

基督教聯合那打素社康服務 WINITED CHRISTIAN NETHERSOLE COMMUNITY HEALTH SERVICE

Non-profit & self-financing model of Diabetes complications screening & follow up care in the community of Tai Po

Symposium on Community Engagement III "Creating Synergy for Community Health"

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What is the nature of "United Christian Nethersole Community Health Service"?

- UCN for short
- Non-governmental organisation (NGO) under the United Christian Medical Service
- 1972: established in Kwun Tong
- 1997: merged with Nethersole CHS in Tai Po
- Sister organisation to United Christian Hospital, Nethersole group of hospitals





Our organisation

- Core function essentially primary care medical and health
- Primary medical clinics focus on Family medicine, Community medicine, Occupational medicine
- Other services include dentist, dietitian, physiotherapy, Chinese medicine and outreach





Diabetic Mellitus Complication Screening Service (DMCS)

糖尿病倂發症檢查

Started since 2003 in Tai Po

 Generous donation from Sir Robert Hotung Foundation for retinal camera









DMCS 糖尿病倂發症檢查

- Purpose is to make essential preventive checkup service for diabetics easily accessible and affordable in the community
- Prevent blindness, kidney disease, foot disease – common in diabetes
- Relieve burden from the public hospital sector by giving a low-cost alternative
- Follow up care arranged









Logistics of the screening service

- Run by trained Health Maintenance Officers (HMO) and Registered Nurse (RN)
- Doctor in supporting role
- Price ranges from \$200 for retinal photo only and \$720 for full package
- Fees charges on cost recovery basis







Logistics of the screening service

- Encourage uptake of essential preventive checkup
- Referral from any health professional or concerned persons
- Self-referral welcome
- Full explanation of results & provide follow-up arrangement – to private or public as per client request







DMCS package components

- Questionnaire for basic health information related to DM
- Non-mydriatic retinal photo
- Microalbuminuria screening









DMCS package components

- Diabetic foot complication screening
- Blood tests for HbA1c, fasting glucose, lipid profile, liver function, renal function and electrolytes









Service options

- DMCS packages ranges from \$200 to \$720
- Dietitian counseling \$260 per hour (\$200 for elderly)
- Nurse Diabetes education
- Diabetes patient support group - free
- Chronic diseases clinic for medical treatment available

糖尿病併發症檢查項目 Diabetic Complication Screening Package

	DM-01	DW-02	DM-93	DM-04	DM-05	Ret Ins I Prioto 酰试程
血壓/原揮	×	×	X.	8.	Ϋ́	
6Mi 陸重指数	X;	X	<u>×</u>	×	80	
FAT % Mass	×	30	Ŋ,	X i	ΧĊ	Yangin ing man
WHR 膜闡製剛比例	×	35	X	8	8	in plant
VA 複力	X:	X	X	X)	:8:	- 28
Tonometry 眼寒梅毒	ж	XI.	X		×	Carlos av
Retinal Photo 限底相	X.	X	X.		3X	X
Foot assessment 定部野	X.	X	X	30	®.	F-E-L
FBS 空殿血精	X	28		38		
HbA1C 醇化血红素	x	ēΧ		24	X	
TC 注题固谓	33	×		N		
LDL 佐密度機画聲	×	33		×		
HDL 高密度跨国語	ж	×		×		
TG 三酸甘油脂	28	×		3%		
Creatinine 汎敲酐	×	×		38		100
ALT 谷丙烷氨醇	x	ж		×		
K 輝/ Na 統	20			×		
Microalbuminusia 尿液微蛋白核酶	X	×		×	ĸ	
History taking 個人及家族與史	×	×	X	×	X:	X:
*Report giving 講解報告	×	×	Х	×	X.	81 11

^{*}報告由註冊西醫審閱簽署





Work flow for DMCS reporting

Doctors

- reading the retinal photos and relevant investigation results
- writing comments and recommendations on the reports
- Health Maintenance
 Officers (HMO) or
 Registered Nurse (RN)
 - explain the DMCS reports to our clients











Work flow for DMCS reporting

- For those cases referred by our own clinic doctors
 - the reports will be sent back to our doctors for explanation during follow-up
- For those cases referred by external doctors
 - reports sent back to that doctor for explanation & follow-up









Staff training & quality assurance

- Retinal photo reading by doctors x 2
- Doctors trained by Ophthalmologist
- Photo interpretation backup by Ophthalmologist
- Regular refresher training
- Doctor trains HMO's and RN's

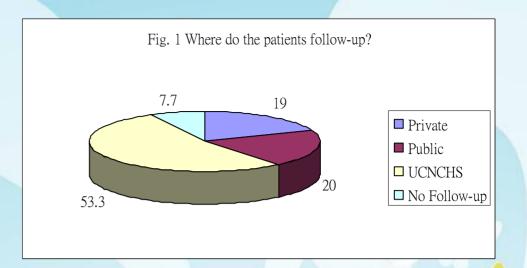








Statistics



- On average, about 20 cases per month
- Referral source include self referral, referrals by our UCN doctors, GOPC, private doctors (very few)
- Follow up of these DM cases include private, public, our UCN doctors, or no follow-up (Fig. 1)

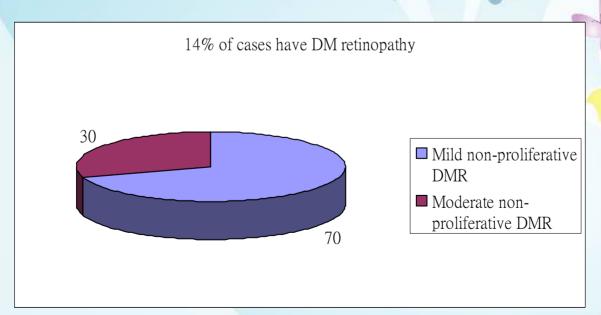






社區糖尿病倂發症普查計劃 Dr. Ruby K.C. Lai, Dr. Angus Y.T. Hung (KFCHC)

- A study on the cases from 2004 to 2006
- There are 400 cases
- 14% have DM retinopathy (DMR)

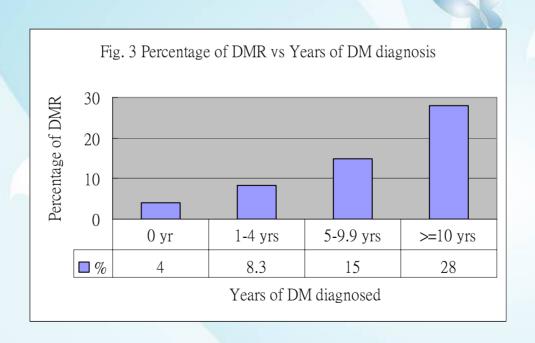








- Percentage of DMR increases in proportion to the years of DM being diagnosed
- Even at initial diagnosis 4% have DMR
- 28% have DMR >=10 years of DM diagnosis









Service expansion to Diabetes management centre

Until end of 2007

- We have a total of 495 cases of DMCS done in Tai Po Clinic already
- Started retinal photo alone service by referral from HA









Service expansion to Kwun Tong

Since March 2008

- DMCS service also in Kwun Tong: Jockey Club Wo Lok Clinic
- with donation of equipment from Operation Santa Claus









Referral is simple!

- Anybody can refer
- Welcome private doctor referrals
- HA clinics can also refer
- Self-referral welcome
- Make appointment by phone
- Health care professionals may use referral form - download







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糖尿病併發症檢查轉介表格

(祖通用於捷尿病患者) 歡迎自我個景顯介

鸭介日期:	
轉介西醫:	
轉介診所地址及電話:	
病人聯絡電話:	
病者姓名:	
年齡/性別:	
糖尿病診斷日期:	
轉介西醫簽署:	
請園出適當的答案	
以往曾否於廣福社區健康中心拍攝眼底相	有/沒有
現時治療: 飲食控制/口服藥物/胰島	素注射/
過往病歷: 口服藥物+胰島素注射	
糖尿病視網膜病變	有/沒有
冠心病	有/沒有
中風	有/沒有
腎病	有/沒有
高血壓	有/沒有
高血脂	有/沒有
報告請寄回轉介西醫	是/否
轉介(請√選擇)視網膜檢查 糖尿病併發症檢查,項目	

表格傳真至廣福/賽馬會和樂社區健康中心為病人 日期。傳真後請致電各所屬中心確保接收無誤。

傳真: 2638 - 0142

雷話: 2344 - 3444 傳算: 2342 - 5023



Conclusion (1)

- Diabetes cases increasing in HK
- Availability of low-cost preventive services at primary care level can reduce burden of disease
- Self-finance model possible with sponsorship for capital equipment
- Non-profit nature of UCN makes preventive service at primary care level in the community affordable & accessible







Conclusion (2)

- Screening should be paired with follow-up care arrangement
- Referrals from all health professionals, concerned persons and self-referral welcome & facilitates uptake
- Welcome HA to refer their cases to the service











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Thank you!

DMCS 糖尿病倂發症檢查

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