

# Understanding Dementia

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# The Burden of Dementia: Not Uncommon and Exploding

- At least 1 in every 85 persons worldwide (or 1.2%) have dementia
- Approximately **1 in 20** (or 5%) of the population over age 60 in Jamaica
- With the percentage growth of our elderly population it will be **1 in 4 persons (or 25%) over 60 by 2050 !**
- From 31.5 now to 115 million worldwide by 2050
- Alzheimer's affects more than 17,300 persons locally
- The numbers are growing daily

# The Burden of Dementia: Neglected

- A large percentage of persons undiagnosed locally and worldwide
- 28 million of 36 million persons worldwide with dementia are undiagnosed

# The Burden of Dementia: Costly

- In the USA annual financial costs of AD patients can average US\$25,000.00 for home care and **US\$50,000.00 for nursing home.**
- In the USA, the national cost of caring for people with AD is about **\$100 billion every year.**
- **One dollar in every hundred** produced by work worldwide is spent on dementia (1% of GMP)
- The worldwide cost is as much as the **total money produced by the 18<sup>th</sup> richest of the 196 countries** in the world.

# Outline

- A. The Profile, Types and Progression of Dementia
- B. The Pain of Personal Losses
- C. Interventions for Care
- D. Caring for Caregivers

# A. The profile, types and progression of dementia

Memory problems ?  
Not always dementia...

# Disorders of Mild Memory Function

- **NORMAL AGEING**
- **MILD COGNITIVE IMPAIRMENT**
- **DEMENTIA**

**(These can merge into each other)**



# DEMENTIA: A DISEASE OF COGNITION

For best care we need to keep in focus this  
essential feature.

**COGNITION** is **the ability to manipulate information** to cope with:

- the environment
- self
- others

# Cognition is a function of the Brain

Cognition involves:

1. recognition: or identifying information
2. memory: or recalling information
3. using language: or expressing information
4. carrying out learned motor behaviour: or using information to act
5. executive functions: or organizing information for living

# Examples of *Cognitive* difficulties

- **Recognition (Agnosia,)**

Am I losing *recognition* of objects and people's faces?

- **Memory**

Is my forgetting such as *names, telephone numbers and where I put things* affecting my function?

- **Language (Aphasia)**

Am I forgetting *common words* or losing my *trend of thought* while conversing?

# Examples of *Cognitive* difficulties

- **Learned motor behavior** (doing) (**Apraxia**),  
Do I have difficulty *getting dressed* or *using objects* like the TV remote, telephone or stove?
- **Executive Functions** sequencing, planning, organizing  
Am I having difficulty *doing complex tasks* like balancing my cheque book or following the plot in TV movies and books?

# Other features of **DEMENTIA**

- *Problem Moods and Behaviours*
  - depression, irritability, aggression, inappropriateness, agitation, apathy
- *Psychiatric symptoms* (e.g. psychosis, vulnerability to delirium)
- Changes in *Activities of Daily Living*
  - dressing, hygiene, handling money, household appliances, hobbies, social events

# Thus in **DEMENTIA** the Clinical Profile includes:

- **COGNITIVE** CHANGES leading to
  - **MOOD AND BEHAVIOUR** CHANGES and
  - **IMPAIRED ACTIVITIES OF DAILY LIVING**
- 

# Types of Dementia



# Types of Dementia

- **Degenerative Diseases of the brain**
  - **Alzheimer's** disease (Most common)
  - **Lewy body** disease (Second most common)
  - **Parkinson's** disease (30% of patients)
- **Vascular dementia** (10 to 20%)
  - begins with *stroke* and **progression step-wise**, suggesting recurrent vascular events
- **Infectious Disease**
  - **Creutzfeldt-Jakob** disease (prion proteins)
- **Others**
  - **Huntington's** disease
  - **Frontotemporal dementias** – e.g. **Pick's disease**
  - **Wilson's** disease

# REVERSIBLE DEMENTIA CAN OCCUR DUE TO:

- **Drugs** (medication, alcohol), **Delirium**
- Depression
- Metabolic Disturbances (e.g. **hypothyroidism**)
- Nutritional Disorders (e.g. **Vit. B12& Folic acid** def.)
- Tumors, Toxicity, Trauma to Head (e.g. **subdural Hematoma**)
- Infectious Disorders (e.g. **HIV, Syphilis**)

# How can we screen for dementia?

## Available Screening Tests

- **Memory Impairment Screen**
- ***Clock Drawing Test***
- ***The AD8 (caregiver responses)***
- ***And others***

# How is a diagnosis made?

## 1. Interview Diagnostic Instruments

- **Mini Mental State Examination** (Folstein)
  - Maximum score 30
  - Score <24 suggests delirium or dementia
  - Less sensitive in people with higher levels of education

# Interview

## Diagnostic Instruments (contd)

- **ADAS-Cog (Alzheimer Disease Assessment Scale-Cognitive)**  
(more thorough)
- **St. Louis University Mental Status Examination (SLUMS)** (for Mild Cognitive Impairment and dementia) is more sensitive

## 2. Neuropsychological testing

### 3. INVESTIGATIONS used to diagnose “reversible dementia” and causes of irreversible dementia

#### a. Physical and Neurological **exam**

#### b. Laboratory and other **tests**

- **BLOOD TESTS**

- **Electrolytes, BUN, creatinine, CA++**
- **CBC**
- **Thyroid studies\***
- **ESR**
- **B 12\***
- **Folate\***
- **VDRL\* / FTA-Ab, ANA, Anti DsDNA.**
- **HIV\* Ab**
- **Drug screen if appropriate**

- **EKG**

- **CXR**

- **CAT SCAN / MRI**

- **LP if suspicion of infectious etiology**

- **BRAIN BIOPSY.**

# ALZHEIMER'S DISEASE: DIAGNOSED BY EXCLUSION

- There is no exact clinical test or finding that makes Alzheimer's disease unique.
- **Brain imaging:** may find *brain atrophy* due to extensive neuronal loss
- Diagnosis confirmed by **histology of post-mortem brain**
- **These degenerative changes are little understood and thus difficult to treat as we would like**

# How to prevent under-diagnosis of dementia

- All caregivers should be taught how to **carefully observe** **persons at risk** who tend to **compensate** and conceal in early stages
- **Have a high index of suspicion** with minor reported **changes**
- As well as the patient interview, **ask caregivers and surrounding family and friends** for any giveaway symptoms or behaviours.



# Stages of DEMENTIA

- **Mild** – 2 to 4 years
- **Moderate** – 2 to 10 years
- **Severe** – 1 to 3 years

Let us look from the patient's perspective

# A. Transition Process

# Aspects and stages

## 1. Cognition- being less connected

Mild Stage	Moderate Stage	Severe Stage
<ul style="list-style-type: none"> <li>• Some regular <i>loss of recent memory</i> (e.g. re conversations &amp; events). Repeated questions.</li> <li>• Problems <i>expressing self</i> and <i>understanding others (language)</i></li> <li>• <i>Writing</i> and <i>using household and other objects</i> become difficult.</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Persistent &amp; pervasive memory loss</i> <i>Less awareness of current events</i></li> <li>• <i>Rambling speech</i>, unusual reasoning.</li> <li>• <i>Inability to learn new things.</i></li> <li>• Problems <i>recognising family and friends.</i></li> <li>• Confusion <i>about, time, and place.</i> Lost in familiar settings</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Severe to total loss of verbal skills.</i></li> <li>• <i>Loss of recognition</i> of familiar people and places</li> <li>• Confused about <i>past and present</i></li> <li>• Generally <i>incapacitated</i></li> </ul>

# Aspects and stages

## 2. Mood and Behaviour- being increasingly “cranky”

Mild Stage	Moderate Stage	Severe Stage
<ul style="list-style-type: none"><li>• Some <i>initial depression</i> and <i>apathy</i></li><li>• <i>Mild personality changes</i>. (e.g. irritability, disinhibition, regression).</li></ul>	<ul style="list-style-type: none"><li>• <i>Mood or behavioral</i> symptoms accelerate.</li><li>• <i>Impulsive</i> behavior. (e.g. irritability &amp; aggression – aggravated by stress and change.)</li><li>• <i>Delusions and paranoia</i>.</li><li>• <i>Sleep problems</i> (sometimes reversal of sleep cycle and night wandering)</li><li>• Slowness, rigidity, tremors, and gait problems impact <i>mobility</i> and coordination.</li></ul>	<ul style="list-style-type: none"><li>• <i>Extreme problems with mood and, behavioral problems,</i></li><li>• <i>Hallucinations, and delirium.</i></li></ul>

# Aspects and stages

## 3. Activities of daily living – coping less and less

Mild Stage	Moderate Stage	Severe Stage
<ul style="list-style-type: none"><li>• <i>Connects and is active but needs some reminders</i> for tasks</li><li>• Difficulties with sequencing impact <i>driving</i>.</li></ul>	<ul style="list-style-type: none"><li>• Need for <i>significant structure, reminders, and assistance in affairs</i>.</li><li>• Problems coping with <i>new situations</i>.</li><li>• Carrying out less <i>tasks that involve multiple steps</i> (such as getting dressed)</li><li>• Loss of sense of smell affects <i>desire for food</i></li></ul>	<ul style="list-style-type: none"><li>• Largely <i>incoherent or mute</i></li><li>• <i>Mostly inactive</i>. patients need total support and care</li><li>• <i>Falls</i> possible and <i>immobility</i> likely.</li><li>• <i>Incontinence</i></li><li>• <i>Difficulty swallowing</i>, weight loss, illness., seizures, or skin infections.</li><li>• Often die from <i>infections or pneumonia</i></li></ul>

# Aspects and stages

## 4. General – needing increasing outer control

Mild Stage	Moderate Stage	Severe Stage
<ul style="list-style-type: none"><li>• Independent living with <i>monitoring</i>.</li><li>• Adequate hygiene and judgment.</li></ul>	<ul style="list-style-type: none"><li>• One can still <i>connect</i> and <i>do</i> things. Yet has deficits one <i>can no longer “cover up”</i>.</li><li>• <i>Some degree of supervision</i> needed</li></ul>	<ul style="list-style-type: none"><li>• Mostly <i>disconnected</i>.</li><li>• Needs <i>constant supervision</i></li></ul>

# B. The Pain of Personal Losses

# ***Loss of AUTONOMY***

***“I have no say”***

- From **CONTROL** of one's life to
  - *dependency on others (role reversal with children)*
  
- From **INDEPENDENCE** to
  - *being supervised*
  
- From **STRUCTURING** the life one wants to
  - *taking anything one gets*
  
- From **ACTIVE PARTICIPATION IN COMMUNITY** to
  - *isolation*



# ***Loss of SELF-ESTEEM***

***“ I will become nobody”***

- From having **ALL OF ONE’S ABILITIES** to  
*being considered less than whole*
- From **SELF PROTECTION** to  
*being totally vulnerable*
- From being **USEFUL AND SIGNIFICANT** to  
*making no difference*
- From being a **UNIQUE PERSON WITH INHERENT DIGNITY** to  
*being considered an “inmate”*

# *Loss of Life Fulfillment*

*“Life holds nothing for me”*

- Aesthetic pleasures
- Attachment (The giving and receiving of love)
- Creativity
- Transcendence: living above one's struggles

# The Grief from Personal Losses

## STAGES :

- Denial ...
- Anger ...
- Bargaining ...
- Depression ...
- Acceptance...

Be aware of cycling through stages

Personal Losses and related grief  
comprise the essential  
end targets in  
non-pharmacological intervention

# C. Interventions for Care

# Best Non -Pharmacological Care is

A WHOLE TEAM MATTER AND  
A WHOLE PERSON MATTER

- The Whole Professional Team,
- The Whole Family and
- The Whole Community  
together

for

The Whole Person

# Participating teams

- Professional Whole Person Team

Primary care and specialist physical care, Physicians, Psychiatrists/psychologists, Nurses, Social Workers, Pastors (Body, Mind, Social, Spirit)

- The family Team (nuclear and extended)

- Community Team

- Family
- Other Caregivers
- Friends
- Neighbours
- Congregation
- Workplace
- Government Agencies
- Support and Advocacy Groups

**The Patient is at the centre as an active participant!**

# What is the best care for dementia?

- **Goals:**
  - Delay disease *progression*
  - Improve *quality of life*
  - Support *dignity, self-respect*
- **Targets:**
  - **C**ognition
  - **B**ehaviour and mood,
  - **A**ctivities of daily living (function)
  - Personal losses
- **Types of care:**
  - Pharmacological
  - Non-pharmacological



# Pharmacological Treatment

## -A “passing glance”

### 1. Management of Cognitive decline

- **Cholinesterase Inhibitors** for Mild to Moderate Dementia
  - Donepezil (**Aricept**)
  - Galantamine (**Reminyl**)
  - Rivastigmine (**Exelon**)
- Add **Memantine** for greater severity

# Pharmacological Treatment

## -A “passing glance”

### Cholinesterase Inhibitors and Memantine

- *Slows cognitive decline*
- Affects *behavioral* measures
- *Slows ADL decline*
- Reduces *caregiver burden*
- *Delayed nursing home placement* by 1.2 years

# Pharmacological Treatment

## -A “passing glance”

### 2. Behavioural Management

For: irritability, aggression, agitation, apathy

1. *Antipsychotics*: increased risk of death in elderly patients with dementia.  
Atypicals better tolerated.

2. *Benzodiazepines*: sedation, risk of falls, worsening cognition, respiratory suppressant.

- Cautious use for prominent anxiety, infrequently otherwise.
- **Lorazepam, Oxazepam** have no active metabolites
- Consider **Buspirone instead of Benzodiazepines** for anxiety.

3. *Possible benefit* (open verdict): **Valproate, Carbamazepine, Citalopram.**

*Periodically reduce or stop medication* to assess ongoing need.

# Pharmacological Treatment

## -A “passing glance”

For depression use:

**SSRI's**

# Non- Pharmacological Intervention

What can be done by  
the **Whole Team** for  
the **Whole Person**  
apart from using medication?

# Importance of Non- Pharmacological intervention

- This is as important as using medications.

Without it the help of medications would be almost pointless and much less effective.

- Management can be for the “long distance”

People usually live with AD anywhere from 2-10 years

Some can have it as long as 20 years.

Thus care to enable the best quality of life can be for the “long run”

# Types of Non-Pharmacological Interventions

1. General care
2. Managing behavioural problems

# 1. Non-Pharmacological General Care: Outline of Steps

- I. Facilitate team meetings for planning practical measures for future living
- II. Facilitate the best approach to caring
- III. Enable provision of whole person care
- IV. Encourage environmental modifications



# I. Facilitate **team meetings for planning practical measures for future living**

- Involve the patient, the family and other caregivers  
(vary composition of meetings according to need)
- Use psycho-education and anticipatory guidance
- Facilitate explicit planning
- Involve the patient with maximum respect and validation

Can we always involve the patients?

# I. Facilitate team meetings for planning practical measures for future living

## A) AREAS FOR PLANNING:

### ➤ Planning for family teamwork:

- Budgeting, listing tasks and dividing responsibilities etc.

### ➤ Financial

- Advance Directives

### ➤ Medico-legal planning

- Include power of attorney?

### ➤ Clinical Care planning :

- medical management strategy
- personnel, day care, assisted living, nursing home?

## B) FACTORS FOR TEAM SUCCESS:

- Any plan of must be discussed by all, *including the patient*, at all stages
- Seeking consensus building through conflict management
- Using effective communication and conflict management skills
- Developing compassion & clarity with each other vs
  - conceptualization
  - settling old scores
- Appropriate self-education on Dementia for all
- Seeking guidance about what to anticipate

# Non Pharmacological General Care

## II. Facilitate Best Team Member Approach

### a) Listen

- open ended questions,
- indirect leading,
- eliciting feelings,
- reflecting,
- stay **calm** and be **understanding**.
- **help the patient express** his or her *reflections* and *feelings* about **one's story** of dementia

***This is most of what we need to do!***

b. Preserve the patient's autonomy, self esteem,  
and life fulfillment as much as possible.

Do the “BALANCING ACT” in each area

Seek strategies for optimum possible  
negotiated balance

# ***Minimize Loss of AUTONOMY***

***“I have no say”***

## **Facilitate maximum:**

- **CONTROL** of one's life and  
*dependency on others (role reversal)*
- **INDEPENDENCE** and  
*being supervised*
- **STRUCTURING** the life one wants and  
*taking anything one gets*
- **ACTIVE PARTICIPATION IN COMMUNITY** and  
*isolation*

# ***Minimize Loss of SELF-ESTEEM***

***“ I will become nobody”***

Maximise:

- having **ALL OF ONE'S ABILITIES** vs.  
*being considered less than whole*
- **SELF PROTECTION** vs.  
*being totally vulnerable*
- being **USEFUL AND SIGNIFICANT** vs.  
*making no difference*
- From being a **UNIQUE PERSON WITH INHERENT DIGNITY** vs.  
*being considered an “inmate”*

# ***Minimize Loss of Life Fulfillment***

*“Life holds nothing for me”*

Help optimize:

- Aesthetic pleasures
- Attachment (The giving and receiving of love)
- Creativity
- Transcendence: living above one's struggles



# c) Address the Grief from Personal Losses

Remember the stages, with cycling:

- Denial ...
- Anger ...
- Bargaining ...
- Depression ...
- Acceptance...

# III. Enable the Provision of Whole Person Care:

## A. Direct Care

### ➤ BODY

- **Monitoring physical illnesses and care**
  - Watch chronic diseases!
- **Alternative Care: Protecting the Brain**
  - ✓ **Antioxidants:** Vitamin E, Blueberries, Turmeric, Selenium
  - ✓ **Brain enhancers:** Vitamin B Co, Omega 3 Fatty Acids (e.g. Fish Oil, Flaxseed)
  - ✓ **Lowering of Homocysteine :** Fruit and vegetables (7-9 servings)
  - ✓ **Brain Neurotrophic Factor:** Exercise
- **Massage**
- **Other home care**

# Whole Person Care:

## ➤ MIND

- ***Counselling for grief of personal losses***
- ***Counselling for resilience: Building trust, hope, gratitude, humour, altruism***
- ***Problem oriented counselling and psychotherapy***

## ➤ SOCIAL

- ***.Support from family, church and community: calls, visits, entertaining, support groups, day centres etc.***

## ➤ SPIRITUAL

- ***Pastoral care***

# B. Whole Person Healthy Lifestyles

For example:

➤ **BODY**

- Exercise, Nutrition (healthy and tasty food)

➤ **MIND**

- Creative hobbies, Recreation, Outings, Closeness to nature, Maximum practical activities

➤ **SOCIAL**

- Social reaching out (e.g. family, friends, colleagues), Pets, Voluntarism

➤ **SPIRIT**

- Faith, Forgiveness, Devotions and Music, Church involvement

Promote maximum **independence, usefulness** and **mobility** of the patient

# IV. Encourage

## Environmental Modifications

- Moderate stimulation through brain exercises, music, family pictures, conversations, reminiscences
- Memory measures:
  - clocks, calendars, to-do lists, name tags, alert bracelets,
- Supports for disabilities:
  - Night lights, rails, walkers. etc. Support adequate vision and hearing
- Protection in behaviour problems
  - For example: secure exits

## 2. Non-Pharmacological Interventions: **Behavioural problems**

(Irritability, aggression, inappropriateness, agitation, apathy)



Between 70 to 90% of people with AD eventually develop behavioral symptoms, including *sleeplessness, wandering and pacing, aggression, agitation, anger, depression, and hallucinations and delusions.*

## 2. Non-Pharmacological Interventions: Behavioural problems

### Steps:

- I. Assess the overall situation
- II. Attend to needs
- III. Educate caregivers in best approaches to the patient

## 2. Non-Pharmacological Interventions: Behavioural problems

### I. Assess the overall situation for possible causes

- Physical *discomfort*
- Physical *pain* or illness
- Psychiatric or depressive symptoms
- A *change* in living situation or routines
- *Hunger*
- *Loneliness*
- *Boredom*
- *Frustration*
- *Interpersonal issues*
- *Other emotional difficulties*



## 2. Non-Pharmacological Interventions: Behavioural problems

### II. Attend to needs

- Provide reassurance
- Use distraction as necessary
- Monitor and manage changes in living situations or routines
- Institute behavioral interventions. e.g.
  - counselling,
  - problem solving
- Make appropriate referrals

### III. Educate caregivers in best approaches to the patient

# Interaction skills for intervention with the upset patient

## Educate team members to:

- Be patient and flexible. Don't argue or try to convince.
- Clarify the patient's *wishes*
- Acknowledge requests and respond to them
- Empathize and help with the *trauma of change*
- Exercise compassion and clarity in requesting what is necessary
- Break down tasks
- Try not to take behaviors personally. Remember: it's the disease talking, not your loved one

# D. Caring for Caregivers

## *Where are people with AD cared for?*

- family homes
- assisted living facilities (those in the early stages)
- nursing homes (special care units)



## Who are the AD Caregivers?

- **Spouses** – the largest group. Most are older with their *own health problems*.
- **Daughters** – the second largest group. Called the “*sandwich generation*,” many are married and raising children of their own. These children may need extra support if a parent’s attention is focused on caregiving.
- **Grandchildren** – may become major helpers.



- **Daughters-in-law** – the third largest group.
- **Sons** – often focus on the *financial, legal, and business aspects* of caregiving.
- **Brothers and Sisters** – many are older with their *own health problems*.
- **Helpers, practical and registered nurses** – *Often bear the brunt of behavioural problems*
- **Others** – friends, neighbors, members of the faith community.

# The Demands of Care-giving



AD takes *a huge physical and emotional toll.*

Caregivers must deal with *changes in a loved one's personality* and provide *constant attention for years.*

Thus, caregivers are especially vulnerable to physical and emotional stress.



# Caregiver crisis risks for monitoring and intervention

- **Grief** (Denial, anger, bargaining, depression, acceptance)
- **Suspended life plans**
- The conflicts of “**role reversal**”
- **Exaggeration of pre-existing family conflicts** and abuse
- Elder **abuse**
- **Guilt**
- **Stress**  **Distress**  **Burnout**

# Caring for Caregiver Stress

## 1. The best approach:

- Facilitate adequate competence in care (appropriate to role and level)
- Have a supportive attitude, empathy, patience and promote mutual respect
- Promote Involvement in a supportive teamwork by all
- Ensure conflict resolution at all times with all others involved.
  - Manage *hierarchy* and *role* issues
  - Be a *mediator* and *interpreter*
- promote a whole person approach to SELF-CARE



# CARING FOR CAREGIVERS STRESS

## 2. Action

- Provide special **skills training** for wholistic dementia team care along with “literacy” in teamwork, stress and wholeness
- Provide adequate supervision and resources
- Provide respite services (time off, outings etc)
- Encourage healthy lifestyles and health screening annually and when necessary
- Enable practical problem solving
- Facilitate intervention for risk based crisis
- Carry out referral to services and resources for caregiver needs and crises as necessary
- Establish support groups

# PEER SUPPORT PROGRAMS

- *Peer support programs* can help link caregivers with trained volunteers.
- *Other support programs* can offer services geared to caregivers dealing with different stages of AD.
- *Jamaica Alzheimer's Outreach Association*  
52 Duke St. 927 8967



# Use Technology for Care giving

**Computers** can provide information and support to family caregivers through:



- *websites eg. Alzheimers Association USA*
- *blogs*
- *chat rooms*
- *Q & A modules*
- *medical advice forums*

These features have become very popular among users because they reach many people at once, are private and convenient, and are available around the clock.

# Points Discussed

- A. The profile, types and progression of dementia
- B. The pain of personal losses
- C. Interventions for care
- D. Caring for Caregivers

- DEMENTIA IS THE **#1** HEALTH PROBLEM WORLDWIDE FOR THE 21<sup>ST</sup> CENTURY
- Advances in dementia are far behind those made for Cancer and HIV
- It must become a priority special interest

# Let us have **BEST PRACTICES** to support caregivers for dementia care and by advocacy for institutional change.

We need a **NATIONAL DEMENTIA POLICY AND PROGRAMME** by the GOVERNMENT and CHURCHES and NGOs including:

1. **Prevention** strategies
2. **Screening skills and tools** for every primary care physician
3. **Specialist Dementia Clinics** with **Community Services** for all four health regions,
4. **Dementia Education**, **Day Centres** and **Caregiver Support Groups** in every region
5. A **designated medical officer** coordinating public Dementia services in the Ministry of Health.
6. The **integration** of Dementia with **Programmes for Non-Communicable Disease (NCD) prevention.**

**Dementia** requires

the **whole team**

and

the **whole nation**

caring for

the **whole Patient**

and

the **whole Caregiver**

When Team Factors and Members' Approach to the patient are done with *care and compassion* and to *enhance the dignity of the patient*, they will significantly contribute to minimizing the pain of personal losses



CAN WE DO IT?

YES WE CAN!



Thank You!

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