## INTERYem

## Abstracts compilations of

Family Medicine Conference
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## MONASH University

## Medicine, Nursing and Health Sciences

'Principles of improving primary care services'

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| Where is the roadmap? <br> - Alma-Ata <br> - Evidence <br> - Theory to practice (personal view) <br> - It is a long road started many years ago... | PRIMARY HEALTH CARE <br> USSR-ALMA-ATA 1978 <br> The Alma - Ata conference 1978 <br> "Primary health care is the key to improving health and reducing inequalities." |
| :---: | :---: |
| The challenge of Alma - Ata <br> "Are you ready to introduce, if necessary, radical changes in the existing health delivery system so that it properly supports [primary health care] as the over-riding health priority?" <br> Are you ready to fight the political and technical battles required.... | The Alm-Ata declaration <br> Panel: Key principles of the Declaration of Alma-Ata (1978) <br> 1 Health is a state of complete physical, mental, and social wellbeing, not simply the absence of disease, and is a human right. <br> 2 Economic and social development is fundamental to health and health equity, and, thus, action across sectors-not just the health sector-is required. <br> 3 Primary health care is key to realising the right to healthit is essential health care is made universally accessible to individuals and families in the community through their full participation and at a cost that the community and country can afford. <br> 4 Primary health care should be sustained by integrated and functional systems, leading to progressive improvement of comprehensive health care for all, and prioritising those most in need. |
| Selective or comprehensive primary care? | The momentum built <br> USA 2001 <br> World Health Organisation 2008 |
| Starfield's 4 pillars of quality primary <br> - Continuity <br> - Comprehensiveness <br> - Coordination / Integration <br> - Access to care | Starfield's 4 pillars of quality primary care |



https://www.sciencedirect.com/science/article/abs/pii/S0140673608614 038

- Chronic disease
https://www.sciencedirect.com/science/article/abs/pii/S0140673608614 04X
- Impact on health outcomes
- https://journals.lww.com/ambulatorycaremanagement/Abstract/20

09/04000/The_Impact_of_Primary_Healthcare_on_Population.10. aspx


| Burden of disease <br> Figure 9: Top-10 single couses of death for persons 2012, $N=528,947$ |  |
| :---: | :---: |
| District health services | Health reforms <br> National <br> Communityhealth orientated insurance primary care <br> District clinical specialist <br> Family teams physicians |
| Why did South Africa recognize family medicine? <br> - Strong advocacy from the discipline <br> - Clear skills gap at district hospitals <br> - Poor quality in primary health care | Roles of family physicians in the health system |


| Placement of the family physician in the health system | Training of family physicians <br> - Nine university based training programmes (MMed degree) <br> - Four year training programme <br> - Accredited training complexes in district health services <br> - National learning outcomes and set of skills <br> - National workplace based portfolio of learning <br> - Coordination of training by Academy of Family Physicians <br> - National Fellowship examination under College of Family Physician |
| :---: | :---: |
| Training of family physicians <br> Five unit standards: <br> 1. Leadership and clinical governance <br> 2. Whole person medicine <br> 3. Community orientated primary care <br> 4. Teaching and training <br> 5. Ethics and professionalism | Educational resources <br> SOUTH AFRICAN ACADEMY OF FAMILY PHYSICIANS |
| Other training in family medicine <br> PG Diploma in Family Medicine Bachelor of Clinical Medical <br> - 2-years <br> - Upskilling and re -orientating primary care doctors <br> Undergraduate training in family medicine <br> Internship rotation in family <br> - Exposure over 6-years medicine <br> -6-months |  |
| Family Meiticine Practitioners in South Africa (N=1247) Demographic Profite | Pipeline of new family physicians |


| Density of family physicians | Impact of family physicians on the health system |
| :---: | :---: |
|  |   <br> Figure 1: Impact of family physicians on scale from 0-4 <br> Figure 2: Impact of family physicians relative to medical officers on scale from 0-5. |
| Future of family physicians in the health system <br> - One family physician for every district hospital <br> - One family physician for every community health centre / sub-district <br> - Supportive human resources for health policy - posts <br> - Supportive financing policy - private sector and national health insurance <br> - Increasing evidence base for contribution - PHCFM journal <br> - Regional support and networking - Primafamed, WHO | African Primary Health Care and Family Medicine Journal |
| Primary Health Care Research Consortium | Bibliography <br> - Tiwari R, Mash R, Karangwal, Chikte U. A human resources for health analysis of registered family medicine special ists in South Africa: 2002-19. Family Practice. 2020 Sep $11: 1 / 7$. <br> specialists in South Africa: 2002-19. Family Practice. 2020 Sep 11;1:7 . <br> - Mash R, Von Pressentin K. Strengthening the district health system through family physicians. South African Health Review 2018; 2018:33-39. <br> Health Review 2018; 2018:33-39. <br> - Von Pressentin K, Mash R, Baldwin-Ragaven L, Botha R, Govender I, Steinberg W, EsterhuizenTT. The Influence of Family Physicians Within the South African District Health System: A CrossSectional Study Influence of Family Physicians Within the South A ANNALS OF FAMILY MEDICINE 2018; 16(1):28-39. <br> - Von Pressentin K, Mash R, Baldwin-Ragaven L, Botha R, Govender I, Steinberg W, EsterhuizenT. The perceived impact of family physicians on the district health system in South Africa: a crosssectional perceived impact of family physicians on the district health system in South Africa: a crosssectional survey. BMC Family Practice 2018; 19(24):1-10. <br> - Von Pressentin K, Mash R, Baldwin-Ragaven L, Botha R, Govender I, Steinberg W. The bird's eye perspective: how do district health mannagers sexperience the impact of family physicians within the South African district how do district tealth managers experience the impact of family physicians within health system? A qualitative study. South African Family Practice 2018; $60(1): 13-20$. <br> - Akoojee Y, Mash R. Reaching national consensus on the core clinical skill outcomes for family medicine postgraduate training programmes in South Africa. African Journal of Primary Health Care and Family Medicine 2017; 9 (1):1-8. <br> - Von Pressentin K, Mash R, Baldwin-Ragaven L, Botha R, Govender I, Steinberg W. The bird's eye perspective: how do district managers experience the impact of family physicians within the South African district health system: a qualitative study. South African Family Practice 2017; 4(1):1-8 |

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## Family Medicine in Yemen :Thoughts for Future



## Outline of Presentation

- Sharing vision about PHC/FM/GP
- Setting the scene of Health Sector in Yemen
- Roles Played by PHCPs in Yemen (5-starDoctor)
- Futuristic View for Happy Yemen


## Sharing vision

## vint

| Sharing vision Primary Health Care !! |  |  |
| :---: | :---: | :---: |
| Before 1978) | Alma Ata Conference (19 | After Alma Ata <br> 8) Conference (1978) |
| Lack of health <br> services in some <br> areas  <br> a Duplication / <br> Inaccessibility in <br> others.  <br> a dissatisfaction with <br> the existing health <br> services.  <br> aWHO Assembly  <br> agreed upon HFR  <br> 2000  | Accept the WHO slogan of HFA by 2000. <br> - Adopting PHC Approach to achieve HFA. <br> - PHC, Principles and Elements have been defined clearly | Other principles/ elements were added to PHC <br> $\square$ Multiple revision to Recommendations of Alma Ata conference <br> a Move of HSR/ Reform of Medical Education to achieve HFA by 2000 Alma Ata <br> - MDGs up to 2015 <br> $\square$ SDGs <br> $\square$ UHC <br> aThe Global Conference on Primary Health Care, Astana, Kazakhstan, 2018 emphasized on role of PHC approach to achieve UHC |

Definition of PHC !

It is the essential health care made accessible to the individuals and community through their full involvement and participation at a cost, the country and individuals can afford with methods that is scientifically sound and socially acceptable.

## Sharing vision

## Primary Health Care !!

- It is the level of care or setting (not a specialty)
through which a person has the first contact (point of
entry) to the health care system.
- The care at this level can be provided by the
GP/FP.
- It could be provided by Internist, and Pediatrician sub-specialized physician in







## Futuristic View for Happy Yemen <br> Short Term Strategy

© Training of old (senior) PHCPs (Grandfathering clause 1

C A grandfather clause or grandfather effect is a provision whereby an old rule continues to apply to some existing situation while a new rule applies to all future cases.
C Those exempt from the new rule are said to have grandfather rights or acquired rights.

C Grandfather clauses have been used across a range of different policy areas, including healthcare.

- This initiative was implemented in some countries as Korea

C Exposing of senior PHCPs to a crash course and depending on reframing of their previous experiences to be consistent with the Evidence based practices.
Q Exemption from some requirements to be certified (e.g Exam. at the end of the course)

## Futuristic View for Happy Yemen

| Long Term Strategy |
| :--- |
| C Initiating FM curriculum in the under-grade phase in <br> Medical Schools. <br> CTraining of young PHCPs (National Fellowship/Arab Board <br> of Family Medicine). <br> C Initiating FM Programs in the post-grade phase in Medical <br> Schools.(Diploma/ MSC/ MD/ Fellowship) |

## Take Home Message

$\checkmark$ PHC setting is the scene where PHCPs/FPs/GPs are practicing.
$\checkmark$ PHC approach is the way to achieve UHC and HFA
$\checkmark$ FM has important Principles that Trained PHCPs/FPs/GPs have to implement at the level of their practice
$\checkmark$ A lot of success has been achieved in health sector in Yemen but more efforts are required to improve health towards achieving UHC and HFA.
$\checkmark$ Five-star-doctor is the catalyst to improve health in Yemen.
$\checkmark$ Trained PHCPs/ FPs/GPs are corner stone in the process of achieving UHC and HFA.

Take Home Message
$\checkmark$ The short term strategy to improve health situation in Yemen could include (Training of young PHCPs through crash course/enrolling in professional diploma program along with Grandfathering clause for old PHCPs).
$\checkmark$ The long term strategy to improve health in Yemen could include (Initiating and activation of FM National Fellowship and Arab Board/starting of FM curriculum in under grade phase along with Diploma/

Home Message
change is
difficult.
not changing

# Assessment of patient safety culture in primary care setting, Al-Mukala, Yemen 

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#### Abstract

Background: Patient safety culture in primary care is the first step to achieve high quality health care. This study aims to provide a baseline assessment of patient safety culture in primary care settings in Al-Mukala, Yemen as a first published study from a least developed country. Methods: A survey was conducted in primary healthcare centres and units in Al-Mukala District, Yemen. A comprehensive sample from the available 16 centres was included. An Arabic version of the Medical Office Survey on Patient Safety Culture was distributed to all health workers (110). Participants were physicians, nurses and administrative staff. Results: The response rate from the participating centres was $71 \% .(N=78)$. The percent positive responses of the items is equal to the percentage of participants who answered positively. Composite scores were calculated by averaging the percent positive response on the items within a dimension. Positive safety culture was defined as $60 \%$ or more positive responses on items or dimensions. Patient safety culture was perceived to be generally positive with the exception of the dimensions of 'Communication openness', Work pressure and pace' and 'Patient care tracking/follow-up', as the percent positive response of these dimensions were 58,57 , and $52 \%$ respectively. Overall, positive rating on quality and patient safety were low ( 49 and $46 \%$ respectively). Conclusions: Although patient safety culture in Al-Mukala primary care setting is generally positive, patient safety and quality rating were fairly low. Implementation of a safety and quality management system in Al-Mukala primary care setting are paramount. Further research is needed to confirm the applicability of the Medical Office Survey on Patient Safety Culture (MOSPSC) for Al-Mukala primary care.


Keywords: Patient safety culture, Primary care, Yemen

## Background

Quality and safety are the vital goals for all health care organizations. Patient safety means the extent to which patients are protected from avoidable harm, poor patient safety indicates that patients are not in fact adequately protected [1].
Most researchers and activities are directed to hospitals although it is well known that the majority of patients are treated and cared for in primary care facilities, especially by family doctors [2]. This is especially true in developing countries, often with significant limitations

[^0]on infrastructure, as well as in procedures and standards for safe practices [2]. Eastern Mediterranean and African Study found that unsafe care affects around $10 \%$ of patients, most those incidents were preventable [3].
It goes without saying that patient safety is a challenge against primary care success [4]. Actually, the amount of medical errors in primary care has been found to be difficult to estimate, as it depends on the accuracy of recording and incidents standardization so very little is known about these errors [5]. It has been identified that a significant proportion of safety incidents caught in hospitals had originated in the earlier levels of care [2].
As a result, the World Health Organization (WHO) Patient Safety Program has initiated the "Safer Primary Care" project. It focuses on risk exposures, harms which
are preventable, and how to protect patients at primary care level [6].
In order to enhance primary care safety, the National Patient Safety Agency developed a best practice guide that describes how to "build a safety culture" as the first of the seven key steps for primary care organizations to protect the patients they care for [7]. However, undertaking a baseline assessment of patient safety culture of the organization is the first step to start with in building safety culture [2].
A true safety culture is one in which every person in the organization recognizes their responsibilities in regard to patient safety and works to improve the care they deliver. In addition to a recognition that mistakes and incidents can happen, and that health care is not without its risks [7].
Consensus has emerged among patient safety experts that cultural attributes such as leadership support, teamwork, communication, and fair and just culture principles remain central to ensuring patient safety in health care organizations [8].
Measuring the patient safety culture helps organizations to detect areas for improvement and monitor changes over time [9]. A number of tools have been used in various healthcare settings-most of them have been designed in developed countries $[9,10]$.
However, culture and other human factors have influences on patient safety so these factors should be considered whenever safety culture measurement tools are applied in different social settings [10, 11].
outpatient clinic. Some of these centers contains more clinics such as general practice, gynecology and nutrition clinics. All clinics in the center share the same administrative staff and most non-clinical support staff. Most of the managers are care providers. The majority of these centers are small buildings with scarce resources. Most of them lack quality and safety systems. An information exchange system is not available so communication with other settings occurs informally. There is no information system or medical records in most centers. The total number of staff in each center varies from 3 tol6.

## Design and sampling

A survey was conducted in the period between June to December 2013. The sample was comprehensive which included all providers and non-care providers in the 16 PHCCs. The sample included physicians, nurses including medical assistants and midwives, and non-clinical staff (non-care providers). The questionnaires were distributed to 110 providers and non-care providers who were available at the time of study. Those who spent less than a month in the center were excluded.

## Data collection tool

The current study used the Medical Office Survey on Patient Safety Culture (MOSPSC) which is a validated tool sponsored by the Agency of Healthcare Research and Quality (AHRQ) for medical offices [21]. It has sound psychometric properties and was released first in 2009 [22]. Al-Mukala's PHCCs met the criteria of AHRQ

There are few published studies on patient safety culture in primary care and most of them are in developed countries $[12-20]$. There is only one published study assessing primary care patient safety culture in an Arabic population (Kuwait) [19], and two studies in the Eastern Mediterranean Region (EMRO) [15, 19]. Ghobashi et al. assessed patient safety culture in Kuwait primary care centers and found that the mean score for positive perception of patient safety culture dimensions was $56 \%$ [19]. It was slightly higher in Iranian health centers (57 \%) [15]. Unfortunately, primary care patient safety culture has not been assessed in least developed countries.
The current study aims to provide a baseline assessment of patient safety culture in primary care settings in AL-Mukala, Yemen. It can provide insight into areas for improvement to guide future changes.

## Methods

## Study setting

This study has been conducted in Al-Mukala District's primary health care centers and units (PHCCs). AlMukala is the capital of Hadhramout, Yemen. There were 16 health centers and units in Al-Mukala District at the time of study. All of them contain at least one
for medical offices so were eligible for using this survey tool. The criteria are that the medical office should be an outpatient facility in one geographic place. Providers in the medical office should share some or all administrative staff, and clinical support staff. Administration of MOSPSC is restricted to offices with at least three providers. Providers are physicians, and other providers licensed to diagnose health problems, treat patients, and prescribe drugs [21].

The medical office survey tool composed of two overall safety outcomes and twelve dimensions. It has been adapted and validated for use in primary healthcare settings in Spain, it has been found to be useful and recommended for international comparison [16]. It has been translated into Arabic by a translator who has experience in patient safety research, then back-translated to test translation accuracy. The translation was then reviewed by six professional experts from the primary care and patient safety fields. Lastly, the questionnaire was piloted with five health workers to make sure the questions were understood and not unpleasant.
Modification was done in light of a pilot study and the last two dimensions of MOSPSC (information exchange with other settings, and patient safety and quality issues)
were deleted because of the high non response rate and non-applicability. So the current study used the following survey measures; first: two overall patient safety outcomes ( 6 items). i.e. overall ratings on quality and overall rating on patient safety, second: ten dimensions of culture related to patient safety ( 38 items): teamwork, patient care tracking/follow up, organizational learning, overall perceptions of patient safety and quality, staff training, owner managing partner/leadership support for patient safety, communication about error, communication openness, office process and standardization, and work pressure and pace [21]. The 10 dimensions' reliability expressed as Cronbach's alpha for the AHRQ data from more than 200 medical offices ranged from 0.75 to 0.83 [21]. whereas for the data in this research, the Cronbach's alpha ranged from 0.20 to 0.70 (Table 1), much lower than the AHRQ data, which inferred that the consistency of the responses on each survey item for the data in this study is very low if compared with the AHRQ data.
If the following six items are deleted, the reliability will become better (range from 0.23 to 0.81 ) with only one dimension reliability below 0.40 . These items are C3, C 9 , C10, D3, D8, and F6. To justify the validity of using the MSOPSC on assessing patient safety culture in Al-Mukala primary care setting, we planned to use the confirmatory factor analysis (CFA) but it did not meet the test assumptions because of the inadequacy of the sample size.
positive responses i.e. 'strongly agree'/, 'agree', or 'excellent'/'very good'. For example, for the item "We have enough staff to handle our patient load," if $30 \%$ of respondents within a medical office responded "Strongly agree" and $40 \%$ responded "Agree", the item-level percent positive response would be $30 \%+40 \%=70 \%$. Likewise, for each negatively worded item, the percentage of negative responses was calculated. For example, for the item "Mistakes happen more than they should in this office," if $60 \%$ of respondents within a medical office responded "strongly disagree" and $20 \%$ responded "disagree", the item-level percent positive response would be $80 \%$ (i.e., $80 \%$ of respondents do not believe mistakes happen more than they should in this office). Composite scores were calculated by averaging the percent positive response on the items within a dimension. For example, for a four-item composite, if the item-level percent positive responses were $40,50,60$ and $50 \%$, the medical office's composite-level percent positive response would be the average of these four percentages, or $50 \%$ positive. Patient safety strengths are items/dimensions with 75 or more percent positive response [21]. The cutoff percentage for areas needing improvement is less than $60 \%$ positive response. Univariate analysis: descriptive statistics for the participants' characteristics as well as patient safety outcomes were calculated. Bivariate analysis: The PHCCs items and composite score were compared against the results from 935 United States (U.S.) medical offices of different specialties (benchmark score), with most catego-

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## Data collection method

The data were collected by paper-based self-administered questionnaires. Questionnaires were distributed to the 16 health centers and units by the researchers and health workers. There were two surveys one week apart to maximize the response rate as recommended by the questionnaire developers [21]. The second survey excluded participants who had filled out the questionnaire during the first survey. Each health center's or unit's questionnaires were uniqely identified.. After receiving the completed questionnaires, surveys were examined for completeness. Surveys where the respondent gave the exact same answer to all the questions were omitted as well as blank ones [21]. After removing incomplete questionnaires, a total of 78 respondents from 16 PHCCs provided completed surveys ( 17 physicians, 46 nurses, and 15 non-care providers). Therefore, the final response rate for the survey was $71 \%$.

## Data analysis

The data were entered and analyzed by the researchers using the Premier customized data tool [21] and IBM SPSS Statistics 20. Calculation of percent positive responses: Item percent positive responses for each positively worded question is equal to the percentage of
rized as Family Practice ( 391 offices) as seen in Table 1 \& Fig. 1. The 2014 database consists of data from 27,103 respondents, a range of 5 to 725 completed surveys were submitted per medical office, and the average response rate was 64 \% [23]. Comparison with results from regional surveys was impossible because none of them used the same tool. The overall rating of patient safety was compared against results from Kuwait, Iran and U.S. medical offices (Fig. 2).

## Ethical considerations

The study protocol has been approved by the department of Family Medicine, Hadhramout University College of Medicine. Permission letters were sent to the managers of the health centers and verbal informed consents were obtained from all the respondents for agreement about participation.

## Results

## Demographic data

A total of 78 healthcare staff provided survey feedback (a response rate of $71 \%$ ). Fifty-six ( $72 \%$ ) of the participants were females. The majority, $63(81 \%)$ of them, were providers. Seventeen of respondents (22 \%) were physicians and 46(59 \%) were nurses. Most of them had

Table 1 Item-level result for Al-Mukala primary care centers (Yemen, $N=78$ ) and U.S. medical offices ( $N=27,103$ )

| Survey Items By Patient Safety Culture Dimensions | $\frac{\% \text { positive response }}{}$ |
| :--- | :--- |

1. Teamwork (Cronbach's alpha $=0.468$ )
2. When someone in this office gets really busy, others help out. C1 97
3. In this office, there is a good working relationship between staff and providers. C2 97
4. In this office, we treat each other with respect. C5 96
5. This office emphasizes teamwork in taking care of patients C13 94
6. Patient Care Tracking/Follow-up (Cronbach's alpha $=0.289$ )
7. This office reminds patients when they need to schedule an appointment for preventive or routine care. D3 60
8. This office documents how well our chronic-care patients follow their treatment plans. D5 55
9. Our office follows up when we do not receive a report we are expecting from an outside provider. D6 26
10. This office follows up with patients who need monitoring. D9 68
11. Organizational Learning (Cronbach's alpha $=0.402$ )
12. When there is a problem $m$ our office, we see if we need to change the way we do things. F1 86
13. This office is good at changing office processes to make sure the same problems don't happen again. F5 64
14. After this office makes changes to improve the patient care process, we check to see if the changes worked. F7 100
15. Overall Perceptions of Patient Safety and Quality (Cronbach's alpha $=0.259$ )
16. Our office processes are good at preventing mistakes that could affect patients. F2 878
17. Mistakes happen more than they should in this office. F3 ${ }^{\text {c }}$

80
3. It is just by chance that we don't make more mistakes that affect our patients. F4 ${ }^{\text {c }}$
4. In this office, getting more work done is more important than quality of care. $\mathrm{FG}^{\mathrm{c}}$

81
5. Staff Training (Cronbach's alpha $=0.399$ )

1. This office trains staff when new processes are put into place. C4 78
2. This office makes sure staff get the on-the-job training they need. C7 77
3. Staff in this office are asked to do tasks they haven't been trained to do. $\mathrm{C} 10^{6} \quad 74$
4. Owner/Managing Partner/Leadership Support for Patient Safety (Cronbach's alpha $=0.697$ )
5. They aren't investing enough resources to improve the quality of care in this office. $E 1^{c} \quad 50$
6. They overlook patient care mistakes that happen over and over. E2 ${ }^{\text {C }}<69$ S3
7. They place a high priority on improving patient care processes. E3 $\quad 78$
8. They make decisions too often based on what is best for the office rather than what is best for patients. E4 $4^{\text {c }} \quad 59 \quad 62$
9. Communication About Error (Cronbach's alpha $=0.197$ )
10. Staff feel like their mistakes are held against them. $D 7^{c}$

67
2. Providers and staff talk openly about office problems. D8 79
3. In this office, we discuss ways to prevent errors from happening again. D11 74
4. Staff are willing to report mistakes they observe in this office. D12 48
8. Communication Openness (Cronbach's alpha $=0.632$ )

1. Providers in this office are open to staff ideas about how to improve office processes. D1 53
2. Staff are encouraged to express alternative viewpoints in this office. D2 48
3. Staff are afraid to ask questions when something does not seem right. D4 ${ }^{\text {c }} 72$
4. It is difficult to voice disagreement in this office. D10 ${ }^{\text {c }} 61$
. Office Processes and Standardization (Cronbach's alpha $=0.365$ )
5. This office is more disorganized than it should be. C8 ${ }^{\text {c }} 46$
6. We have good procedures for checking that work $m$ this office was done correctly. C9 73
7. We have problems with workflow in this office. $\mathrm{C} 12^{\text {c }} 59$
8. Staff in this office follow standardized processes to get tasks done. C15 81

Table 1 Item-level result for Al-Mukala primary care centers (Yemen, $N=78$ ) and U.S. medical offices ( $N=27,103$ ) (Continued)

| 10. Work Pressure and Pace (Cronbach's alpha $=0.404)$ | 67 | 37 |
| :--- | :--- | :--- |
| 1. In this office, we often feel rushed when taking care of patients. C3 |  |  |
| 2. We have too many patients for the number of providers in this office. C6 |  |  |
| 3. We have enough staff to handle our patient load. C11 | 58 | 49 |
| 4. This office has too many patients to be able to handle everything effectively. C14 |  |  |

[^1]a diploma (67 of them (86 \%)). Around half of respondents had patient safety education $40(51 \%)$. More than half of the healthcare staff had work experience of 3 years or more in the current health center ( 44 of them ( $56 \%$ ). Most had work duties of less than 33 hours per week ( 83 \%) (Table 2).

## Patient safety culture dimensions

The average positive responses for all dimensions was $67 \%$. Fig. 1 demonstrates the percentage of positive responses in the ten dimensions in the PHCCs. It was highest for 'teamwork' (96 \%), and 'Organizational learning' (83 \%) while lowest for 'Work pressure and pace'
(57 \%) and 'Patient care tracking/follow-up' (52 \%). In comparison with the benchmark average score obtained from 935 medical offices in U.S., the score for 'teamwork' was lower in medical offices (86 \%), than in PHCCs. On the other hand, the positive score for 'Patient Care Tracking/Follow-up' was very low for PHCCs ( $52 \%$ ) if compared with medical offices ( $82 \%$ ).

## Healthcare quality and patient safety grade

The average positive rating on quality was very low ( $49 \%$ ) in PHCCs in contrast with medical offices ( $68 \%$ ) (Table 2). Patient centeredness in PHCCs had the lowest rating among all of the quality dimensions. It was assessed as


very good to excellent by only $33 \%$ of participants. Whereas equitability had the highest positive rating ( $81 \%$ ) in both PHCCs and U.S. medical offices (82 \%) (Table 3), Concerning patient safety, positive overall rating (excellent and very good) on patient safety in Al-Mukala PHCCs (46 \%) was less than in Kuwaiti PHCCs and U.S. medical offices as shown in Fig. 2.

## Discussion

To our knowledge, this study is the first published that assessed PHCCs patient safety culture in Yemen and least developed countries. However, research is a priority to promote patient safety in primary care [24]. On the other hand, there are many studies conducted in developing and developed countries on patient safety culture
in primary care with diversity both in the tools used and outcomes reporting. But only one published study used MOSPSC in primary care [16].
There were many areas of strengths and others with potential for improvement. Areas requiring improvement are patient care tracking/follow up, communication openness, and work pressure and pace. These areas should be focused on because positive safety culture is so important to improve patient safety in primary care [25].
The average of positive responses for all dimensions in the PHCCs was 67 \% which was lower than in U.S. medical offices' average but higher than in Turkish (47 \%) [12], Iranian [15], and Kuwaiti PHCCs [19]. Our PHCCs differ from other countries by the very small size and less diversity of team members. Sample size of the abovementioned studies ranged from 100-276, and their participants included dentists, dieticians, pharmacists, technicians, and community health workers in addition to physicians, nurses and administrative staff. Our high positive response here could be explained by the findings
from the U.S medical office comparative database. It shows that the greater the number of providers, the lower average percent positive on all ten patient safety culture dimen sions [23]. Members of small teams may have a more positive perception of team climate in general and work more closely together despite their different professions [26, 27].
The highest percentage of positive responses in the current study were in "teamwork" and "organizational learning" dimensions. Most Al-Mukala PHCCs are small buildings with few staff and an unsophisticated environment which are factors that encourage teamwork [24].
However, these dimensions were areas of strength in many studies regionally and internationally as in Kuwaiti PHCCs, U.S. medical offices and hospitals, as
well as in Taiwanese, Lebanese, and Saudi hospitals [11, $19,23,28,29]$.
On the other hand, the least positive response was in patient care tracking/follow up. This means that in Al-Mukala PHCCs patients are not reminded about appointments, their compliance with the treatment plan is not documented, follow up with patients who need monitoring or when reports from an outside provider are not received are lacking. In contrast, the U.S. medical offices found that patient care tracking was the second highest positive dimension [21]. Unlike the U.S. health system, AL-Mukala PHCCs are characterized by less modernization and lack of an electronic system which makes patient follow up more difficult. Information technology is very important for patient safety as it facilitates rapid tracking and follow-up of medical errors [30].
The second area for improvement in this study is inadequacy of staff and providers to handle the patient load, and the deficiency of work pace. Similarly, benchmark

Table 2 Demographic characteristics of respondents in AlMukala (Yemen) primary care centers

| Variable |  | No (\%) |
| :--- | :--- | :--- |
| Gender | Male | $22(28.21)$ |
|  | Female | $56(7 . .79)$ |
| Qualification | Diploma | $67(85.90)$ |
|  | Bachelor or | $11(14.10)$ |
|  | master |  |
| Job position | Care providers | $63(80.77)$ |
|  | Non-care | $15(19.23)$ |
|  | providers |  |
| Patient safety education | Yes | $40(51.28)$ |
|  | No | $38(48.72)$ |
| Duration of work in the health center | $<1$ | $17(21.79)$ |
| (Year) | $1-<3$ | $17(21.79)$ |
|  | $3<6$ | $16(20.51)$ |
|  | $6-<11$ | $12(15.38)$ |
|  | 11 or more | $16(20.51)$ |
| Work hours per wcek | $<16$ | $18(23.08)$ |
|  | $16-<25$ | $30(38.46)$ |
|  | $25-33$ | $17(21.79)$ |
|  | 33 or more | $13(16.67)$ |

reporting is expected because primary care is known to lack standardized incidents registration or reporting systems [5]. Zwart et al. reported that incident reporting is actually uncommon in Dutch general practice [32]. So it is realistic to overlook this dimension in MOSPSC.
The third area of concern was that superiors in the PHCCs are not open to staff ideas, and staff are not encouraged to say alternative viewpoints or express disagreement. Communication openness was an area of concern in studies in Kuwait and Turkey [12, 19], but Iranian and Dutch PHCCs, and U.S. medical offices reported higher positivity $[15,23,31]$. The discrepancy between results regarding communication openness from different countries might be related to cultural differences especially communication styles. For example, Americans tend to be direct in communication. They value logic and linear thinking and expect people to speak frankly and in a straightforward manner [33]. However, openness in general is found to be a problem in developing countries and the Middle East [34]. Yemenis like many Eastern populations tend to be conservative in conversation and feedback, so frank criticism is usually not acceptable [35]. Disagreement and criticism against supervisors or team members are frequently interpreted as blame or as a fight against them and may lead to loss of personal relationship or career so most employees tend to avoid it.
Overall, positive rating of healthcare safety and quality in this study was low in all areas (less than $50 \%$ ) except equitability, where they were rated positive by $81 \%$ (Table 3). This result is not surprising due to a lack of formal safety and quality management systems in our primary care centers. Our health centers' responsiveness to individual patient preferences, needs, and values was an area of concern. Patient-centeredness in health care has been proved to have a positive impact on patient safety [36]. However, in Yemen, decisions are generally made by the superiors and work their way down, especially in public sectors [35]. So in the domain of healthcare, patients are infrequently involved in the process and their opinions and preferences are not priorities. In
medical offices and many other studies conducted in primary care settings and hospitals reported inadequacy of staff and work load as areas of weakness $[12,15,19,23$, 31]. It has been clarified methodologically that the number of PHCCs in Al- Mukala district and staff in each center are generally few which explains the reason of work pressure. Most published studies in PHCCs used a modified version of the AHRQ hospital survey that does not assess patient care tracking. In those studies, the frequency of events reported, the non-punitive response, in addition to staffing had the lowest positive responses $[12,15,19,31]$. A very low positive response for event

Table 3 Overall rating on quality; comparative results for Al-Mukala primary healthcare centers (Yemen, $N=78$ ) and U.S. medical offices ( $N=27,103$ )

| Rating <br> Quality dimension | Cxcellent \% <br> PHCCs(MO) | Very good \% <br> PHCCs $(\mathrm{MO})$ | Good \% PIICCs <br> $(\mathrm{MO})$ | Cair \% PIICCs <br> $(\mathrm{MO})$ | Poor \% PIICCs <br> $(M O)$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| i. Patient centeredness | $8(36)$ | $25(36)$ | $32(23)$ | $19(5)$ | $16(1)$ |
| ii. Effective | $17(34)$ | $23(37)$ | $41(25)$ | $17(4)$ | $1(1)$ |
| iii. Timely | $12(23)$ | $31(33)$ | $32(28)$ | $21(12)$ | $4(4)$ |
| iv. Efficient | $22(26)$ | $24(35)$ | $43(28)$ | $7(8)$ | $4(2)$ |
| v. Equitable | $44(55)$ | $37(27)$ | $13(14)$ | $4(3)$ | $1(1)$ |

${ }^{\text {a }}$ Quality dimension items are: i. is responsive to individual centered patient preferences, needs, and values, ii. is based on scientific knowledge, iii. minimizes waits and potentially harmful delays, iv. ensures cost-effective care (avoids waste, overuse and misuse of services), v. provides the same quality of care to all individuals
regardless gender, race, ethnicity, socioeconomic status, language ...etc
${ }^{\text {b }}$ PHCCS: AL-Mukala primary healthcare centers (Yemen), MO: U.S. medical offices
the same vein, Yemen has in general a slow-paced culture, delays to business and appointments are not uncommon and is not interpreted as a matter of disrespect or impoliteness. This is starting to change slowly as the pace of life is starting to become faster and faster [35]. This feature is probably reflected in healthcare quality making it untimely.
Less than half of respondents in this study gave positive overall rating of patient safety, a similar result was reported in Turkish and Iranian PHCCs [12, 15]. While in Kuwaiti PHCCs, U.S. medical offices, and hospitals as well as Lebanese and Palestinian ones, the most frequent rating was excellent to very good [19, 21, 28, 37]. Overall rating of patient safety assesses systems and clinical processes undertaken by the organization to prevent, detect, and correct problems that could endanger patients [21]. Primary care in developing countries is characterized by suboptimal infrastructure, procedures and standards for safe practices [6]. Al-Mukala PHCCs lack safety and quality systems. Some efforts are done informally to prevent harm but they are inadequate.

## Conclusions

Though patient safety culture in Al-Mukala primary care setting is positive overall, patient safety and quality rating were fairly low. The systems and clinical processes to prevent, catch, and correct problems that have the potential to affect patients are inadequate in Al-Mukala health centres. Adding to that, low quality of health care concerning patient-centeredness, effectiveness, timeliness, and efficiency. The highest percent positive responses were for 'teamwork' and 'organizational learning'. Areas of potential for improvement are communication openness, patient care tracking/follow up, and work pressure and pace. Implementation of safety and quality management systems in Al-Mukala primary care setting is paramount. We recommend increasing the number of health workers per centre and finding an appropriate method for effective patient care tracking. Communication between health care providers and the staff within health centres needs to be more clear and direct in order to encourage constructive criticism and to discover mistakes and errors and how to avoid them in future. Further research is needed to ensure the applicability of the MOSPSC for Al-Mukala primary care. There were several limitations to this project. The number of health workers in Al- Mukala health centres was small which led to a small sample size. Since the majority of respondents were physicians and nurses, the results did not adequately reflect the perception of other respondent groups, so the comparison by staff position was not conducted. Another limitation relates to the low Cronbach's alpha values for the composite scores measuring patient safety culture in Al-Mukala PHCCs. Such low scores may have resulted from the fact that some terminology may be unknown to Al- Mukala PHCCs' staff
because the concept of patient safety culture is new and because there is a lack of safety and quality management systems. Testing the validity of MOSPSC was impossible due to an inadequate sample.

## Abbreviations

AHRQ: Agency of Healthcare Research and Quality; EMRO: Eastern
Mediterranean Region; IOM: International institute of medicine;
MOSPSC: Medical Office Survey on Patient Safety Culture; PHCCs: Primary
health care centers; SPSS: Statistical product and service solutions; U.S.: United States; WHO: World Health Organization.

## Competing interests

The authors declare that they have no competing interests.

## Authors' contributions

SSA and MAB participated in pilot study, data collection, and discussion. RHA and WHA participated in pilot study, data collection, and methodology. HHW participated in pilot study, performed statistical analysis, and formulated results. ASA performed statistical analysis, and formulated results. All authors participated in developing study hypothesis, objective and study design. All authors participated in the sequence alignment and drafted the manuscript. All authors read and approved the final manuscript.

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# The Need for Pre-service Education in Integrated Management of Childhood IIIness (IMCI) in Yemen 

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#### Abstract

: More than two-thirds of deaths among children are attributed to five conditions which are responsible for $80-90 \%$ of outpatient consultations. In the last decades of the $20^{\text {th }}$ century, global meetings have alerted countries and the international health community to the severity of the situation of child morbidity and mortality. The response to this situation was to package a set of simple, affordable and effective interventions for the combined management of the major childhood illnesses and malnutrition at the $1^{\text {st }}$ level health facilities, under the label of "Integrated Management of Childhood Illness" (IMCI) developed by the World Health Organization and the United Nations Children's Fund. However, the classical Pediatric teaching, in most medical schools, is usually "hospital oriented" thus stressing on the accurate diagnosis and management of diseases in well-equipped health facilities but not preparing the physician to fully react with the reality at the first level health facilities. Unfortunately, in most first level health facilities (outpatient clinics, rural and urban health centers, maternal and child health centers, etc.), accurate diagnosis might not always be possible due to the lack of diagnostic tools, overlap of symptoms and huge number of patients. The present paper aimed at describing the rationale that universities need to adopt an integrated approach to the management of sick children (IMCI) at the first level health facilities to complement the classical Pediatric teaching.


The paper discusses the context through which IMCI could be incorporated in the curriculum not only the theoretical concepts (e.g. guidelines) in the teaching programs, but also the adoption of more active teaching methods and supervised practice of clinical and communication skills for students to achieve the objective of IMCI pre-service training of
providing students with knowledge and developing their skills and attitudes in managing the most common health problems in the community. The other potential benefits of IMCI preservices training are also addressed like: (1) by exposing students to this approach since their medical or health-related studies, pre-service training offers the major advantage of preparing them for the "world outside" and the tasks ahead since then, reducing the gap between the educational and outside settings; (2) easing the burden of long, time-consuming and resourceintensive in-service training after they qualify and start providing health services; (3) incorporating pre-service training in the teaching curriculum of the already existing education system to produce human resources, have the potential to be more sustainable than relying only on continuous in-service training; and (4) the impact of the high turnover of trained staff -a chronic problem in many developing countries health systems-is reduced. Finally, the paper concluded with the necessary recommendations to enable the future health graduates to perform efficiently and successfully also in settings where very limited diagnostic tools and therapeutic options are available, once they start their practice whether in the public or private domains.

## Caring of children: define the role of family physicians

## Prof: Algariri Najla

## Abstract:

Family Medicine is the speciality of first contact with the patient, with an emphasis on providing comprehensive physical, psychological and social care for the patient and his family. The focus is on the patient, with the background knowledge of his family and not just on the disease entity, organ or system. Apart from curative care, a Family Physician is in the best position to provide preventive care, promotion of health and rehabilitative care within the community and familiar surroundings.

The proportion of children's health care being provided by family physicians has declined significantly since the early 1990s (as reported by AAFP), this might related to increasing number of paediatricians and decrease awareness of the community about the importance of family physicians in paediatric health also decrease the confidence of
family physicians to treat child with special need like Autism spectrum disorders and developmental and mental disorders.

Family physicians face Challenges to providing quality children and neonatal care services in, given the nature and scale of humanitarian needs, lack of access due to insecurity, weak health system capacity, costs of care seeking, and an ongoing some infection epidemic. Greater attention to availability, quality and coordination of primary health care, For that Yemen needs collaboration systems between paediatricians and family physicians to provide the best quality health services to children and their families

In this topic I will highlight the role of family physicians in children health care, show some data did in other countries related to the family physicians and their experiences in paediatric age group, and at the end I will discuss some solutions to improve the paediatric training part of family physicians.

## Principles of managing chronic respiratory conditions in family medicine

## Steve Holmes (General Practitioner, United Kingdom)

| Declaration of Interests (1) <br> General practitioner, Park Medical Practice, Shepton Mallet <br> Primary Care Respiratory Society (Executive and previous chair; Primary Care Respiratory Academy lead, Education Committee) <br> Respiratory Academy lead, Education Committee) <br> RCGP (College Council, Severn Faculty Board, Essential Knowledge Update and clinical expert, Lung Health Taskforce) <br> International Primary Care Respiratory Group (IPCRG) Education Committee <br> Somerset CCG Respiratory Lead and Chair, Somerset Respiratory Programme Board <br> Health Education England (Associate Postgraduate Dean, GP Trainer in Somerset) <br> NHS England (National CVD and Respiratory Programme Board) <br> NHS England (Appraiser) <br> Guideline involvement (Air Travel, Asthma, COPD, Mesothelioma, Pulse oximetry, <br> Spirometry, Tobacco Dependency) | Declarations of Interest (2) <br> Conference attendance / speaker engagements / educational projects / adv <br> board work (in the last five years -all 2021 <br> Academic work (2019) Cambridge, Edinburgh, Sherfield, Southampton, University of South Wales (2016) Other CCGs Other CCGs Other providers (2017) Best Practice, Dorset Practice Nurse Group, Education for Health, EQUIP, Guid Mediconf, MIMS, Nursing in Practice, Omniamed, Pulse, RCGP Conferences Pharmaceutical / device companies Astra Zeneca, Boehringer Ingelheim, Chiesi, Glaxo Smith Kline, Johnson and Novartis, Nutricia,Orion, Pfizer, Roche, Teva, Trudell Medical Intemation Novartis, Nutricia,Orion, Pfizer, Roche, Teva, Trudell Medical International |
| :---: | :---: |
| Core principals of management in family practice | Covering the two common chronic lung disease conditions |
| - Get the diagnosis right | - Asthma |
| - Provide appropriate support and medication | - COPD |
| Involve specialist care if unable to manage or |  |
| doesni fit in with your | 为 |

INTERYem



Treatment of under 5 - chronic symptoms

- Use the BTS / SIGN guideline advice ${ }^{1}$
- Inhaled corticosteroid good evidence (less if under one year in age) and montelukast has some evidence ${ }^{2}$ though review suggests not effective ${ }^{3}$


SIMPLES - adapted SAILS

- Symptoms / control
- Admissions or exacerbations
- Inhaler technique and concordance
- Lifestyle (exercise, smoking, work) / Lung function (PFR)
- Self management plan (for emergency)

Ryan D, Murphy A, Stallberg B, Baxter N, Heaney LG. SIMPLES: a structured primary care approach to adults with difficult asthma. Primary Care Respiratory Journal. 2013;22(3):365-73
Who should be referred for specialist review?

- Diagnosis is unclear
- Asthma remains poorly controlled and adherence to medications, readily available in primary care
- Occupational asthma is suspected
- $\geq 2$ courses of OCS for
- exacerbations in the past year
- more than 12 reliever inhalers in year (and the amount does not look like reducing)
- severe/life-threatening asthma attack, attended the Emergency
Department or been hospitalised Department or been hospita
with asthma in the last year
Holmes S, Kane B, Pugh A, Whittaker A, MCArthur R, Carroll W, Poorly controlled and severe asthma: triggers for referral for adult or paediatric specialist care - a PCRS pragmatic guide. Primary Care Respiratory Update. 2019;Autumn 2019(18):22-7,

Benefits of a personal asthma action plan


Six steps for a good review

1. Establish that diagnosis is correct? Does the patient have asthma and the symptoms linked to asthma or is this another condition?
2. Are there other conditions contributing? Does the patient have anoth condition as well that is potentially making the breathing symptoms worse? (COPD, heart failure, deconditioning, anaemia, anxiety)
3. Structured review
4. Ideas, concerns and expectations - What are the ideas, concerns and expectations of our patient (and carers) linked to their asthma and its treatment
5. Shared decision (include management plan)
6. Documentation
$\bigcirc$

Adapted from independent Nurse 19 May 2014 , Holmes 5 S Scullion IE $(2014)$
British guidelines for the management of asthma


Exacerbation management in asthma

- Ineed some more steroids for my asthma flare ups the out of hours said I should keep some in.
- What do you say to your patient?

Got asthma?


How common are exacerbations?
222,817 and 211,807 patients with asthma included from the US and UK databases

|  | US | UK | Length per <br> exacerbation (yrs) |
| :--- | :---: | :---: | :---: |
| $\geq 1$ exacerbation during the <br> follow-up period | $12.5 \%$ | $8.4 \%$ | $8-11.9$ |
| ED presentation / <br> hospitalization | $2.3 \%$ | $1.4 \%$ | $43.5-71.4$ |
| If admitted - readmission <br> within 30 days | $9.2 \%$ | $4.7 \%$ | Not applicable |

Suruki RY, Daugherty JB, Boudiaf N , Albers FC. The frequency of asthma exacerbations and healthcare utilization in pa
with asthma from the UK and USA. BMC Pulmonary Medicine. 2017; ;77(1):74.
Development of an acute exacerbation (days not minutes) but if minutes - allergy?


Tattersfield AE, Postma DS, Barnes PJ, Svensson K, Bauer CA, O'Byrne PM, et al. Exacerbations of asthn descriptive study of 425 severe exacerbations. The FACET International Study Group. Am J Respir Crit Med. 1999;160(2):594-9.




## NICE - asthmatic features or features suggesting steroid responsiveness

- any previous secure diagnosis of asthma or atopy
- higher blood eosinophil count
- substantial variation in FEV1 ( 400 ml )
- substantial variation in PEFR (20\%)


National Institute for Health and Care Excellence. Chronic obstructive pulmonary disease in over 16s: diagnosis an management NICE guideline NG115 2019

How many people just have COPD without other problems?


Vanfleteren LE, Spruit MA, Groenen M, Gaffron S, van Empel VP, Bruijnzeel PL, et al. Clusters of comorbidities based on validated objective measurements and systemic inflammation in patients with chronic obstructive pulmonary disease.

## Six steps for a good review

1. Establish that diagnosis is correct? Does the patient have COPD and are the symptoms linked to COPD or is this another condition?
2. Are there other conditions contributing? Does the patient have another condition as well that is potentially making the breathing symptoms worse? (asthma, heart failure, deconditioning, anaemia dysfunctional breathing, anxiety)
3. Structured review
4. Ideas, concerns and expectations - What are the ideas, concerns and expectations of our patient (and carers) linked to their COPD and its treatment
5. Shared decision (include management plan)
6. Documentation


| DO | and COFD |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| DOSE Index ${ }^{\text {Variab }}$ | Points on DOSE indox |  |  |  |
|  |  |  |  |  |
|  | 0 | 1 | 2 | 3 |
| MRC dyspnoea score | 0-1 | 2 | 3 | 4 |
| FEV, \% predicted ( Obstruction) | $\bigcirc 50$ | 30-49 | <30 |  |
| Current smoking status | Non smoker | Smoker |  |  |
| Exacerbations per yoar | 0-1 | 2-3 | ${ }^{3}$ |  |

Over 5 years, 116 patients ( $20.6 \%$ ) died.
Mortality was higher in patients with DOSE index $>4$ (42.4\%) than for lower scores (11.0\%) ( $\mathrm{p}<0.0001$ ).
DOSE index of 0-3, hazard ratio for mortality set at 1
DOSE index of 4-5, hazard ratio for mortality $=3.48(95 \% \mathrm{Cl} 2.32$ to 5.22$)$
DOSE index of $6-7$, hazard ratio for mortality $=8.00(95 \% \mathrm{Cl} 4.67$ to 13.7)
Jones RC, Donaldson GC, Chavannes NH, Kida K, Dickson-Spillmann M, Harding S, et al.
Derivation and Validation of a Composite Index of Severity in Chronic Obstructive Pulmonary Disease: The DOSE Index. Am J Respir Crit Care Med. 2009:180(12):1189-95

## Key Topics in COPD



- A good diagnosis can be easy but some traps for the unwary
- Asthma and COPD - do the experts think it overlaps?
- What are the non-drug pharmacological options for COPD?
- Pharmacological interventions made easy
- A good review with limited time (Co-morbidities matter)
- Exacerbation management in COPD


## COPD - other common co-morbidities



- Glaucoma / cataracts

crossecticerci SW et al Epidemilogy of muti-motidify and implicatons for heath care, research, and medical education: a Cross.sectional study. The Lancet 2012; 3 -ATS Poster 20124 ERS Poster 2011


Williams S, Baxter N, Holmes S, Restrick L, Scullion J, Ward M. IMPRESS Guide to the relative value of COPD interventions. 2012.

## The Structured Review Part (DOSE IT)

- Dyspnoea - Assess symptoms
- Obstruction - FEV1
- Smoking status
- Exacerbations
- Inhaler technique (including concordance / compliance)
- Treatments (consider other interventions and treatments


| - A good diagnosis can be easy but some traps for the unwary <br> - Asthma and COPD - do the experts think it overlaps? <br> - What are the non-drug pharmacological options for COPD? <br> - Pharmacological interventions made easy <br> - A good review with limited time (Co-morbidities matter) <br> - Exacerbation management in COPD | Exacerbations increase decline in FEV1 <br> Hansel TT, Barnes PJ. New drugs for exacerbations of chronic obstructive pulmon disease. The Lancet. 2009;374(9691):744-55 |
| :---: | :---: |
| How soon after worsening of symptoms starts before a patient should commence steroids / antibiotics? <br> - Start SABA early on <br> - Start OCS or antibiotics 24-72 hours or longer | How long does an exacerbation last <br> Usually last 11-13 days (median) and quicker onset settle faster - though many last considerably longer before full symptom resolution |
| Aaron SD, Donaldson GC, Whitmore GA, Hurst JR, Ramsay T, Wedzicha JA. Time course and pattern of COPD exacerbation onset. Thorax. 2012;67(3):238-43. | Aaron SD, Donaldson $G C$, Whitmore GA, Hurst JR, Ramsay T, Wedzicha JA. Time course and pattern of COPD exacerbation onset. Thorax. 2012;67(3):238-43. |
| I just need another course of antibiotics and steroids - I'm not quite better yet. <br> Clinical review important ${ }^{1}$ <br> - Pneumonia <br> - Pulmonary embolus <br> - Carcinoma of lung <br> - Bronchiectasis <br> - Pleural effusion <br> - Heart failure <br> - Atrial fibrillation <br> - Remember normal recovery ${ }^{2}$ <br> - No benefit from longer course of antibiotics (for infection) ${ }^{3}$ <br> - No benefit from longer course of steroids (for exacerbations) in hospital inpatients (no studies in primary care) ${ }^{4,5}$ | - Prednisolone 30 mg daily for 5 days. <br> - Antibiotic for 5 days ${ }^{3,4}$ <br> - Amoxicillin, Doxycycline, |
|  |  |

# The International Nature of Family Medicine 

## Learning from colleagues in other countries

## Dr Helen Crawley

FRCGP MA(Cantab) BMBCh DCH DRCOG DFFP Diploma in Education, Health and Social Care

## RCGP International

Medical Director for Membership and Networks

| I am a generalist - a GP (Family Medicine Doctd <br> I am also a generalist in my non-clinical interests <br> - Inter-professional educator: undergraduate to postgraduate <br> - Non medical prescribing <br> - Clinical governance <br> - Quality improvement <br> - International projects mostly Asia, Africa | Familiar Stories of Family Medicine Development <br> In my experience four main themes run through the development of family medicine as a speciality everywhere I have worked <br> 1. Core group of Family Medicine practitioners <br> 2. Quality of service <br> 3. Appropriate professional skills <br> 4. Integration of family medicine into national health systems <br> Just like INTERYem: Training Education Research relying on <br> peer support locally and internationaly, passionate voluntary early adopters, data |
| :---: | :---: |
| 1. Core group of Family Medicine practitioners The UK Story shows how slow this can be <br> - 1948 NHS created <br> - Within 1 month $90 \%$ of population registered with a GP <br> - 1950 Lancet article on British General Practice by Dr Collings <br> - Shocked by poor standards <br> - 1951 Professional College of General Practice proposed <br> - John Hunt and Fraser Rose 3 Dec 1951 | A long slow journey: 70 years of College history <br> - 1952 Steering committee <br> - 7 GPs <br> - 5 sympathetic hospital specialists <br> - 1952 College established within 9 months <br> - Local "faculties" to encourage local peer support <br> - 1953 Foundation membership of 1,655 GPs |


| A long slow journey: professionalism <br> - 1963 World's first GP Professor Scotland (England's first was 1972) <br> - 1965 MRCGP - voluntary membership examination developed <br> - 1978 Vocational training compulsory to enter family medicine <br> - 1997 Summative assessment of vocational training compulsory <br> - 2007 MRCGP - passing membership examination compulsory <br> - 2014 GP - inspections of all GP surgeries compulsory | If you are setting up a Family Medicine organisation or "College" what might you consider? <br> - Who can join the "College"? <br> - What role will the "College" take in defining professional standards? <br> -What role in advocacy will the "College" take? |
| :---: | :---: |
| The "College": Who can join? <br> - Is the "College" inclusive or exclusive? <br> How will family medicine doctors be defined e.g. <br> - Professional qualifications obtained <br> - The job they are doing with or without specific qualifications <br> - Can allied health professionals join? <br> - Will "College" membership embrace all settings e.g. <br> - Public and private sectors <br> - Will the "College" embrace all models of care e.g. doctors focusing on: <br> - Individuals <br> - Families <br> - Individuals or families within the wider community | The "College": Professional standards <br> - To what extent is the "College" a guardian of family medicine? <br> - Defining or enforcing standards? <br> - Advising on, creating and/or delivering standards? <br> - To what extent is the "College" involved in education and training? <br> - What are roles of universities, government, "College" in: <br> - Undergraduate family medicine <br> - Postgraduate family medicine specialist training <br> - Continuing professional development <br> - Allied health professional training in family medicine <br> - Appraisal, revalidation, accreditation of family medicine practitioners |
| The "College": Advocacy <br> Patients, society, government, regulatory bodies, other professions, internationall <br> - Recognition of family medicine as a rewarding specialty <br> - What is it, what is its unique role? <br> - Gate keeper, holistic, cradle to grave - Recognition of family medicine's central contribution to universal health care <br> - Shaping the health care agenda nationally and internationally <br> - Integration of health and social care <br> - UK NHS is cost effective but we do have workforce, funding and resource issues <br> - Pay and conditions - or is this the role of a separate negotiating organisation? <br> collecting DATA is key to effective advocacy | UK General Practice Cost Effective $90 \%$ of consultations, $10 \%$ of budget |
| Pitfalls for the "College" <br> - ONE voice is more effective - although consider separating: <br> - Professional standards <br> - Pay and conditions negotiations <br> - "Grandfather's rights" - how can existing family medicine doctors join <br> - Difficult to negotiate realistic standards acceptable to all stakeholders <br> - A "College" led by pioneering doctors <br> - Overworked practitioners working in difficult conditions <br> - Patients <br> - Society and Government | 2. Quality Family Medicine <br> Challenges include: <br> - Misunderstanding family medicine <br> - Suspicion of private practice <br> Address the challenges by: <br> - Honestly recognising the current situation <br> - Addressing quality issues DATA is key to recognising situation and demonstrating improvement |
| Quality Improvement and Assurance <br> Measuring for improvement or assurance DATA <br> Donbedian model 1988 used in NHS for quality improvement <br> - Structure: Staff, equipment, guidelines (capacity to act) <br> Process: Interactions, diagnosis and treatment, auditing care (actions taken) <br> Outcome: Morbidity, mortality, patient satisfaction, results of audits (observable changes) <br> UK Care Quality Commission (CQC) <br> Safe <br> Caring <br> Responsive Well led | UK system: CQC for the whole practice <br> - Safe <br> Buildings, infection control, medicines in date, vaccine cold chain, safeguarding, learning from mistakes <br> - Effective <br> - Evidence based care with good outcomes <br> - Relies on medical records, guidelines and audit <br> - Caring <br> - Compassion, kindness, dignity respect <br> - For patients and staff |

## UK system: CQC 2

- Responsive
- Providing for patient needs
- Opening hours
- Services provided
- Accessibility including disability, deafness, marginalised communities
- Well-led
- Leadership, management, governance
- Innovation, learning, openness and fairness

Data on e.g. care outcomes, patient satisfaction, significant events, staff training

## Myanmar RCGP/MGPS with MoHS

2017 Concerns over quality from senior doctors (specialists)

- Collected "quality indicators" NOT "standards" from GP surgeries
- Aim was to understand the current state of private Family Medicine 2018 Visits from UK
- Formative peer to peer practice visits with RGCP and local GPs
- Quality improvement tools taught e.g.:
- Identifying learning needs
- Significant event analysis
- Audit outcomes
- Learning logs, personal and practice development plans
- Peer support quality circles set up
- Quality indicators, patient satisfaction, audit outcomes measured


## Leaders of the future

"In 2015 you taught us about consultation skills. We heard the words "ideas, concerns, expectations". Then you told us about quality improvement. I thought this would be expensive. But now I can identify my learning needs. I have a learning log and a practice development plan and I meet other young GPs in a group. We recently discussed hepatitis $B$. One of my colleagues brought a difficult case, and then we researched it and taught each other. This cost nothing."

Poster photos show enlarging quality circle


## Postgraduate specialist training Qualifications

-When in career? Immediately after MBBS or after experience??

- Level and content of training?
- Clinical knowledge and skills appropriate for role and context
- Professional behaviours e.g. leadership, quality improvement, resear
- Apprenticeship, academic, hospital or community based training?
- Online, face to face, blended?
- Are qualification(s) needed for competence/confidence, to practice family medicine, to teach, to advance career
- Grandfather's rights for established family doctors??


## Respect grows: patients colleagues

Nephrologist:
"I would like you to take these new tablets"

Patient:
"I will check with my family medicine doctor first"

## Nephrologist:

Sighs but recognises that the family doctor knows the whole picture

## Quality standards: "good enough"

- Aspire to excellence but must be adequate for your context
- Grading of standards or pass/fail?
- UK grading: inadequate, requires improvement, good, excellent
- Standards acceptable to all stakeholders
- Standards will change over time e.g. as overall quality improves
- Results available to whom? Public as well as inspectors???


## What happened?

2020 Remote project pivoted to Covid

- Graduates from 2018 supported new groups in-country as co-trainers
- Links with secondary care, public sector clinics, NGOs developed

Quality circles grew, group practices formed, less professional isolation, happier GPs Fed into government reaccreditation and CPD discussions

- Agreed CPD included active learning and quality improvement NOT just lectures Fed into masters development
- Quality improvement project instead of traditional research thesis WONCAAsia Pacific Conference planned for 2021 in Myanmar.

2021 Myanmar coup: central role of GPs founded on collaborations developed

## 3. Appropriate professional skills

 Family Medicine as a specialityUndergraduate training - the evolving influence of family medicine

- Placements in community medicine and family practice
- Teaching of other subjects by family medicine doctors e.g. consultation skills
- Teaching of family medicine by other specialities/enthusiasts
- Separate department of family medicine developed
- Teaching of family medicine by family medicine specialists
- Teaching of much of the undergraduate syllabus in and by family medicine specialists (Some UK courses now mostly taught in primary care)


## Maintaining standards of individual

## - Licencing

- Re-licencing and revalidation might include:
- Appraisal
- CPD
- Active learning e.g. quality improvement, significant events, feedback
- Tests of clinical competence
-Who sets standards for continuing practice?
-Who regulates?
- The profession, the public, the press through "stories of malpractice", the state


## 4. Integration of family medicine into national health systems

## Across levels

- Community health workers, allied health professionals, doctors
- Primary care and hospitals


## Across providers

- Public, private, charities, non-governmental organisations (NGOs)

Family medicine integrates care across all ages and across social, psychological, physical problems

- It is NOT condition specific e.g. HV
- It is NOT agelsex specific e.g. child and maternal health

Integration needs collaborative discussions, mutual trust, agreed strategies, pragmatic workable systems e.g.

Payments into private practice

- Essential Packages of Health Services (EPHS)
- Social franchises
- Specific problems e.g. TB, vaccinations integrated with community health

Referral protocols

- Informal or formal agreements: e.g. paediatrics, emergencies, chronic disease
- Shared records: minimum of letters between doctors - hope for electronic
- Practicalities e.g. bed and transport availability
- Cost barriers to the patient mitigated


## Primary care teams led by GPs

Figure 1 Where do NHS community health services fit within systems
that support health and care? that support health and care?


## Cardiac Investigations and Top Tips in when to refer into Cardiology

Professor Ahmet Fuat, PhD FRCGP FRCP (London) FRCP (Edinburgh) PGDiP (Cardiology)
GP, GP Appraiser and GPSI Cardiology, Darlington
Honorary Consultant in Cardiology, Co. Durham and Darlington Foundation Trust
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President Primary Care Cardiovascular Society
CVD Clinical Advisor RCGP London
North East and North Cumbria Clinical Research Network GP Engagement and Industry Lead
Cardiology and Research Leads Darlington PCN and PHD
Executive committee Durham Darlington and Tees Valley Research Alliance
Executive committee P3 Primary Care Research Collaborative Newcastle Hospitals Trust
Honoraria andor expenses received from the following pharmaceutical companies for attending conferences
and advisory boards and delivering educational lectures: Alere, Amgen, AstraZeneca, Bayer, BrisMyers
Squibb, Boehringer Ingelheim, Daiichi Sankyo, Eli Lilly, GlaxoSmithKline, Merck Sharp \& Dohme, Novartis,
Pfizer, Roche, Roche Diagnostics, Sanofi and Servier.
NICE HF and ESC MI guidelines committee member and aothor, NICE HTA adviser, NICE HF QOF indicators
GPSI adv iser, RCP, RCGP, BSC, BSH and BHF advice, PHE/CV Leadership Forum member.
Research grants: Research for Patient Benefit: British Heart Foundation, Heart Research UK, National Institute
for Health Research Servier, Roche

[^2]











| Atrial activity? |  |
| :---: | :---: |
| Regular Pulse | Progression of AF <br> Progression of $A F$ is thought to be driven by structural changes in the atria including electrical, contractile changes, known as atrial remodelling |
| There is a national programme across England to tackle the issue of AFrelated stroke's | Rationale behind AF screening |
|  | - Common condition <br> - Frequently asymptomatic or little symptoms <br> - Grave consequences if undetected: <br> - Thrombo-embolic disease <br> - Tachycardia induced cardiomyopathy <br> - Test is acceptable and non invasive <br> - Effective treatment is available |
| In mexis |  |
| SAFE Trial $\qquad$ |  |










Leading the world to better health

## Medical ethics and the Family Physician

Prof David Misselbrook

RCSI Bahrain
March 2021
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The aim of this session is to enable colleagues to use the ethical principles of:

- Beneficence
- Nonmaleficence
- Justice
- Respect for Autonomy
in challenging situations in professional practice

Personhood:
The bio- psycho-social model
Doctors shouldsee the whole picture
Doctors need todeal with the whole picture




| Patient expectations <br> "Doctor - my child has a cough." | Patient expectations <br> "Doctor - my child has a cough. He always needs antibiotics" |
| :---: | :---: |
| Patient expectations <br> "Doctor - I my child has a cough. He always needs antibioti"'s Our job is to build a bridge.... within a long term relationship of trust | Respect for autonomy: <br> J.S.Mill 1806-73 <br> "Over himself, over his own body and mind, the individual is sovereign" ${ }^{4}$ |
| Autonomy: <br> Every adult has competence to take Mubah (permissible) decisions relating to their own life, unless there are genuine reasons otherwise. |  |
| RECOMMENDATIONS FOR ASSESSING CAPACITY ${ }^{5}$ <br> 5. Hope T, Savulescu J, Hendrick J, (2aaedical Ethics and Law: The Core Curriculum76-81 | CONFIDENTIALITY <br> - Confidentiality is prima facie ethical obligation in $21^{\text {st }}$ century healthcare: it must be fulfilled UNLESS it conflicts with an equal or stronger obligation. <br> - "It is ethical to disclose confidential information when the patient consents to it or when there is a real and imminent threat of harm to the patient or to others and this threat can only be removed by a breach of confidentiality." <br> WMA International Code of Medical Ethics |



| Principles may clash | Principles may clash |
| :---: | :---: |
| To practice wise medicine ethically we need the right character traits... ${ }^{8}$ <br> Edmund Pellegrino 1920-2013 <br> - Trustworthy and keeping our and promises <br> - Wanting to do good <br> - Being unselfish <br> - Compassion and caring <br> - Intellectual honesty <br> - Justice <br> - Practical wisdom <br> 8. Towards a VirtueBased Normative Ethics for the Health Professionkennedy Institute of Ethics | Two controlling virtues in $21^{\text {st }}$ Century medicine? ${ }^{9}$ <br> - 1. Phronesis, or practical wisdom. As doctors we possess many guideli ines, which may well help in strai ightorward situations. But the real world is too complex to navigate with guidel ines alone. Phronesis outperforms algorithms and rulebooks. <br> - Phronesis seeks the wise course in the patient's best interest Evidence and guidel ines often relate to linear rules; "iff $A$ is $X$ then do $Z$ ". The real world d presents us with complex situations; "A is approximately X but we do not know if B is currently y or W and it seems likely that D and E will influence this situation in ways that may be difificult to predict". <br> - Remember autonomy -different patients have different priorities. <br> 9. Misselbrook D. The virtuous professional and the marketplacEhapter 9 in Eds Feiler T, Horden J and PapanikitasA Marketisation, ethics and healthcarkondon: Routledge, 2018 |
| Two controlling virtues in $21{ }^{\text {st }}$ Century medicine? ${ }^{9}$ <br> 2. Compassion should be the second controlling virtue for the doctor. Compassion leads to care. <br> If healthcare is not a caring profession it is nothing. | The moral analysis of action $\$^{0}$ <br> We can see the three main secular moral systems as gMing guldance at the three different levels of an act: <br> Outcome in the world <br> the agent <br> he act <br> the consequence <br> virtue <br> deontology <br> consequentialism <br> Virtue guides our choice in the end or motive of an act. <br> Deontology guides our cholce regarding the nature of an act itself <br> Consequentialism guides our choice when we take into account the specific circumstances of <br> 10. Misselbrook D. Virtue ethics an old answer to a new dilemma? Part 2. The case for inclusive virtue ethics. <br> Joumal of the Royal Society of Medicin2015, Vol. 108(3) 8992 |
|  |  |


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[^1]:    ${ }^{2}$ PHCCs: Primary Health Care Centers
    ${ }^{6}$ Benchmaik: is data obtained from 935 U.S. medical offices of different specialties, most categorized as Family Practice (391 offices) [23]
    ${ }^{\text {c }}$ Negatively worded items

[^2]:    for Health Research Servier, Roche

