Time pressured deprioritization of COPD in primary care: a qualitative study

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Time pressured deprioritization of COPD in primary care: a qualitative study

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ABSTRACT

Objective: To identify factors that hinder discussions regarding chronic obstructive pulmonary disease (COPD) between primary care physicians (PCPs) and their patients in Sweden. Setting: Primary health care centres (PHCCs) in Stockholm, Sweden. Subjects: A total of 59 PCPs. Design: Semi-structured individual and focus-group interviews between 2012 and 2014. Data were analysed inspired by grounded theory methods (GTM). Results: Time-pressured patient–doctor consultations lead to deprioritization of COPD. During unscheduled visits, deprioritization resulted from focusing only on acute health concerns, while during routine care visits, COPD was deprioritized in multi-morbid patients. The reasons PCPs gave for deprioritizing COPD are: “Not becoming aware of COPD”, “Not becoming concerned due to clinical features”, “Insufficient local routines for COPD care”, “Negative personal attitudes and views about COPD”, “Managing diagnoses one at a time”, and “Perceiving a patient’s motivation as low”. Conclusions: De-prioritization of COPD was discovered during PCP consultations and several factors were identified associated with time constraints and multi-morbidity. A holistic consultation approach is suggested, plus extended consultation time for multi-morbid patients, and better documentation and local routines.

KEY POINTS

Under-diagnosis and insufficient management of chronic obstructive pulmonary disease (COPD) are common in primary health care. A patient–doctor consultation offers a key opportunity to identify and provide COPD care.

- Time pressure, due to either high number of patients or multi-morbidity, leads to omission or deprioritization of COPD during consultation.
- Deprioritization occurs due to lack of awareness, concern, and local routines, negative personal views, non-holistic consultation approach, and low patient motivation.
- Better local routines, extended consultation time, and a holistic approach are needed when managing multi-morbid patients with COPD.

Introduction

Chronic obstructive pulmonary disease (COPD) is a common and often undiagnosed cause of morbidity and mortality worldwide.[1] The prevalence of physiologically defined COPD in adults older than 40 years is approximately 9–10%.[2] The disease causes extensive suffering and adds substantial burden to national healthcare budgets, not least due to acute hospital admissions and years of disability.[3] Smoking cessation is the most effective intervention, while medication can ease the symptoms and prevent exacerbations.[4] An early diagnosis is important: it may motivate the patient to quit smoking, which is the only measure known to radically improve future prospects for the patient.[5] Under-diagnosis and insufficient management of COPD and its comorbidities are still common in primary health care, despite increased awareness of the disease among patients as well as primary care physicians (PCPs) and despite current diagnostic guidelines.[6–8] To narrow the gap between theory and practice, more studies are needed on the implementation of COPD guidelines in primary care practice.[9] Identifying barriers to implementation of guidelines is necessary for targeted interventions.[10] Previous
primary care research on COPD has indicated that PCPs generally experience conflicts between current guidelines and a patient’s individual needs. Thus, there have been suggestions regarding the development of guidelines tailored to the needs of primary health care.[11,12] Factors that affect PCPs’ adherence to guidelines for COPD have, to date, mainly been studied using surveys. The results from such surveys indicated low familiarity with current guidelines, difficulties in interpreting spirometry, time constraints, and therapeutic nihilism as possible factors behind poor implementation of COPD guidelines.[13,14]

Therefore, the aim of the study was to describe factors that hinder discussions concerning COPD between primary care physicians (PCPs) and their patients in Sweden. Results from this study could help achieve a deeper understanding of the barriers to providing high-quality care to patients with COPD.

Material and methods

A qualitative research method inspired by the grounded theory method (GTM), developed by Glaser and Strauss [15–18] as outlined in Hylander [18] and Charmaz,[17] was used to define and understand the underlying factors behind PCPs’ omission and deprioritizing of COPD. GTM is commonly used to generate a conceptual understanding (theory) from a bottom-up analysis of textual data.[15,16]

Settings and participants

In this study, data were collected through focus-group and individual interviews. Fifty-nine PCPs were recruited from 11 primary health care centres (PHCCs) in Stockholm, Sweden between 2012 and 2014.

Primary health care in Sweden

In Sweden, almost all primary care physicians (PCPs) are employed by primary health care centres (PHCC), which are run by the county councils, either directly or by contracting private companies. According to the policies of county councils, all PHCCs must provide the general population with certain primary care services that are carried out by PCPs and district nurses. Primary care rehabilitation units are often independently organized and managed separately from PHCCs. The remuneration system, accessibility to rehabilitation and secondary care units, local care traditions (for example, specialized nurse-led appointments for diabetes or COPD), and guidelines are examples of factors that influence working conditions for PCPs.

The Swedish PCPs tend to see fewer patients a day compared with many other countries due to a general tradition of managing multiple health issues during one consultation, which often can take up to 30 minutes. Ideally, each patient has an assigned PCP with whom he/she has consultations. However, a shortage of family physicians in Sweden results in employing many substitute physicians on short-term contracts, which, in turn, leads to discontinuity in the patient–doctor relationship.

In principle, there are two types of patient visits: (1) regular scheduled, routine care visits, which typically aim to investigate non-acute health issues. These include check-ups for chronic illnesses that take 20–30 minutes and often occur once or twice a year per patient; (2) urgent, unscheduled visits for acute health problems, which are more common, though shorter in duration, and patients are treated by the physician on call, i.e. they often do not get to see their assigned PCP.

Practically all employers in Sweden offer PCPs regular (monthly or weekly) continuing medical education (CME), which is given either by the authorities, non-profit organizations, or the pharmaceutical industry.

Selection of participants

The selection of participants was conducted as a theoretical sampling in accordance with GTM,[15] i.e. data were collected continuously and in parallel with data analyses. As rich data is an essential element in GTM, we intentionally, and pragmatically, selected the PHCCs and PCPs to achieve high heterogeneity. The PHCCs were located in urban or suburban, but not rural, areas of Stockholm with a variety of different demographic and socio-economic characteristics, as well as number of patients. Also, PHCCs both with and without a nurse-led asthma/COPD clinic were included. Participating PCPs worked both at ordinary PHCCs during office hours and at local emergency units after hours. Initially, 10 PHCCs were contacted by email, of which five agreed to participate in focus-group interviews. These groups and the participants in them were contacted one by one as the study proceeded, to fill in the gaps in the data. An example of theoretical sampling was including PCPs working in PHCCs that were located centrally as the analysis indicated that city-based PHCCs in geographic closeness to a hospital could affect how PCPs managed COPD.

All participants received information regarding the study prior to recruitment and only those with their manager’s formal permission to participate were included. In addition, only PCPs who were qualified specialists in family medicine (or close to being qualified) and had a permanent employment contract were
No compatible routine data for PCPs in Stockholm is available.

Working at PHCC with nurse based

Years in profession, median (range) 12.5 (1–39)

Years in profession, mean (SD) 14.0 (10.2)

The main background question, “Why are the COPD

were followed by specific questions. To find answers to

interview technique was used where open questions

with open questions was created. A semi-structured

themes on the interview guides were gradually nar-

mainly due to theoretical sampling of data, in which the

shorter the duration of the interview. The latter was

(interview came in the data-collection process, the

participants in the interviews or the farther along the

(ranging from 23 to 55 minutes). The smaller the number

The average duration of the interviews was 37 minutes

comparative analysis

Constant parallel data collection and comparative analysis

The average duration of the interviews was 37 minutes

ranging from 23 to 55 minutes). The smaller the number

of participants in the interviews or the farther along the

interview came in the data-collection process, the

shorter the duration of the interview. The latter was

mainly due to theoretical sampling of data, in which the

themes on the interview guides were gradually nar-

rowed down.

In accordance with GTM, an initial interview guide

with open questions was created. A semi-structured

interview technique was used where open questions

were followed by specific questions. To find answers to

the main background question, “Why are the COPD

guidelines not followed?”’, the participants were asked to
discuss the different clinical situations that would cover
the areas of interest. These situations are outlined in the
initial interview guide seen in Table 2. Examples of open
questions regarding clinical situations of interest were
“What makes you suspect COPD in a patient you meet?”,
or, “Tell us about the latest COPD patient you met”,
followed by specific questions, such as “Why did you choose
to do that with your patient?”. The interviewer
would then engage the rest of the group by asking,
“What do the others think of this? How would you have
acted in a situation like this?”. The open discussion
encouraged the participants to share their opinions,
standpoints, and experiences with each other, which led
to follow-up questions. In accordance with GTM,
the interview guide would gradually be developed to
go deeper into new or unresolved issues, as shown in
Table 2. The interviews were audiotaped and transcribed
verbatim.

Data collection and analysis were conducted in
parallel. A transcribed interview with the text in
Swedish was analysed by coding and categorizing the
data prior to the next interview, which determined the
direction of the follow-up questions, further data
collection, and analysis.

Data analysis was performed using open, focused, and
theoretical coding (constant comparison method). In
open coding every sentence was analysed line by line to
determine its meaning so as to generate substantial but
rudimentary labels; for example, “You really don’t expect
adherence to treatment from someone who has smoked
himself to COPD” was coded as “PCPs’ views on COPD”.
Focused coding involved a deductive analysis of prelim-
inary categories, leading to categories such as “Low
status of COPD among chronic diseases”. Finally, in
theoretical coding, more conceptual categories were
created, such as “Negative personal views and attitudes
regarding COPD” and the relationships between cate-
gories were analysed. This step-by-step coding method
gave rise to new interview questions. When categories
were deemed saturated and when no more new
categories or connections between categories were
found, a theoretical model to address the main research
question emerged to illustrate the core process.

The initial coding of each interview was carried out by
HS. The analysis was then further discussed whereby the
themes, categories, and additional interview questions
were agreed upon between the authors (HS, IH, SM, and
AN), of whom two have extensive experience and
knowledge in GTM. In addition, inter-professional dis-
cussions and academic presentations were carried out
during the process of data analysis to gain further
support and receive feedback.

No compatible routine data for PCPs in Stockholm is available.

Initially, five focus-group interviews (A–E) with four to
10 PCPs in each interview, were conducted by the first
author (HS). The interviews were scheduled to coincide
with the physicians’ ordinary, non-sponsored session for
CME to minimize the risk of including data only from
participants with a special interest in COPD. To conclude
the data collection, as described in the interview guides
(see Table 2), four more individual interviews (F–I)
and two focus-group interviews with seven and five
participants (J–K) respectively were conducted by HS.
The characteristics of all the participants are given in
Table 1.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Number</th>
<th>Mean</th>
<th>Median</th>
<th>%</th>
</tr>
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<tbody>
<tr>
<td>Gender, n = 59</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Men</td>
<td>30</td>
<td>51</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>Women</td>
<td>29</td>
<td>49</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>Educational degree, number n = 59</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specialist in Family Medicine</td>
<td>40</td>
<td>68</td>
<td>68</td>
<td></td>
</tr>
<tr>
<td>Non-specialist in Family Medicine</td>
<td>19</td>
<td>32</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Age, mean (SD)</td>
<td>45.5 (10.5)</td>
<td>44 (28–68)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Years in profession, median (range)</td>
<td>14.0 (10.2)</td>
<td>12.5 (1–39)</td>
<td></td>
<td></td>
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<tr>
<td>Working at PHCC with nurse based</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>asthma/COPD clinic, number n = 59</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>45</td>
<td>76</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>14</td>
<td>24</td>
<td>24</td>
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</tbody>
</table>

Table 1. Characteristics of the primary care physicians (PCPs) who participated in the interviews concerning discussions about COPD in patient consultations (n = 59).
Table 2. The gradually developed interview guides in chronologic order (I–VI) for the semi-structured interviews (A–K) for exploring the factors that influence PCPs’ level of prioritizing of COPD in a consultation.

<table>
<thead>
<tr>
<th>I Initial interview guide, focus group interviews A–B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Opening question: Clinical situations of COPD</td>
</tr>
<tr>
<td>Tell me about one of your COPD patients you particularly remember.</td>
</tr>
<tr>
<td>2. Further questions: Clinical situations of COPD</td>
</tr>
<tr>
<td>How would you describe a typical patient with COPD?</td>
</tr>
<tr>
<td>When do you suspect COPD?</td>
</tr>
<tr>
<td>Tell me about difficulties or dilemmas you face when managing patients with COPD.</td>
</tr>
<tr>
<td>Tell me about a case where you felt you provided successful COPD care.</td>
</tr>
<tr>
<td>3. COPD guidelines</td>
</tr>
<tr>
<td>What are your views on current guidelines?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II Further developed interview guide, focus group interviews B–C</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. As 1–3 above</td>
</tr>
<tr>
<td>5. Factors possibly connected with poor adherence with COPD guidelines according to interviews A–B</td>
</tr>
<tr>
<td>Detection of COPD</td>
</tr>
<tr>
<td>What factors are important for you to proceed with further examination when you suspect COPD?</td>
</tr>
<tr>
<td>How does a previous knowledge of COPD affect your management?</td>
</tr>
<tr>
<td>COPD medications</td>
</tr>
<tr>
<td>What do you think when choosing a medication for treating COPD?</td>
</tr>
<tr>
<td>Patient motivation for COPD care</td>
</tr>
<tr>
<td>How do you think COPD affects the patient’s everyday life?</td>
</tr>
<tr>
<td>What do you think is the patient’s view of COPD?</td>
</tr>
<tr>
<td>How do you work together with the patient towards a better adherence to treatment?</td>
</tr>
<tr>
<td>Type of patient visit</td>
</tr>
<tr>
<td>How do you manage COPD if the patient comes on a regular or routine care visit, i.e. “yearly COPD check-up”?</td>
</tr>
<tr>
<td>How do you manage COPD if the patient comes on a regular or routine care visit, i.e. “yearly general check-up”?</td>
</tr>
<tr>
<td>How do you manage COPD if the patient comes on an urgent or unscheduled care visit due to acute airway problems?</td>
</tr>
<tr>
<td>Local structure for COPD care</td>
</tr>
<tr>
<td>What routines do you have for COPD at your PHCC?</td>
</tr>
<tr>
<td>How do the routines (or lack thereof) affect your management of COPD?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>III Further developed interview guide, focus group interviews D–E + individual interview F</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. As 4–5 above</td>
</tr>
<tr>
<td>7. Difficulties in patient–doctor encounter considering COPD</td>
</tr>
<tr>
<td>How do you discuss smoking with a patient with COPD?</td>
</tr>
<tr>
<td>Tell me about what can happen in an encounter with a patient who disagrees with the treatments you suggest.</td>
</tr>
<tr>
<td>What kind of personal views do you have on COPD and smoking?</td>
</tr>
<tr>
<td>What other difficulties or obstacles are there for discussing COPD?</td>
</tr>
<tr>
<td>8. The role of other care providers in COPD care</td>
</tr>
<tr>
<td>When do you refer to secondary care?</td>
</tr>
<tr>
<td>Who is responsible for a COPD patient that, in addition to you, is in contact with a pulmonary specialist or other care providers?</td>
</tr>
<tr>
<td>9. Follow-up of given COPD care</td>
</tr>
<tr>
<td>How do you keep in touch with your patient?</td>
</tr>
<tr>
<td>What makes you arrange a follow-up visit?</td>
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</table>

<table>
<thead>
<tr>
<th>IV Further developed interview guide, individual interviews G–I</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. Opening question: Clinical situations of COPD involving multi- and comorbidity</td>
</tr>
<tr>
<td>Try to think of yourself meeting with a patient with multiple conditions, of which COPD is one of them. Tell me about how you manage a patient like that.</td>
</tr>
<tr>
<td>11. Multi-morbidity</td>
</tr>
<tr>
<td>What do you think about COPD in relation to other morbidities?</td>
</tr>
<tr>
<td>How do you prioritize different diseases during an encounter with a patient?</td>
</tr>
<tr>
<td>What is important and/or difficult about COPD in a multi-morbid patient?</td>
</tr>
<tr>
<td>12. Local structure for COPD care</td>
</tr>
<tr>
<td>As in 5 above</td>
</tr>
<tr>
<td>13. Attitudes and views regarding COPD and patients with COPD</td>
</tr>
<tr>
<td>What is your personal attitude towards smoking and COPD?</td>
</tr>
<tr>
<td>How do you think society's view on smoking and COPD as a self-inflicted disease affects the COPD care you provide?</td>
</tr>
<tr>
<td>14. Patient motivation for COPD care</td>
</tr>
<tr>
<td>How does the patient’s motivation to receive COPD care affect you?</td>
</tr>
<tr>
<td>How do you handle a situation in which you and your patient have clearly different views and goals about COPD care?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>V Further developed interview guide, focus group interview J</th>
</tr>
</thead>
<tbody>
<tr>
<td>15. As 10–11 above</td>
</tr>
<tr>
<td>16. Consultation technique as a factor in managing COPD</td>
</tr>
<tr>
<td>Holistic vs. disease-oriented approach</td>
</tr>
<tr>
<td>Tell me what happens during a consultation with a COPD patient who also has other medical conditions, e.g. a multi-morbid patient?</td>
</tr>
<tr>
<td>How do you balance the interests of your patient and yourself?</td>
</tr>
<tr>
<td>How do you handle a patient who is unmotivated to quit smoking or disagrees with the treatment you suggest?</td>
</tr>
<tr>
<td>17. Early detection of COPD</td>
</tr>
<tr>
<td>The effect of a patient’s age</td>
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<tr>
<td>How does the age of the patient affect your managing of COPD?</td>
</tr>
<tr>
<td>18. The role of other care providers in COPD care</td>
</tr>
<tr>
<td>“My patients vs. other doctor’s patients”</td>
</tr>
<tr>
<td>How do you plan for further care and follow-up for patients that normally see you, and for those who normally see some other doctor?</td>
</tr>
<tr>
<td>What is the role of pulmonary specialists in the care of your COPD patients?</td>
</tr>
<tr>
<td>VI Further developed interview guide, focus group interview K</td>
</tr>
<tr>
<td>19. Discussion on a presentation of a preliminary model of the study results</td>
</tr>
</tbody>
</table>

The main themes are listed as 1–19, including examples of intended questions in italics. The open discussion contributed to several follow-up questions that are not included in this table.
Results

The main concern of the 59 interviewed PCPs from 11 PHCCs is their “difficulty to prioritize COPD in the limited time available”, i.e. PCPs prioritize either one urgent medical issue or one out of many diagnoses in a multi-morbid patient, thus neglecting detection and long-term management of COPD. Hence, the core process Prioritizing under time pressure leads to Deprioritization of COPD. The theoretical model explaining the process of omission or deprioritization of COPD at a patient–doctor encounter is shown in Figure 1. Omission or prioritizing depends on six factors, i.e. main categories: (1) awareness of COPD, (2) clinical picture, (3) local support, (4) personal views, (5) consultation approach (managing diagnoses one at a time or using a holistic consultation approach), and (6) patient motivation. Each main category includes aspects that explain the process of omission or deprioritization of COPD. Each main category is described below, including examples of quotations.

Prioritizing under time pressure when meeting COPD patients

“Time pressure” is identified as an immediate consequence of the working conditions at the time of consultation. Urgent visits occur both at the PCP’s regular PHCC and at local emergency units. PCPs experience time pressure when they encounter either many patients with one urgent medical issue (urgent, unscheduled visits), or one patient with many medical issues, i.e. multi-morbidity (regular, routine care visits):

The consultation time is limited and there might be something else of a higher priority that needs to be taken care of sooner. (G)

Besides time pressure, the unscheduled visits are characterized by poor prior knowledge of the patients’ medical history:

You have to keep up the pace. You don’t have time to think. (F)

If you have 20 more sitting in the waiting room, coughing … it’s like, “Come back if it doesn’t get better!” (B2)

During regular, routine care scheduled visits, patients present with either considerable multi-morbidity or COPD comorbidity. Again, the PCPs report frustration due to time constraints:

I feel there’s not enough time. COPD is rarely the only reason for the visit, it is a secondary reason. (E9)

Regular check-ups for COPD only are considered as rare:

They have multiple conditions. They never come only for COPD. I can count on one hand those who only have COPD. (G)

Thus, there is always time pressure during COPD patient visits, which leads to the main concern: “Difficult to prioritize COPD in the limited time available”.

Awareness of COPD

Not becoming aware of COPD leads to direct omission. If COPD is not documented in the medical record or mentioned by the patient, or if another issue is referred to as the reason for the visit, COPD is likely to be omitted, even though a patient may be at risk of COPD or presents with clinical findings of airway dysfunction:

But if the diagnosis isn’t there – even if I see the patient being a bit breathless when she comes with her walker – I might still forget it. There are so many other things to talk about. (F)

During urgent, unscheduled visits, patient history can give PCPs information on whether the patient has COPD or is at risk of developing the disease, which would affect the choice of future therapy and follow-up, but this is not likely to happen if COPD is not mentioned. Likewise, the complexity of handling multi-morbidity under time pressure contributes to omission of COPD, if it is not mentioned.

Prioritizing based on clinical picture

When PCPs do not become concerned due to clinical features COPD is deprioritized. Possible COPD in younger and middle-aged patients, smokers, and those with mild or moderate symptoms is, in general, not discussed.

If COPD hasn’t been troubling the patient in any special way throughout the years, I tend to forget about it. (G)

It depends on how bad it looks. I mean, if you suspect a mild COPD, then there’s no hurry. (A5)

By contrast, for possible COPD in older smokers with frequent respiratory infections and signs of severe airway obstruction, COPD is typically discussed. The overall assessment of the clinical picture influences decisions, therapy, and follow-up. Lack of concern about COPD leads to lack of action and provision of therapy.

Prioritizing based on local support

If the local routines for COPD care are insufficient, COPD is deprioritized. Routines on structured COPD care based on current guidelines, special nurse-led COPD
appointments at the PHCC, and easy access to pulmonary rehabilitation are examples of local support that increases PCPs’ competence and commitment, and encourages them to include COPD in the discussion agenda. Thus local support or “local culture” is often the determining factor for prioritizing of COPD. Without local support COPD is likely to be deprioritized:

Management and activity depends on accessibility of investigation facilities and reliability of the spirometries. If that’s the case [at your health care centre] then you are willing to proceed. Otherwise, it’s such a huge project, with referrals everywhere. (K5)

**Prioritizing based on personal views**

Deprioritization of COPD is affected by negative personal attitudes and views concerning the disease. Clearly, the PCPs hold different personal opinions of different diseases. Some PCPs are critical about smoking and thus consider COPD as a self-inflicted disease and an unpleasant issue to talk about. Negative personal views of COPD may lead to placing a lower priority on COPD when compared with other diseases or COPD comorbidities, such as heart disease and diabetes:

If you are thinking “dyspnoea” you need to make a rough assessment of whether you think it is the heart or the lung. You might then choose the heart before the lung. (B2)

I’m pretty sure we take care of patients with diabetes a bit better. Although I can’t say why. It is a bit more accepted disease. (B3)

In addition, a feeling of helplessness regarding treatment and low expectations of a patient’s adherence to treatment lead to deprioritization:

Why isn’t COPD managed by the recommendations? Because it has such a low status. No one wants to
mention it. It is boring to even say the name of the disease... You really don’t expect adherence to treatment from someone who has smoked himself to COPD. That’s probably why you don’t refer or treat them. (A2)

This may raise the question of whether to inform or protect the patient from this “bad diagnosis”:

Does this woman who has quit smoking have any use in knowing it is COPD? I mean, she has chronic symptoms, but why give her a chronic diagnosis that is just bad news. Has she any use for it? Has she any use for having that sticker on her? (I)

In contrast, PCPs who have a neutral or a positive attitude towards COPD and, thus, consider it just as important as other lifestyle-associated chronic diseases, sympathize with the patients and firmly believe that the patients should receive help:

I have seen so many other types of patients who live miserable lives, either self-inflicted or because of other things... I mean, I’m not the police here! (I)

Prioritizing based on consultation approach
Managing diagnoses one at a time rather than altogether by a holistic consultation approach leads to near lack of action and deprioritization of COPD, especially when coupled with PCPs’ negative views about COPD:

I always feel there are so many issues! And there are more and more things coming up all the time.... Sleeping problems, a skin problem, and.... It is the GP’s job! Classic! And then I feel I need to exclude COPD. (H)

In the case of multi-morbidity, unless airway symptoms are clearly prominent, PCPs usually run out of consultation time before COPD is even mentioned. Lack of objective measurements, i.e. laboratory tests, can lead to difficulties in monitoring COPD or having discussions about it:

What the hell can you check? You’ve given them medicines with modest effects ... what should I look for? (C3)

By using an approach where the diagnoses are managed one at a time the PCP reduces his/her workload simply by ignoring COPD:

The down side is that it increases my workload... Instead of discussing smoking, referring to spirometry and planning for follow-up, I just write a prescription for antibiotics. Thank you, and goodbye! It goes much faster. (E1)

On the other hand, PCPs who use a holistic consultation approach include COPD in the discussion. Open questions encourage the patient to take part in the discussion. This way, PCPs can form a broad picture of a patient’s well-being, symptoms, and core concerns and, consequently, this may lead to relevant discussions about COPD.

I usually bring up [COPD] from the context of what the patient feels, what he experiences. They usually don’t think, “I have COPD”... So I try to put the symptoms and the diseases into a context that I can explain to the patient. (H)

In the case of an urgent visit, PCPs may get the opportunity to detect COPD early.

Prioritizing based on patient motivation
Perceiving the patient’s motivation as low is an important aspect of COPD deprioritization. Irrespective of the type of consultation approach, most PCPs nowadays use a patient-centred approach, which is wrongly regarded by some as an approach whereby the patient only who decides what is to be discussed. PCPs feel that the patient’s agenda reflects the patient’s level of motivation to receive COPD care, hence determining the course of the discussion during consultation. According to the PCPs, patients rarely initiate discussions about COPD due to lack of motivation for smoking cessation or other treatment options, because they find other health issues more important or because they seem content with their respiratory health:

Most of the times it is the patient who decides. I don’t think it is us doctors who prioritize it. The patient has his questions, and no matter if it’s supposed to be a check-up for hypertension or heart failure, the patient might want to discuss something completely different, anyway. And we need to let them do that. We cannot be robots who force them into a form. (C7)

The patients are often perceived as having a bad conscience and feel guilty for having COPD:

They rarely bring it up, actively. I think many of them have a bad conscience. They harbour their own anxiety. (E1)

There’s a lot of guilt, I would think. (E8)

However, if patients show interest or worry regarding a severe airway disease, like lung cancer or COPD, they are perceived as motivated and consequently COPD is discussed during a consultation:

I am more active when the patient comes to me because of his symptoms, not just because I think I see symptoms. (I)

Discussion
Statement of principal findings
In this qualitative study of 59 PCPs from various PHCCs in Stockholm, we found that PCPs who work under time...
pressure find it difficult to prioritize COPD in the limited
time available. We developed a theoretical model that
shows how time pressure leads to omission or deprior-
itization of COPD during consultation in primary health
care. The model describes six main categories to explain
omission or deprioritization of COPD. In our model, direct
omission of COPD is a consequence of not becoming
aware of the diagnosis. Deprioritization is due to not
becoming concerned about the clinical picture of COPD,
insufficient local routines for COPD care, the PCP’s
negative personal views about COPD, consultation
approach (managing diagnoses one at a time instead
of a holistic consultation approach), or low perceived
motivation on the patient’s part.

**Strengths and weaknesses**

The use of GTM strengthens this study as it allows the
systematic analysis of raw data and reduces the
influence of preconceptions in questionnaires and sur-
vveys. The results are well grounded due to collecting
data via both individual and focus-group interviews. The
quality of the interviews was considered sufficient due to
an appropriate balance between adherence and freedom
in terms of following the interview guides. The
guides had a “red line” throughout their development
process, and consisted of constructive, open questions
with detailed answers. However, there may be bias in
this study introduced by interviewing established
groups of participants, hence small variations in the
answers due to personal familiarity and existing hier-
archies, rather than randomly selected ones. We tried to
minimize the bias by ensuring that all participants
received the same information prior the interviews. In
addition, the relatively large number of focus groups in
this study may, in part, have minimized the bias. Also, as
the interviewed PCPs openly talked about not following
the guidelines, the existing hierarchies within the focus
groups were not considered to have a dominant
significance. As the results clearly revealed negative
attitudes and passiveness towards COPD, we can assume
the groups did not only consist of PCPs with a special
interest in COPD.

The data were processed continuously by compara-
tive analysis. Undue and unintended bias and precon-
ceptions from the highly experienced researchers was
minimized by inter-professional discussions and aca-
demic presentations. The final analysis was carried out
mainly by four of the six authors, namely three PCPs and
a researcher with long experience in GTM. The fairly high
number of participants in our study, all with a well-
defined profession and uniform working conditions,
could render our model applicable to other similar
contexts given that appropriate adjustments are made. It
is worth pointing out that, though well grounded in
data, GT can never be transferred to a new context
without trying the fit in that particular context.

By having included rural and/or insufficiently staffed
PHCCs, we may have potentially identified additional
factors that affect COPD management in Sweden,
though this needs to be studied separately.

**Findings in relation to previously published work**

The Theoretical Domains Framework (TDF), an overarch-
ing theoretical framework on behaviour change in health
care professionals, has been developed to provide a conceptual basis for exploring problems,
explaining, designing interventions, and understanding behaviour-change processes in the implementation of evidence-
based care.[19] The six categories in our theoretical
model are consistent with some of TDF’s key 12
domains for behaviour change, namely “Beliefs about
Capabilities”, “Beliefs about Consequences”, “Motivation
and Goals”, “Environmental Context and Resources”, and
“Emotion”. However, the domains expressing physicians’
knowledge, skills, memory, and attention were not
considered as major factors in our study. On the other
hand, Organizational Readiness for Change (ORC),
another well-known and key theoretical concept in
implementation processes, is clearly supported by our
findings. ORC is used to express and assess the collective
motivation of the members of an organization as well as
their capability to implement change. Our results high-
light the importance of locally organized COPD care in
prioritizing COPD, preferably within the same PHCC.
Examples of such care include nurse-led COPD clinics
and pulmonary rehabilitation units.[20]

Previous survey studies have shown that time con-
straints were one of the main reasons for poor adher-
ence to COPD guidelines.[13] Our study not only
confirmed this but, due to our qualitative approach,
also added a new dimension to the research question: Is
COPD discussed at all during consultation?

An obvious prerequisite for discussing COPD is to
become aware of the disease. The absence of typical
clinical features adds on to omission or deprioritization of
COPD. “Patient’s delay” has been mentioned in earlier
research into adaptation to symptoms, lack of aware-
ness, and a feeling of being “not worthy”. [21,22] To
avoid delays in COPD detection, PCPs should pay close
attention to middle-aged patients, smokers, and patients
with respiratory infections.[23] They should also be
vigilant about common non-airway symptoms, possibly
originating from COPD comorbidities, such as heart
disease, pain disorders, depression, and weight
problems. A routine use of validated questionnaires such as the COPD Assessment Test (CAT) [24] and the Clinical COPD Questionnaire (CCQ) [25,26] should be encouraged for monitoring the disease.

Lacking local support, such as specialized nurse-led appointments and local guidelines, leads to deprioritization of COPD. Previous research has shown that locally organized interdisciplinary care contributes to easily accessed and cost-effective quality care for COPD patients.[27] Recent Swedish studies have shown improvements in COPD care at PHCCs with nurse-led COPD appointments, not least due to increased level of guideline adherence by PCPs.[28] Difficulties with interpretation of the spirometry results have previously been suggested as an obstacle for active COPD care.[13,14] Interestingly, this aspect was not even mentioned by the interviewed PCPs as a reason for deprioritization of COPD.

Johnson et al. have previously described how negative attitudes towards COPD correlate linearly to fewer referrals for pulmonary rehabilitation.[29] Similarly, our study suggests that negative attitudes, due to frustration over non-effective COPD medications and failure to convince patients to quit smoking, hinder discussions about COPD. A recent French study revealed that many PCPs consider COPD as “boring”, which hampers their management of the disease.[30] Our study indicates that, in Sweden, there are differences in PCPs’ attitudes towards lifestyle choices, such as smoking. This is an example of deeply rooted personal views that may be difficult to change.[31]

In a recent Norwegian study, an average of three problems were presented in a non-urgent patient consultation in primary care.[32] At the same time, research indicates that PCPs find it challenging to establish a good dialogue and prioritize multiple diagnoses within the timeframe of a normal consultation.[33] By managing diagnoses one at a time many PCPs deprioritize COPD and then fail to recognize the impact of COPD on patients’ health.[34] With its many comorbidities [7] and a multifold impact on both patients and their families,[35] COPD may be better managed by using a holistic approach.[36] The latter concerns the very definition of general practice: the importance of a multi-faceted approach to improve health and manage illness.[37]

Prioritizing based on patient motivation is the most critical factor behind deprioritizing COPD. Previous research has shown that many patients with COPD develop pressure-filled mental states such as feeling fearful, criticized, pressured, and not worthy when trying to quit smoking or when refusing pulmonary rehabilitation.[22,38] Bearing in mind that patients with COPD often feel ashamed and experience stigmatization due to society’s view of COPD as a self-inflicted disease,[39,40] it is important for health professionals to pay close attention to how they communicate COPD and smoking cessation to patients. The “patient-centred approach” has been proposed to include six dimensions: exploring both the disease and the illness experience, understanding the person as a whole, finding common ground, incorporating prevention and health promotion, enhancing the patient–doctor relationship, and being realistic.[41] This communication approach has previously been shown to increase the chances of providing satisfactory care,[42] hence, it has become a natural model for an optimal consultation in modern health care. However, our results indicate that PCPs may have misinterpreted the principles of the “patient-centred approach” to the extent where the patient’s agenda dominates during a consultation and the PCP’s medical assessment is not given priority – in other words, the PCPs may have resigned from their role as an expert in COPD. To actively communicate COPD is especially important as patients may tend to avoid bringing up COPD due to shame, guilt, and a low motivation for receiving COPD care. Additionally, lack of initiative on the part of a physician may result in negative long-term consequences for patients with underlying COPD. By taking a non-judgemental standpoint to smoking, PCPs may help decrease the stigma and increase the patient’s motivation to receive treatment for COPD.[43]

**Meaning of the study**

The results of our study may contribute to a constructive dialogue between policy-makers and medical professionals, as a strong organization and sufficient financing are prerequisites for high-quality and cost-effective management of chronic, multi-morbid conditions like COPD.[44]

The current clinical guidelines for single diseases tend to favour polypharmacy and offer no guidance on prioritizing recommendations for multi-morbid patients.[45] By improving PCPs’ and medical students’ understanding of the impact of COPD in a multi-morbid patient, a holistic treatment approach tailored to the needs of individual patients could be possible. The results of our study have been integrated in an educational programme for Swedish PCPs. The programme focuses on multi- and comorbidity, holistic consultation, local routines, and patient motivation. We will assess its impact on both patients and PCPs.

**Conclusion**

We discovered deprioritization of COPD during PCP consultations and identified several factors associated
with time constraints and multi-morbidity. We suggest a holistic consultation approach, extended consultation time for multi-morbid patients and better documentation and local routines.

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Ethical approval

The study was approved by the Regional Ethical Review Board of Stockholm (ref 2011/731-31/1). Written consent was obtained for all PCPs and their managers.

Disclosure statement

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