WORLD JOURNAL OF PHARMACEUTICAL AND MEDICAL RESEARCH

www.wjpmr.com

SJIF Impact Factor: 6.842

Review Article
ISSN (O): 2455-3301
ISSN (P): 3051-2557

SCREENING, PREVENTION, CONTROL, AND MANAGEMENT OF NON-COMMUNICABLE DISEASES

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Article Received on 02/07/2025

Article Revised on 23/07/2025

Article Accepted on 13//08/2025

ABSTRACT

A Non-Communicable disease (NCD) is a disease that is not Transmissible directly from one Person to Another. It is defined as a disease of long duration, generally having slow Progression. A combination of genetic, lifestyle, physiological, and environmental factors can cause non-communicable diseases, According to WHO Four main types of NCDs are Diabetes, Cardiovascular disease, cancer, and respiratory diseases. They are diseases of long duration targeting Men, Women, and Children, and people in all income groups. NCDs are the leading cause of death globally. In India, Non-Communicable diseases (NCDs) contribute to 60% of all deaths. The four Major causes of NCD death are; Coronary Heart disease, Stroke, HTN (45%), Coronary Respiratory diseases (22%), Cancer (12%), and Diabetes (3%). Manage Risk factors of non-communicable diseases and lifestyle disorders in the form of proper management, the advice of daily and Seasonal regimen (*Dincharya and Ritucharaya*), Some detoxification procedures (*Shodhankarma*), Proper diet (*Aahar*), Exercise (*Vihar*), Medication (*Aushadha*) and Rejuvenation Therapies (*Rasayan*). *Ayurveda* describes three pillars for healthy life i.e., *Aahar*, *Nidra*, *and Brahmacharya*. It affects the physical, mental ethical, social, and spiritual well-being.

INTRODUCTION

According to *Ayurvedic Samhitas Santarpanjanya Viyadhi* can be correlated with Non-Communicable diseases.

प्रेमेहपिडकाकोठकण्डूपाण्ड्वामयज्वराः ॥५॥ तन्द्रा क्लैब्यमतिस्थौल्यमालस्यं गुरुगात्रता ॥६॥

कुष्ठान्यामप्रदोषाश्च मूत्रकृच्छ्रमरोचकः । इन्द्रियस्त्रोतसां लेपो बुद्धेर्मोहः प्रमीलकः ।

शोफाश्चैवंविधाश्चान्ये ॥७॥(ch.su.23/5,6,7) शीघ्रमप्रतिक्वंतः

Non-communicable diseases (NCDs), also known as Chronic diseases, do not spread from person to person. These illnesses take a long time to develop and do not Present Symptoms in the early stage. They require treatment for several years, and some require lifelong treatment. The main types of non-communicable diseases are Diabetes, Coronary Heart disease, Cancer, and Respiratory disease. They are diseases of long Duration

targeting Men, Women, and Children, and people in all income groups. Some of these diseases Progress Slowly

or Cause Chronic Symptoms requiring long-term care and control while others progress rapidly.

CAUSES & RISK FACTORS

संतर्पयति यः स्निग्धैर्मधुरैर्गुरुपिच्छिलैः ।

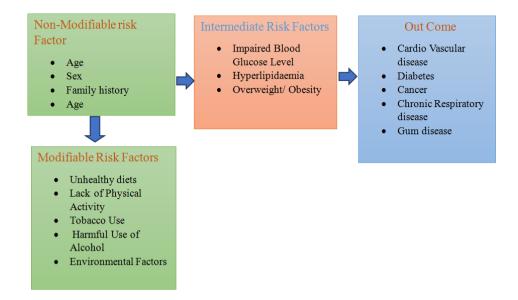
नवान्नैर्नवमद्यैश्च मांसैश्चानूपवारिजैः ॥ ३ ॥ ।।

गोरसैगाँडिकैश्चान्नैः पैष्टिकैश्चातिमात्रशः।

चेष्टाद्वेषी दिवास्वप्नशय्यासनस्खे रतः॥४॥

रोगास्तस्योपजायन्ते सन्तर्पणनिमित्तजाः ।(ch.su.23/3,4)

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Are Non-Communicable Disease Increasing

- People Shifting from rural areas to urban areas and making changes in lifestyle related to diet, exercise & Other behaviors.
- Decrease in Physical activity due to availability due to availability of Vehicles for transport.
- Availability and use of tobacco and Alcohol for all age groups.
- Low consumption of fruits and vegetables because of high costs/ lower availability.
- Increase consumption of refined & Packaged foods.
- Growing environmental pollutions(Air, Food, Water)

Sign & Symptoms

Sthoulya (Obesity)

(Https://www.clinic Barcelona)

- Difficulty in sleeping
- Excessive sweating
- Intolerance to heat
- Fatigue
- Depression
- Feeling of shortness of breath(Dyspnoea)
- Infection in skin folds
- Stretch Marks
- Swelling and Varicose Vein in the lower limbs.

Hypertension

(Word health Organization) https://.www.who.

- Severe Headache
- Nausea
- Difficulty Breathing
- Vomiting
- Anxiety
- Confusion
- Blurred Vision
- Abnormal Heart rythm

Diabetes

National Institute of health (.gov) https://www.niddk.nih.gov

- Polydipsia
- Polyphagia
- Polyurea
- Fatigue
- Blurred vision
- Numbness or tingling in the feet or hands
- Sores that do not heal

COPD

https;//en.m.wikipedia

- Cough
- Shortness of breath
- Wheezing
- Chest tightness
- Tiredness constant
- Anixiety

Screening of Non-Communicable disease तस्मादातुरं परीक्षेत प्रकृतितश्च, विकृतितश्च सारतश्च, संहननतश्च, प्रमाणतश्च सात्म्यतश्च, सत्त्वतश्च, आहारशक्तितश्च, व्यायामशक्तितश्च, वयस्तश्चेति, बलप्रमाणविशेषग्रहणहेतोः ॥(Ch.Vi. 8/94)

According to Acharya Charaka Screening of Non Communicable Diseases Can be done by Dashvidh Parikshya Bhavas Mentioned in Viman Sthan. Along with this Trividh, Chatuvidh, Shadvidh, & Astvidh Pariksha is also given in Ayurvedic Samhitas.

(Ministry of health & family welfare Government of

India)

Screening is a process of Identifying a disease condition among apparently healthy Individuals, who may be at increased risk of a disease or condition. Screening Programs can be Undertaken for a Population at large, or targeting high-risk groups.

1. Estimating the load of screening Target population(For screening)

- All Men & Women 30 years of age and above Hypertension and D.M.
- All Women 30 year of age & above for cervical & Breast cancer.

2. Setting up the site of Screening

- On a fixed day in a week you will undertake Screening. The site of screening can be either the village itself or at the center (If the sub-center is near).
- Screening of the common NCDs should be undertaken at a place that is easily accessible to all the members of the community, particularly women, the poorest, and other vulnerable groups & for the larger population.
- Screening should be conducted on a site where privacy is assured especially in the case of women.

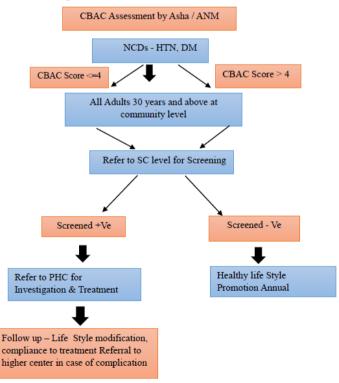
Method & Frequency of Screening

Types of NCDs	Age of beneficiary	Methods of screening	Frequency of screening
Hypertension	30 years and above	B.P apparatus digital or Aneroid Sphygmomanometer	Once a year
Diabetes	30 years and above	Glucometer	Once a year
Obesity	30 years and above	BMI	Once a year

Equipment required for screening

- For measurement of blood pressure you will require a B.P apparatus.
- For measuring blood glucose you will require a glucometer.
- For screening of oral & breast cancer you will be required to be skilled in visual examination.
- In the case of oral cavity you will use wooden blades & a torch.
- For the breast examination you will only need to use your hands.
- You may need to carry a "field kit'
- You may need to carry a "field kit 'when conducting outcome sessions or visiting remote areas. A "Field kit" will contain a BP apparatus, Glucometer, Wooden blades/ Mouth mirror, Measuring tape, Gloves, Torch, Cotton & Sprit swabs.

Flow chart showing Process of screening & Referral



Prevention of Non-Communicable diseases

- Following Dincharya by making suitable changes in the Aahar and Vihar.
- Rituanusar Shodhankarma (Purification).
- Triyaupasthamba
- Rasayana for a long and healthy life (Aacharrasayana)
- Sadvrita (Good code of conduct)
- Vajikarana
- Lifestyle disorders are the main groups of disorders that occur in the individual due to non-following of daily activities.

According to Modern – (WHO, UN) Global level

- Design national Policies & Plans
- Support & encourage research for NCDs Prevention & Control
- Monitor NCDs
- Support National & international Partnerships for NCD Prevention & Control

Country level

- Improve budgetary allocations to Support Primary health care System
- Engaging Nongovernmental Organizations, research institutions & Private Sector in Collaborative Partnerships for Implemention of an action Plan against NCDs
- Develop Countries quality improvement system focus on primary health care for prevention & Management of NCDs.

Society level

- Offer Healthy food in the workplace
- Offer Opportunities for Physical activity in the workplace for all the ages.
- Offer new resources from health related Non-Governmental Organizations to Support the services for the Prevention & Control,

Individual level

Follow a healthy lifestyle

Management

anagement				
AHAAR	VIHAAAR	AUSHADHA		
Acharya Charaka described tryopstambha (3 subpillers of life) i.e. Ahaar, Nidra, Brahmacharya. In the 3 subpillers, ahar is mentioned first, thus showing its importance. Daily consumption of hita, aviruddha, satmya, and nitya sevniya ahaar makes the person disease-free. Acharyas mentioned so many rules and regulations for diet and dietary habits. importance of pathya ahaar is mentioned as mahabhaishajya,	It is advisable to wake up during Brahma Muhurta. This is the best time to study and to practice Yoga. Oil massage ensures softness and unctuousness of skin, free movements of joints and muscles nourishment, improves peripheral circulation, and eliminates metabolic wastes. Regular exercise builds stamina and resistance against disease	Vaman, Virechana, Raktamokshana, Vyayam, upwas, Dhoompan, Swedana karma is to be done. Use of Haritaki Churna with Madhu is indicated along with Ruksha Anna. External application of Churna and Lepas as mentioned in Aragwadhiya Adhyaya of Sutrasthana of Charaka Samhita. Some Yoga are as follows-		
भेषजेनोपपन्नोअपि निराहारो न	and resistance against disease, clears the channels of the body	Triphaladi Kwatha, Mustadi Kwatha,		
शक्यते Iतस्मादिभषग्मिराहारो	and increases the blood circulation	Kushthadi churn,		
महाभैषज्यमुच्यते ॥ (Kashyap khil 4/6)	and efficiency of vital organs, promotes appetite and digestion, and prevents disease.	Triushnadi Mantha, Vyoshadhya Saktu		

CONCLUSION

Now a days due to modernization, the changes in lifestyle are observed and the day to day regimen as prescribed in *Ayurveda* could not be followed properly. So, the human beings are suffering from various non communicable diseases. The main objective of *Ayurveda* is to "Maintain the health of a healthy individual by prevention of disease and to cure the diseased ones *Ayurveda* being the foremost life science describes ways to prevent and manage lifestyle disorders. It provides proper dietary management and lifestyle advices through *Dincharya* (daily regimen), *Ritucahrya* (seasonal regimen), *Panchkarma* (Bio purification therapies) and *Rasayana*(rejuvenation) therapies. The *Sadvritta* (ideal routines) and *Aachara Rasayana* (code of conduct) are of

utmost importance to maintain a healthy and happy sociopsychological wellbeing of a person. The above facts emphasize the importance of the *Ayurvedic* principles for various lifestyle disorders including the NCD's. so *Ayurveda* principles most important for controlling NCDs.

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