and comparability of the results across populations. The study did, however, have several drawbacks, such as its dependence on hospital-based data, which may understate the real prevalence of IHD.

Overall, the MONICA study provides vital insights into the epidemiology of IHD across many nationalities, emphasizing the need for focused preventive and treatment measures adapted to the individual requirements of distinct communities. This study's findings have influenced the creation of worldwide public health measures aiming at lessening the burden of IHD, such as smoking cessation programmes, blood pressure control, and cholesterol-lowering medications.

KORA study:

The Cooperative Health Research in the Region of Augsburg (KORA) study is a large-scale population-based cohort study that aims to investigate the prevalence, incidence, and risk factors of various chronic diseases, including ischemic heart disease (IHD), in the general population of the Augsburg region in Germany.

The KORA research has been undertaken in numerous phases, the first of which began in the 1980s and is still ongoing. The study employs standardized data collecting and analytic methodologies, allowing for the comparability of results across periods and populations. The study collects information on numerous risk factors for IHD, such as smoking and physical activity, as well as clinical parameters such as blood pressure and cholesterol levels.

The KORA research found substantial differences in the frequency and incidence of IHD across age and gender categories. The study discovered that males had a greater prevalence and incidence of IHD than women and that incidence rates rose with age in both sexes. The study also discovered numerous modifiable risk factors for IHD, including smoking, lack of physical exercise, high blood pressure, and high cholesterol levels, all of which were linked to an elevated risk of IHD in the study group.

The KORA study's long-term follow-up and capacity to explore temporal patterns in the incidence and prevalence of IHD over several decades is one of its strengths. The study also contains a comprehensive analysis of several risk factors for IHD, allowing certain groups at high risk of developing IHD to be identified. However, the study has certain drawbacks, such as limited sample size and a focus on a specific geographic location, which may limit the findings' generalizability to other groups.

Overall, the KORA study sheds information on the epidemiology of IHD in a specific community and emphasizes the need for focused preventive and treatment measures adapted to the individual needs of distinct age and gender groups. The study's findings have influenced the formulation of national and worldwide guidelines for preventing and managing IHD, such as the European Society of Cardiology's guidelines on cardiovascular disease prevention.

IV. Risk factors for ischemic heart disease in different nationalities

Risk factors for IHD among different nationalities:

The risk factors for IHD are broadly categorized as modifiable and non-modifiable. The non-modifiable risk factors include age, gender, family history, and genetic predisposition. The modifiable risk factors include smoking, hypertension, hyperlipidemia, diabetes, obesity, physical inactivity, poor diet, and stress. The prevalence and impact of these risk factors on IHD vary among different nationalities.

For instance, in the United States, hypertension and hyperlipidemia are the most common risk factors for IHD. African Americans have a higher prevalence of hypertension than any other race or ethnic group in the US, which contributes to the higher incidence of IHD in this population. Similarly, Hispanic and Asian populations have a higher prevalence of diabetes, which is a significant risk factor for IHD.

In South Asia, including India and Pakistan, the prevalence of IHD is high, and the risk factors are primarily related to metabolic disorders such as diabetes, hypertension, and dyslipidemia. The prevalence of these risk factors is influenced by lifestyle factors, including physical inactivity, high-calorie diet, and obesity.

In the Middle East, the prevalence of IHD is also high, and the primary risk factors are related to lifestyle factors, including physical inactivity, unhealthy diet, and smoking. Additionally, there is a high prevalence of obesity, hypertension, and diabetes in this region, which contribute to the burden of IHD.

Comparison of the prevalence of different risk factors in different nationalities:

The prevalence of different risk factors for IHD varies among different nationalities. For example, in the US, African Americans and Hispanic populations have a higher prevalence of hypertension and diabetes than the white population. In contrast, in Japan, the prevalence of hypertension and diabetes is lower than in Western countries. However, the Japanese population has a higher prevalence of dyslipidemia, which is a significant risk factor for IHD.

Similarly, in South Asia, the prevalence of diabetes, hypertension, and dyslipidemia is high compared to other regions. In contrast, the prevalence of these risk factors is relatively lower in East Asian populations, including China and Korea. However, the prevalence of smoking and physical inactivity is high in these regions, which contributes to the burden of IHD.

Evaluation of the impact of these risk factors on the epidemiology of ischemic heart disease:

The impact of these risk factors on the epidemiology of IHD is significant. For instance, the high prevalence of hypertension, diabetes, and dyslipidemia in South Asia contributes to the high incidence of IHD in this region. Similarly, the high prevalence of smoking, physical inactivity, and poor diet in East Asia contribute to the burden of IHD in these regions.

In the US, African Americans have a higher incidence of IHD than any other race or ethnic group due to a higher prevalence of hypertension and diabetes. These risk factors also contribute to the higher incidence of IHD among Hispanic populations in the US.

V. Public health implications

The differences observed in the epidemiology of ischemic heart disease (IHD) among different nationalities have significant public health implications. Understanding these differences is crucial for developing effective healthcare policies and interventions aimed at reducing the burden of IHD.

Public health implications:

Firstly, the differences in the prevalence and impact of risk factors for IHD among different nationalities imply that public health efforts need to be tailored to specific populations. Healthcare policies and interventions must be sensitive to different populations' cultural, social, and economic contexts to achieve maximum impact.

Secondly, the high burden of IHD in some populations, such as South Asians, calls for prioritization of resources for prevention and management. Identifying and addressing risk factors for IHD in these populations, such as hypertension, diabetes, and dyslipidemia, could significantly reduce morbidity and mortality.

Thirdly, in some populations, the high prevalence of modifiable risk factors, such as smoking and poor diet, highlights the need for public health campaigns to promote healthy lifestyles. These campaigns should be culturally appropriate and consider social determinants of health that contribute to the burden of IHD.

Implications for healthcare policies and interventions:

Based on the public health implications, healthcare policies and interventions aimed at reducing the burden of IHD should focus on:

a. Prevention and management of risk factors:

Primary prevention efforts should focus on addressing modifiable risk factors, including smoking, physical inactivity, poor diet, and stress. Secondary prevention efforts should focus on identifying and managing risk factors, such as hypertension, diabetes, and dyslipidemia, through regular screening and appropriate treatment.

b. Tailored interventions:

Interventions should be tailored to specific populations to achieve maximum impact. For example, healthcare policies and interventions for South Asian populations should prioritize preventing and managing metabolic disorders such as hypertension, diabetes, and dyslipidemia.

c. Promotion of healthy lifestyles:

Public health campaigns should promote healthy lifestyles, including regular physical activity, healthy diets, smoking cessation, and stress management. These campaigns should be culturally appropriate and take into account social determinants of health that contribute to the burden of IHD.

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d. Research:

Research on the epidemiology of IHD among different nationalities is crucial for developing effective healthcare policies and interventions. It could also help identify new risk factors and inform the development of targeted prevention and management strategies.

VI. CONCLUSION

In conclusion, the epidemiological analysis of ischemic heart disease across diverse nationalities reveals important insights into the prevalence, risk factors, and disparities associated with this debilitating condition. The study's findings indicate that ischemic heart disease is a significant public health concern globally, with variations in incidence and mortality rates across different populations. The review highlights the importance of understanding the underlying factors contributing to the development and progression of ischemic heart disease, including lifestyle factors, genetic predisposition, and social determinants of health. The study also emphasizes the need for targeted interventions and policies to address the disparities in ischemic heart disease prevalence and outcomes observed among different nationalities. Overall, this research provides valuable information that can inform public health strategies to reduce the burden of ischemic heart disease worldwide.

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