Overview	verview Huntington's disease (HD) is an autosomal dominant neurodegenerative rare disorder with a 50% chance of inheritance. It equally affects men and women. Syn motor, cognitive and behavioural changes that typically manifest in middle adulthood. Juvenile HD (onset before the age of 21) progresses more rapidly and release.							
PHASES	1 - Premanifest HD	2 - First symptoms	3 - Diagnosis	4 - Treatment	5 - Monitoring			
Clinic	Premanifest HD presents with nonspecific clinical signs – e.g., subtle cognitive or behavioural changes. HD runs in families and most people with HD experience close relatives developing the disease.	Conversion from premanifest to manifest HD happens gradually and early symptoms can easily be understood as signs of other disorders. This adds to the difficulty of diagnosis. HD onset is conventionally defined as obvious motor abnormalities. But more often, non-motor symptoms occur earlier. HD has three types of symptoms: 1) motor – e.g., chorea, dystonia, speech and swallowing problems, instability 2) cognitive: e.g., deficits in executive functions, attention, recall, or emotion regulation 3) behavioural and psychiatric: e.g., depression, anxiety, apathy, irritability, aggression, or sleep disorders	Diagnosis is based on an interview, neurological examination and genetic testing. Genetic testing has been available since 1993. Going through genetic testing for HD has huge implications for both the individual and family members. The aim is to weigh the benefits of the genetic test and possible negative consequences (family planning, studies, career) in consultation with HD specialists (geneticist, neurologist, psychologist, psychiatrist). Predictive genetic testing is not recommended for asymptomatic children and adolescents under the age of 18 years. Appropriate genetic counselling is essential.	Currently, there is no treatment available that could significantly slow down or stop HD. Symptoms should be mapped and managed depending on functional relevance. There are drugs that can improve some of the motor and behavioural problems. Regular daily activities, exercise, cognitive training, nutrition, and prevention of complications (e.g., swallowing disorders, falls, social isolation) can reduce the impact of HD and improve quality of life.	The main goals are to maintain function and autonomy for as long as possible. Physical activity, psychological well-being, and nutrition are key areas to monitor and manage to improve the quality of life (QoL). Late-stage HD patients will require full-time care and assistance.			
Challenges	People at risk of HD and people with premanifest HD fear disease onset. Suppressing and attempting to ignore symptoms are common coping strategies. Healthcare professionals are often unaware of the subtle alterations that can affect well-being and daily function.	No two HD patients are alike, and because changes are gradual, it may take years to establish the disease onset. HD being a rare disease, healthcare professionals often struggle with diagnosis and miss relevant questions about family history.	HD symptom complexity leads to frequent misdiagnosis or delay. There is often too little collaboration between genetic units, clinical practice and research centres to ensure a seamless transfer for patients from diagnosis to follow-up treatment. Patients and family members should be made aware of the existence of HD associations. HD is a familial disease and relatives are often unaware of or underestimate the inheritance risk.	Healthcare professionals often lack a holistic understanding of the complexity of the disease. Due to emotional stress, and cognitive and behavioural changes, patients often disregard or negate symptoms and do not acknowledge the need for treatment and support. This causes great stress on the family. The treatment plan needs regular changes according to symptom fluctuation and progression. Monotherapy to treat chorea is preferred because combination therapy increases the risk of adverse effects and may complicate the management of non-motor symptoms. But adjuvant therapy is often needed in the form of antidepressants or to manage other disorders like sleep abnormalities or behavioural changes, which also leads to increased risk of adverse effects.	Patients, their relatives and caregivers often struggle because of the progressive nature of the disease. Symptoms worsen and change and cause a continuous struggle to adapt and cope. Families and healthcare professionals struggle to keep patients active and motivated while dealing with gradual functional losses.			
Goals	Educate healthcare professionals about premanifest HD specificities, so that they can provide timely and tailored support as needed. Establish a good relationship between patient	Healthcare professionals seek relevant expertise to ensure that HD diagnosis is set at the right time for each patient and family. Educate families about the triad of HD symptoms and how to manage and seek assistance effectively throughout the disease course.	Normalize an accurate and quick HD diagnosis. Provide a good follow-up process and support networks for patients and families. Children and adolescents with juvenile HD should have an Individual Education Plan. People with	Establish multidisciplinary teams that include a neurologist, geneticist, psychologist, neuropsychologist, nurse, psychiatrist, physiotherapist, speech therapist, social worker, occupational therapist, and nutritionist. Provide appropriate therapy for each stage of HD. Offer proper support, training, and resources to family members and care providers.	Establish trusting relationships to facilitate a continuous dialogue between patients, families, and healthcare professionals. Enhance the regular access of families to counselling and support from a multidisciplinary team. Educate heath care professionals that work			

and healthcare professional before disease onset.	HD should have access to peer support from an HD association.	in clinical units and nursing homes about the specific needs of patients with late-stage HD.

Premanifest HD are still healthy mutation carriers

Prodromal HD have behavioural, cognitive, and sometimes discrete motor impairments

Manifest HD have mostly everything and motor manifestations

Please note that specific terms (e.g., home care services, general physician, physiotherapy) may not include the same services dependent on the individual (EU) country. Patient advocacy groups can often provide support and resources for patients and families.

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