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PRINCIPLES OF PRIMARY HEALTHCARE

Cindy L.K. Lam

Danny D.B. Ho Professor in Family Medicine

Department of Family Medicine & Primary Care

The University of Hong Kong

clklam@hku.hk





PRESENTATION OUTLINE

- Core Values of Primary Healthcare (PHC)
- PHC Principles of
 - Health for all
 - Preventive care
 - Person-centred care
 - Multi-disciplinary care





PRIMARY HEALTHCARE

- Primary <u>health</u>care is the essential health care made universally available to individuals and families, which <u>includes public health &</u> <u>self-care</u> (WHO 1978)
- Primary care is the first point of contact of the <u>professional</u> health care system. (AAFP 2009) - family doctors, specialists, CMP, A&E, other health professionals



VALUE OF PHC - POPULATION

- Health systems with strong primary healthcare are most cost-effective
- Primary care provided by family doctors/ GPs are most cost-effective¹
- A higher supply of GP/FP, but not other primary care doctors, was associated with
 - More equity of care²
 - lower mortality rates^{2,3}
 - higher early cancer detection rates^{4,5}
- 1. Franks P, Fiscella K. J Fam Pract 1998; 47:105-9
- 2. Shi L, Macinko J, Starfield B et al. J Am B Fam Pract 2003; 16:412-22.
- 3. Gulliford, M.C., J Pub Health Med 2002; 24:252-4
- 4. Campbell RJ, et al. Fam Med 2003; 35:60-4
- 5. Ferrante JM, et al. Am B Fam Pract 2000; 13:408-14





VALUE OF PHC - INDIVIDUAL

Having a Family Doctor in HK

- Better outcomes of consultations¹
 - Patient enablement
 - Person-centered care addressing concerns & expectations
 - Preventive care (healthy life style, screening)
 - Recommendation of doctor to family & friends
- More effective gate-keeping²
 - Fewer A&E visits
 - Fewer hospital admissions
 - More likely to consult the usual doctor
- 1. Lam C.L. K., et al. Front. Med. 2014; doi: 10.3389/fmed.2014.00029.
- 2. Fung CSC., Lam CLK et al. BMC Health Services Research 2015.





CORE VALUES OF PHC - DECLARATION OF ALMA-ATA



WHO/UNICEF International Conference on PHC, The Lenin Place, Alma Ata, USSR. 6-12 September, 1978

Primary Health Care

- is the key to health for all
- should be universally accessible
- addresses the main health problems
- promotes self-reliance
- should be sustained by a mutually supportive referral system
- requires multi-professional team work





CORE VALUES OF PHC - WHO WORLD HEALTH REPORT 2008



Four reforms to translate "health for all" from aspiration to implementation

- Universal coverage: ↓ service gaps & fees
- 2. Service delivery: comprehensive & skilled
- 3. Public policy: financing & resources
- 4. Leadership: collaborative & strategic





CORE VALUES OF PHC - ASTANA DECLARATION, WHO 2018

- Governments and societies that prioritize, promote and protect people's health ... through strong health systems;
- PHC & health services that are high quality, safe, comprehensive, integrated, accessible, available and affordable ... by health professionals who are welltrained...;



- Enabling and health-conducive environments in which individuals and communities are empowered ...;
- Partners and stakeholders aligned in providing effective support to national health policies, strategies & plans.





SCOPE OF PRIMARY HEALTHCARE

- Care for all & at all times: care continuum from health to sickness
- Preventive care: case finding to address the main health problems & target the at-risk
- Person-centred care: bio-psycho-social needs, enable & empower self-reliance
- Multi-disciplinary care: integrative, high quality, safe, comprehensive & collaborative





MADAM IP

71 year-old divorced retired waitress living with her son; health screening found:

TC 8.1, HDL1.9, LDL 5.53 ,TG 1.5 mol/L; TC/ HDL = 4.3

She was asymptomatic and had no past or family history of HT/DM/CVD. She does not smoke and her BP was 120/80

10 year CVD risk = 11.4%





MANAGEMENT OF MADAM IP

- She was advised on diet and exercise
- Her son supervised her diet closely
- Her weight decreased from 49 to 45 Kg in 3 months.

Video: Let's hear Madam Ip





CARE FOR ALL

Care continuum to meet the changing needs from health to sickness

- Asymptomatic → Prevention & screening
- Symptomatic → Accurate diagnosis
- Diagnosis → Appropriate effective management
- Chronic illness→ Monitor coping, control, prevent complications & optimize management
- Multi-morbidity → Prioritize, co-ordinate & integrate
- Complications → Rehabilitation, support & care





CONTINUITY OF CARE – PERSONAL & SYSTEM

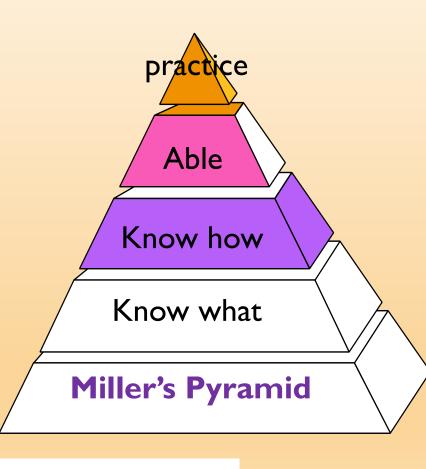
Build up a mutual trusting relationship

- Personal family doctor & PC home
- Accumulate medical & personal Hx
- Communicate effectively
- Improve diagnostic precision
- Enhance management adherence
- Use time as a diagnostic & therapeutic tool
- Co-ordinate & facilitate care of multiple illnesses and disciplines





PREVENTIVE CARE



- Informed choice
- Joint decision making
- Empower & enable change
- Engage the right person at the right time & context
- Consistent & persistent information
- Evidence-based





PRINCIPLES OF SCREENING

WILSON J.M..G, JUNGNER WHO, 1968

- I. Should be an important health problem
- 2. An accepted treatment, which makes a difference to the outcome
- 3. Facilities for diagnosis & treatment should be available & accessible
- 4. A recognizable latent or early symptomatic stage
- 5. A suitable (and accurate) test or examination
- 6. Test should be available & acceptable to the population
- 7. The natural history from latent to disease should be understood
- 8. An agreed policy on whom to treat as patients
- 9. The cost (& potential harm) of case-finding balanced against benefit
- 10. Case-finding should be a continuing process





THE ARROGANCE OF SCREENING

(SACKETT D.L. CMAJ 2002; 167:363-4)

Aggressively assertive

- Target the asymptomatic
- Turn the 'well' to the 'ill'

➤ Presumptuous

- Intervention is beneficial
- Benefit is more than harm

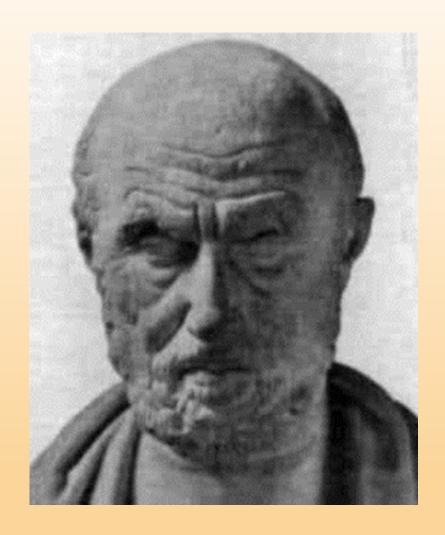
➤ Overbearing

- Critical of those who don't conform
- ➤ Expensive

FIRST DO NO HARM







"It is more important to know what sort of person has a disease than what disease a person has."

Hippocrates (460-377 BC)





PERSON-CENTRED CARE (1)

Bio-psycho-social Diagnosis

- Biology: physiological constitution, health risk, illness, comorbidity
- Psychology: beliefs, perspective, expectations, feelings, fears, suffering
- Social: culture, experience, norm, family function & dynamics, peers, work, role functioning, ADL
- R.I.C.E.: Meaning of health & illness to the patient /family
 - Reason for consultation/ no consultation
 - ideas, concerns & expectations (I.C.E.)





PERSON-CENTRED CARE (2)

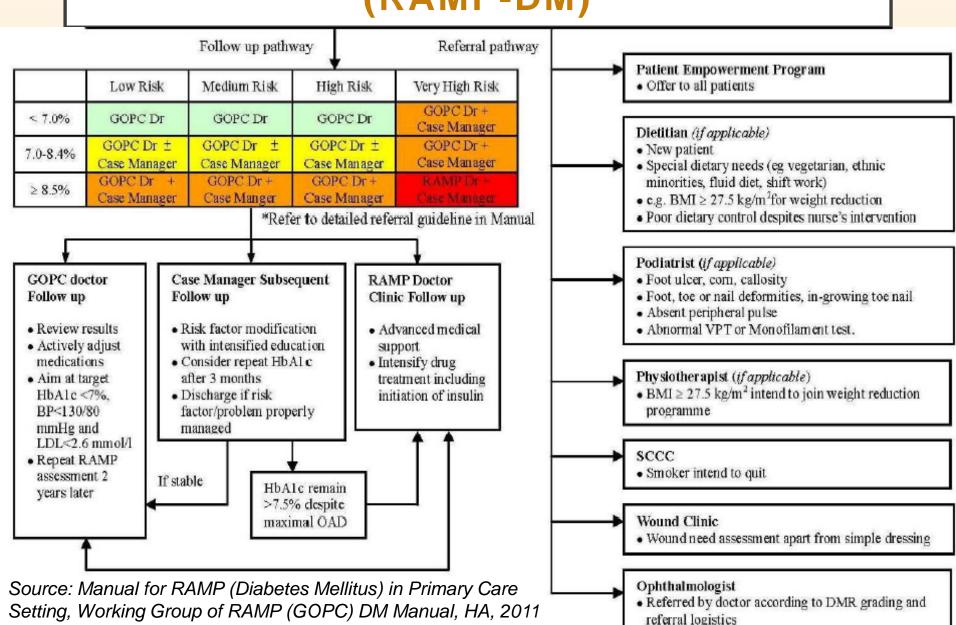
Patient-centred Management

- Self-reliance & control (empowerment)
- Individualized benefit to harm ratio
- Address the R.I.C.E. of patient & family
- Respect patient autonomy with informed choice & joint decision making
- Acceptability & feasibility
- Side effects & impact on patient/family
- Outcomes of health & quality of life





RISK ASSESSMENT & MANAGEMENT (RAMP-DM)



MULTI-DISCIPLINARY PC SAVES LIVES

Observed Events in 5 y 2009-2013	ARR (RAMP-DM Vs. Usual Care)	NNT	HR†
Any complications	Ψ -13.05%	8	0.597*
CVD	Ψ -11.64%	9	0.509*
CHD	Ψ -7.78%	16	0.448*
Heart Failure	Ψ -4.69%	21	0.442*
Stroke	↓ -3.29%	30	0.641*
ESRD	Ψ -0.77%	130	0.444*
STDR	Ψ -1.41%	71	0.496*
All-cause mortality	Ψ -13.39%	7	0.438*

ARR: Absolute risk reduction; NNT: Number Needed to Treat;

8,570 RAMP-DM subjects and 8,570 usual care subjects were matched by propensity score

† HR Hazard ratio < 1 indicates risk reduction for events compared to usual care group, by Cox regression adjusted for socio-demographic and clinical characteristics

* Significant differences p<0.05 compared to usual care group





MULTI-DISCIPLINARY PC SAVES COST

_	Cost per DM subject (HKD)		
Public Service	RAMP-DM (N=8570)	Usual care (N=8570)	Difference
RAMP-DM set-up cost (mean)	41	N.A.	41
RAMP-DM administrative cost	5	N.A.	5
RAMP-DM ongoing cost over 5y	1,222	N.A.	1,222
Public health care cost over 5 y	94,461	152,573	-58,112
Total costs over 5 years	95,725	152,573	-56,848

Projected to 62,940 uncomplicated DM patients enrolled to RAMP 2009 – 2011: HA saved 3.5 billion & reduced 8,991 deaths & 7,867 DM complications from 2011-2015





MULTI-DISCIPLINARY RAMP

Assessment & diagnosis

 Risk, disease or complication diagnosis

Risk/ needs stratification



 Individualized counselling & interventions based on need

Usual/ Multidisciplinary Management

 Enhanced health / disease control





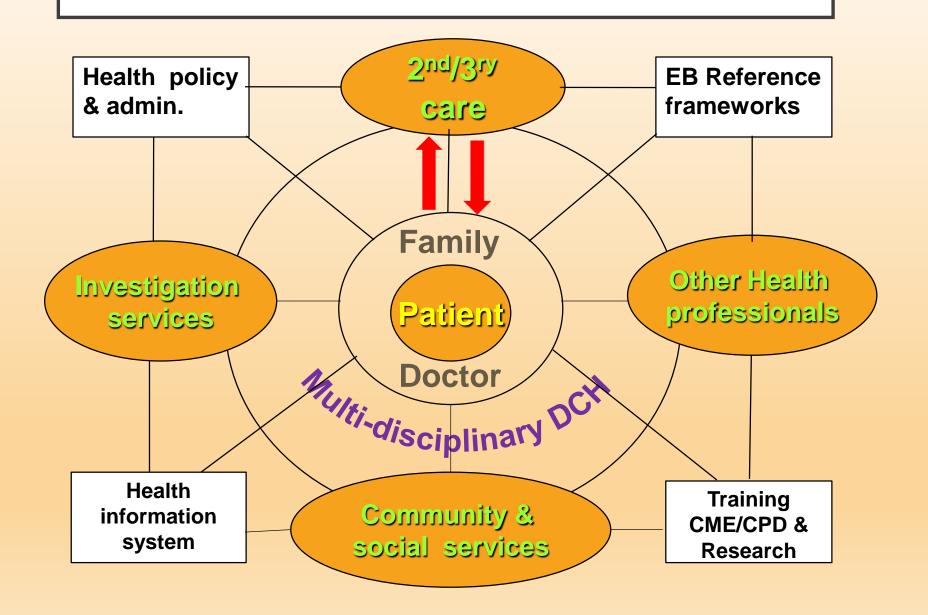
MULTI-DISCIPLINARY PHC

- Not every person needs multidisciplinary care
- A person may need multidisciplinary care only some of the times
- The key to success is individualized, prioritized & integrated care
- Beware of the burden of care on the patient
- Beware of fragmentation/ compartmentalization of care

MORE IS NOT ALWAYS BETTER



INTEGRATIVE PRIMARY HEALTHCARE



Primary Health Care Patient-centred

(what sort of person, illness, comorbidity & social context)

(continuity to meet changing needs)

Preventive care

(first do no harm, empowerment & enablement)

Multi-disciplinary

(more is not better Individualized, Integrative, FD linked)



"The flapping of the wings of a distant butterfly can influence the occurrence of a tornado...."

Edward Lorenz (1917-2008)



