PHYSIOTHERAPY IN GERIATRY

Mgr. Dagmar Janů

The most frequent diagnosis in anamnesis

- heart diseases
- CHRI (cronical renal insufficiency)
- COPD (chronic obstructive pulmonary disease)
- Parkinson morbus/syndrom
- oncological diseases
- DM
- defect of musculosceletal system

The most reasons of hospitalisation

- cardial decompensation
 - \downarrow fraction of heart (\geq 25%)
 - pulmonia, fluidothorax
- fall/s
- infection of respiratory and urinary tract
- iontdiscrepancy, dehydratation
- oncological diagnosis
- worsen condition of nutrition
- trombosis of deep vein
- DM decompensation

Most often complications of current diagnosis

- patient´s condition after fracture colli femoris, colli humeri (after a fall)
- patient´s condition after fracture vertebrae (JEWET), costae
- condition of patient after brain stroke
- a bit of temperature up to fever
- the whole weakness
- decreasing of intake of food and liquid
- infection of respiratory and urinary tracts
- infection disease clostridy

Negative factors influencing physioterapy

- defect of senses getting worse hearing, eye-sight
- ↓ of physical condition
 - muscles, muscles coordination, gentle motoric, defect of walking, the total decondition
- ↓ congnitive and gnotick functions
 - ↑ forgetting,↓of concetration
- ↓ of fatic functions
 - \downarrow of speech, \downarrow ability to name something, \downarrow ability to understand
- ↓ or Ø interest of patient about moving (specialy in patients
 - after brain stroke)
- ↓ ability of space
- ↓ of recognition
 - sensing, attention, memory, image, thinking
- advanced stage of demention, morbus Alzheimer

The aim of physiotherapy

- to keep or to get better mobility (specialy walking ->this is the most important for relatives->it is most requirement for homecoming)
- to keep or increasing selfcare
- to keep to get increasing cognitive function
- to enable return home

physical and mental ability
> mobility of movement ability for ADL

Assumptons of reaching this aim

- to keep (renew, gaining) enough of moving patterns (PNF, Brunkow, Bobath)
- equal normalisation (compensation) of potentional defect (aweaken or shorten of soft tissue)
- mental thinking about a thing ->worsening of functions (preliminary of moving apparatus)
 - all activition organism (1 of muscles strong, 1 coordination, dynamics, permanency)
 - fof motoric activity, practising of walking and improving certainty (using accessories)

Kinesiotherapeutical influences

- improving of physical condition indicators
 - (breating content, heart output, normalisation of preassure, decreasing of clinical symptoms ICHS ischemic heart disease and so on)
- improving of possibility to control level of sugar in blood (possibility to \$\u00e4 medication)
- decreasing of bone matter

(mainly in women after menopasuse)

- decreasing of fall

(fractures)

- improving of mobility and all joint functions

(decreasing of pain)

- improving of quality of sleeping, ability
 - of studying, short-time memory
- alleviation of symtomps in development
 - of blood vessels ending
 - (arthery defect, decrease of vein inflammation, pulmonary decrease, pneumonia etc.)
- increasing of metabolic, keeping of optimal weight
- antidepressive influence
- decreasing of exhaustion

Procedure of kinesiotherapy

- to start breathing exercising dynamic (eventually local)
- to continue in exercising from acers (at first HKK then DKK)
- to choose excercise from easy one up to more difficult
- no hurry
- it is necessary to count with sense defects (eye-sight, hearing)
- to choose easy language to undestand (to excersise together with patients)
- to keep good mood

- important to understand the excercise with patients (to choose their close moving activites)
- be aware of over loading (to adjust intensity and extention of excercising up to date)
- Include excercising into regular daily programme
- not to excercise over pain
- be aware of isometric excercising (namely in hypertention)
- be aware of optimal temperature in the room
- to excercise one hour after food earliest (DM)

Physiotherapeutical means

conditional excercising in lying, sitting, standing position (to keep/to improve extention of joint movement and to keep/improve of muscle strenght)

- possible to use accessories

(theraband, overball, weight sacks, dumbbells1-2 kg, polles) practising of gentle motoric

- LTV kinesiotherapy on the base of neurophysiology (elements of PNF,Brunkow, Bobath,sensomotoric)
- practising of verticalisation (spinal ortesis-JEWET)
 - <u>into seat</u> with/without help, with/without support on limbs
 - training of seating stability

- <u>into standing position</u> with/without help, with/without protetic accessories
 - (hight/low walking device, armpit crutches, crutches, walking stick)
 - training of standing stability
- <u>into walking position</u> with/without help, with/without protetic accessories

(hight/low walking device, armpit crutches, crutches, walking tick)

 training of modification steps and walking, co-movement of upperlimbs