

# Chronic patients management in family medicine in Slovenia Impact of practice nurse to chronic care work

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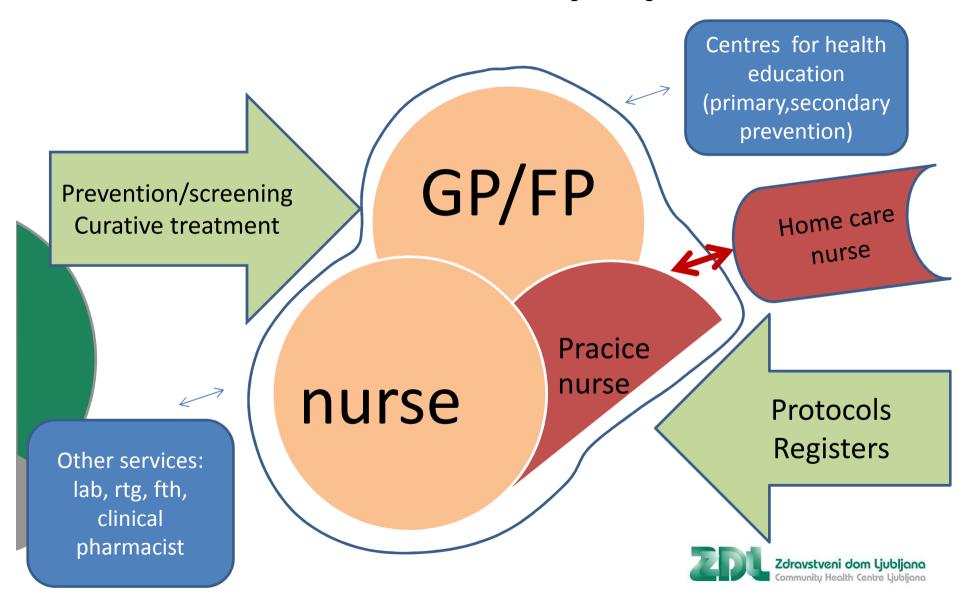




# Facts:

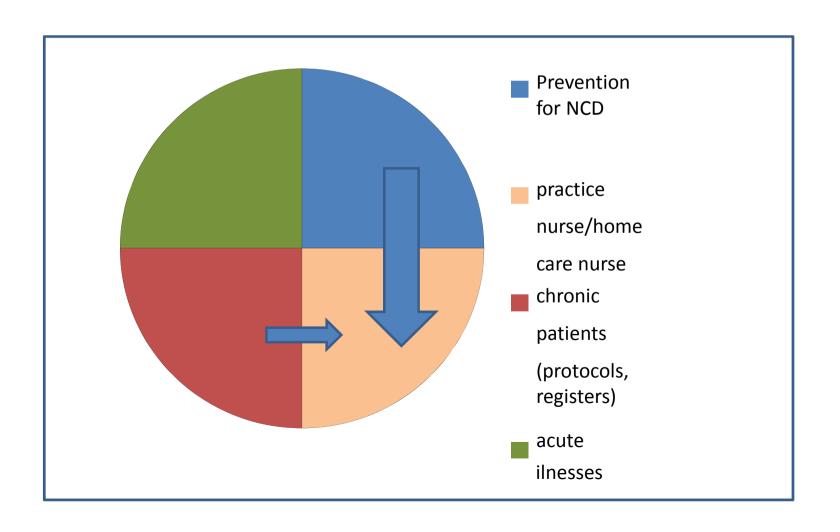
- To many patients a day visit a GP (≈ 50)
- Patients fail on very simple things: inappropriate lifestyle and therapy using, non-adherence, no self treatment, ...
- Practice nurses (diploma graduated nurses) can educate patients and takeover some workload in accordance with their competencies
- GPs/FPs will have more time for every individual patients
- implement systematic work: preventive screening, chronic patients management (protocols, registers)

# Team in FPs in CHC Ljubljana:



# Redistribution of work-load

FMP-team (GP + nurse + <u>0,5 FTE practice nurse (+ home care nurse)</u>)



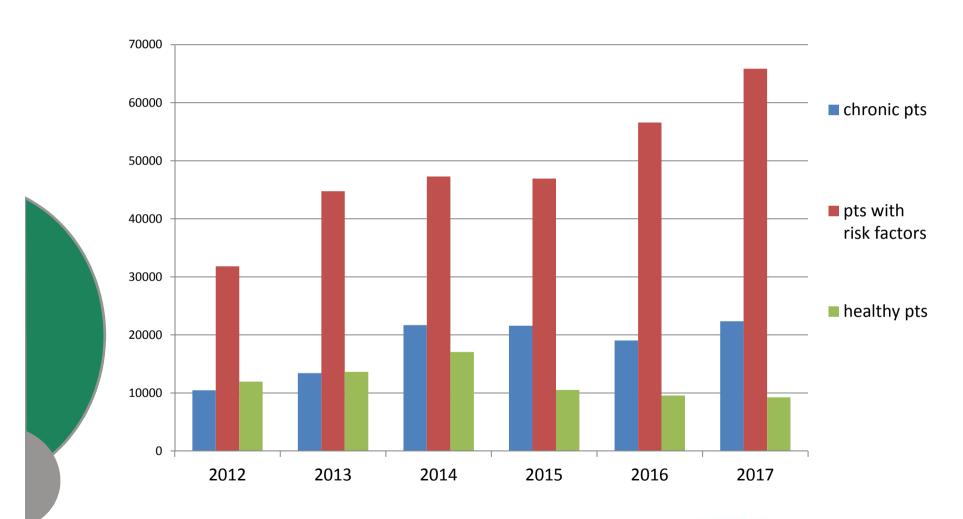
# What had to be done?

 Practice nurses: additional education (modules for 8 chronic diseases, moduls for preventive care and work organisation)

- Protocols for preventive screening
- Protocols for chronic patients treatment (instruction for both -GPs and practice nurses)
- Quality indicators



# Preventive screening: results





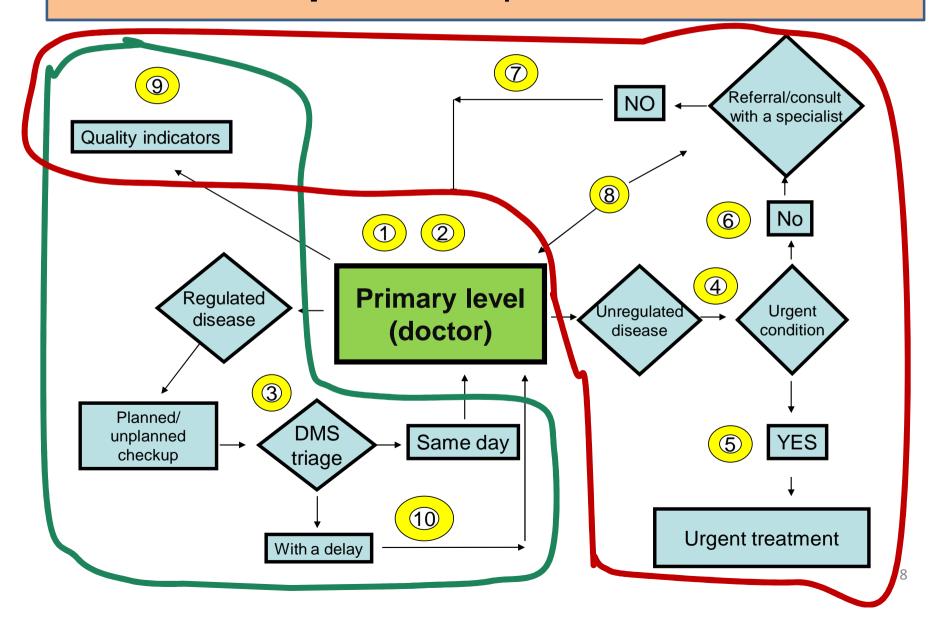
# Management of chronic patients

Protocols for 8 chronic diseases:

- Hypertension
- Diabetes
- Asthma
- COPD
- Coronary hearth disease
- Benign enlargment of prostate
- Osteoporosis
- Depression



# Chronic patients: protocols for GPs



# 10 parameters of protocol



- What to do/check at patient's regular visit
- Criteria of stabile disease
- 3 Frequency of regular (planned) patients visits
- 4 Criteria for emergency condition
- $\bigcirc$ Measures at the primary care level when referring to the emergency room
- Indications for referring to secondary / tertiary level (severe deterioration, 6. complications)
- How to manage acute deterioration of disease / poor regulation of disease at the primary care level
- 8. Communication pathway family physician-patient
- Quality indicators of treatment of a patient with chronic disease
- Medical instructions for diploma graduated nurse acting (protocols for diploma graduated nurse)



# Protocol for COPD managment – physician and practice nurse role

- What to do/check at patient's regular visit
- 2) Criteria of stabile disease
- Frequency of regular (planned patients visits

#### 2. COPD control criteria in a given past period:

- a. number and degree of COPD exacerbations,
- b. CAT.

#### 1. What to do when examining a patient with COPD?

- a. <u>Medical history</u>: physical fitness, appetite, weight loss, symptoms of depression, other COPD symptoms, past COPD exacerbations, smoking status, medical therapy, participation in the one-month pulmonary rehabilitation program; has the patient attended a COPD school or smoking cessation program? Patients complete the CAT questionnaire. To classify the disease into A/B/C/D they also complete the mMRC questionnaire (level of dyspnea).
- b. Laboratory investigations: none are done routinely.
- Physical examination: cyanosis, paleness, signs of heart failure, arrhythmias, blood pressure, body mass index, peripheral vascular pulse oximetry.
- d. <u>Classifying patients into appropriate spirometry category GOLD 1-4</u> (see attachment GOLD).
- e. Classifying patients into appropriate category ABCD (see attachment ABCD).
- f. Classifying patients in combined therapeutic category: GOLD + ABCD (for example GOLD 3, class B) due to medication prescription, rehabilitation or surgical therapy, evaluation of previously prescribed medication or other measures.
- g. <u>Annually</u>: spirometry, ECG, echocardiography (as needed). A family medicine doctor should check and keep this information, also if done by a pulmonologist.
- Inhaler technique should be assessed regularly either by a nurse or a doctor.
- Assess the patient's compliance to treatment ask patients to bring their unused medication with them.
- j. If on long-term oxygen therapy: who takes care of it, who and how often is this treatment monitored at home?
- Influenza and pneumococcal vaccination.

# Protocol for COPD managment – physician role

- Criteria for emergency condition
- Measures at the primary care level when referring to the emergency room

#### 4. Criteria for severe COPD exacerbation:

- a. History: severe dyspnea.
- b. <u>Phlysical examination</u>: vital signs, using accessory respiratory muscles, deterioration
  or presence of central cyanosis, peripheral edema, haemodynamic instability, signs of
  heart failure, somnolence, lethargy (an important sign of respiratory failure!).
- Spirometry. We do not use it because patients are usually tired and the reliability of measurements is low.
- d. <u>Pulse oximetry and arterial blood gas analysis</u> (secondary healthcare level) PaO2 <8.0 kPa and/or SaO2 <90 % with or without PaCO2 >6.7 kPa on room air means respiratory failure and is an indication for supplementary oxygen therapy and hence for hospitalization. In additional acidosis with pH <7.36 and hypercapnia, the patient is critically ill and may need mechanical ventilation.

- 5. Measures at the primary healthcare level in cases of severe COPD exacerbation and means of transport to the hospital:
  - a. Increase bronchodilator therapy, for example salbutamol or salbutamol in combination with ipratropium 1-4 breaths per hour.
  - b. Glucocorticoid 32 mg per os, supplemental oxygen therapy to increase SpO2 to 92 %.
  - c. Monitoring of vital signs.

# Protocol for COPD managment – physician role

6. Indications for referring to secondary / tertiary level (deterioration, complications) 8. Patien

8) Communication pathway family physician-patient

8. Patient – family doctor – pulmonologist communication pathways

a. Promote genuine and substantive cooperation between a family doctor and pulmonologists and not just referrals of patients.

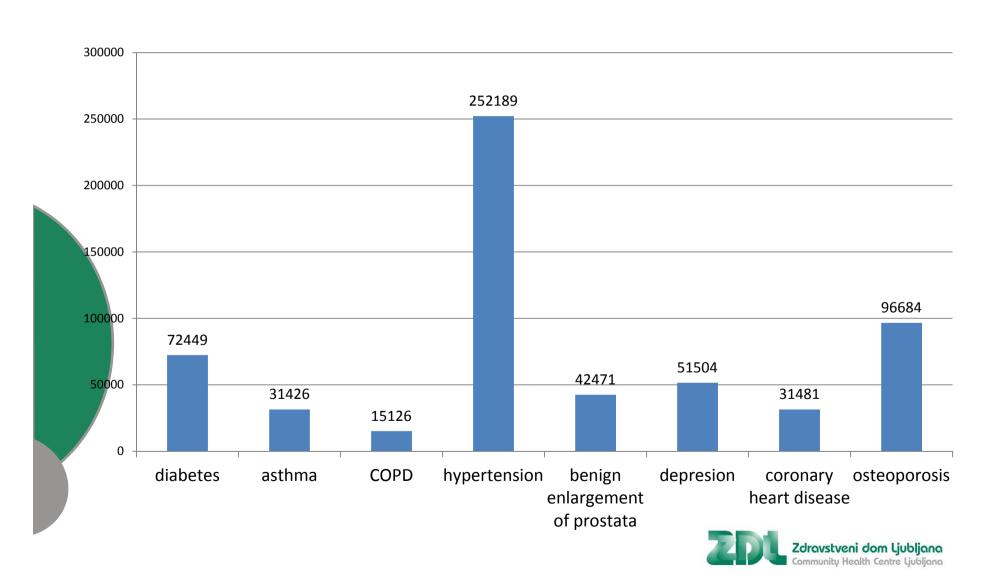
How to manage acute deterioration of disease / poor regulation of disease at the primary care level

#### 6. Consultation or referral to a pulmonologist

Based on the decision of the patient's family doctor, who knows the patient, in case of:

- a. sudden severe dyspnea (especially when present at rest),
- b. new respiratory failure or respiratory failure deterioration,
- c. signs of right heart failure,
- d. important co-morbidities,
- e. new heart rhythm disorders or
- f. failure of the initial, ambulatory treatment of COPD.

# Registers of chronic diseases 2017



# **COPD- work competencies PN: GP/FP**

### **Practice nurse (PN)**

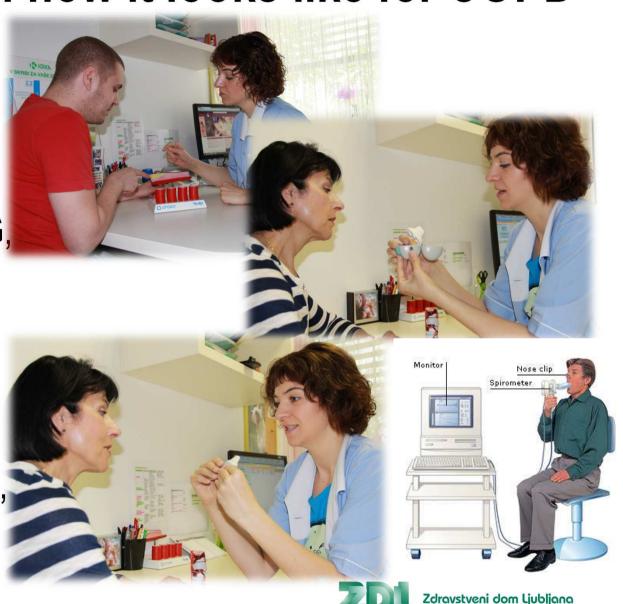
- systematic preventive examination of all patients over 30 years
- spirometry in all pts who smoke (and past smokers)
- regular yearly check-ups of COPD patients (incl spirometry, CAT, history, smoking sensation etc)
- spirometry in pts referred from the GP/FP
- referring unstable, deteriorated, non-compliant an those who demand examination to the GP/FP
- Health education/counseling

#### **GP/FP**

- **unstable** patients
- patients with acute worsening of COPD (dyspnoea + coughing +increased phlegm)
- patients referred from the practice nurse (i.e. unsatisfactory score on CAT)
- interpreting spirometry performed by the nurse
- multimorbid COPD pts
- Coordinates patients treatment
- Responsible for health outcome

## Practice nurse: how it looks like for COPD

- Anamnesis,
- Smoking status,
- Measurements,
- Spirometry, ECG,
- CAT,
- Therapy-how to use it?
- Vaccination?
- health education, counselling and guiding.



# What about GPs/FPs?

- Asses medical data/lab/measurements of "healthy" chronic patients taken by PN (cca 30% of pts are in phase of deterioration)
- provide clinical examination
- prolong or change the therapy (drugs are prescribed on yearly basis) and to refer pts
- They dedicate more time to a single chronic patients in deterioration or to acute diseases
- They lead a team and are responsible for patients health outcome



# Payment system

- General financing: fee for service and fee for capitation (50%:50%) (cca 148.000Eur per team/year, including lab tests)
- Allocation: to contractor (GP if concessionaire,
   Health Centre if public system)

Leader of the team: GP/FP!!



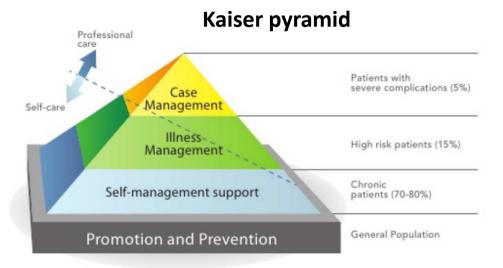
# Added value

- GPs/FPs know the (multi)morbidity and prevalence of chronic diseases of their own patients
- **Systematically** check ups (what, when, who, how often, ...)
- They achieve quality indicators ( conditions/ processes/ outcomes)
- Important!: patients DO NOT want to take drugs if not necessary -they like to be informed and self empowered



# Conclusion

- This comprehensive model of care links professionals horizontally and vertically and
- accent the responsibility of patients



Source :Integrated care models: an overview, WHO Europe 2016



## THANK YOU FOR YOUR ATTENTION!

