Demonstration of the eHR Viewer

Unveiling the eHR Seminar 9th Mar 2016



Clinical Workflow

- During the course of clinical work, a lot of data is generated
- Need to collect this data, and allow users to view it as historical data



Clinical Workflow II

- Ordering Tests (Laboratory / Radiology / etc)
- Test results
- Diagnoses
- Prescribing medication
- Dispensing medication
- Procedure records
- Important things about the patient (identity, allergy, etc)
- Clinical summaries (response to treatment, etc)



Making Stored Data Accessible

Data Compliance Levels

- Level I: Unstructured
- Level II: Structured, local terminology table
- Level III: Structured, internationally recognized terminology table



International Taxonomy of Clinical Systems

- eMR: systems for entering data

 ("CMS") Clinical Management System
- ePR: systems for reviewing data
- eHR: centralized platform for reviewing crossenterprise data



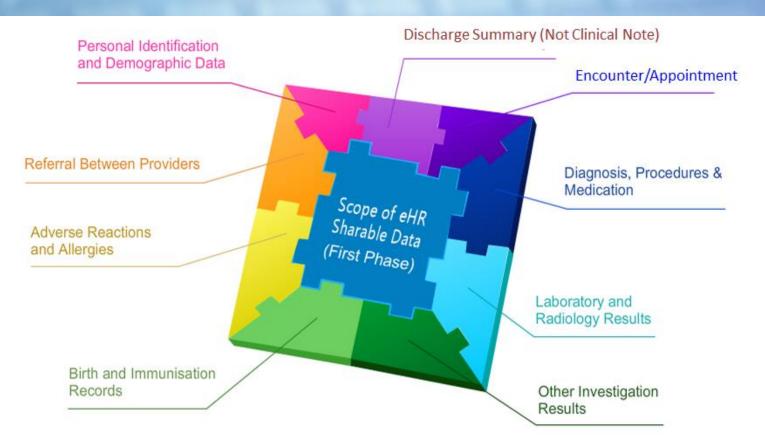
In Hong Kong's eHR Sharing System (eHRSS),

the front-end GUI

"eHR Viewer"



Scope of eHRSS Sharable Data





eHR Logon page



User Name 用戶名稱

Important Reminder

- All eHR healthcare recipient information is strictly confidential
- 2. Use only for authorised purposes
- 3. All access to eHR Viewer is logged
- 4. Please logout immediately after use
- Please ensure you have verified the content before you sign the computer printouts
- 6. Please change your password on a regular basis

重要提示

- 1. 病人資料必須保密
- 2. 只允許授權的操作
- 3. 所有對醫健通檢視系統的操作均會被記錄

Enter User name

- 4. 使用網站服務後,請立即登出系統
- 5. 簽署文件前,請先細心核對內容
- 6. 請定期更新用戶密碼



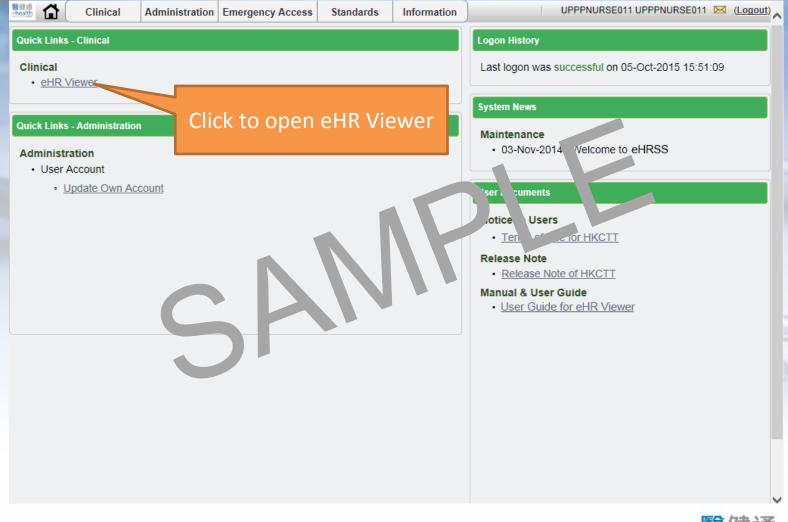
Enter password & token passcode



Password	
Token Passcode	



eHR landing page



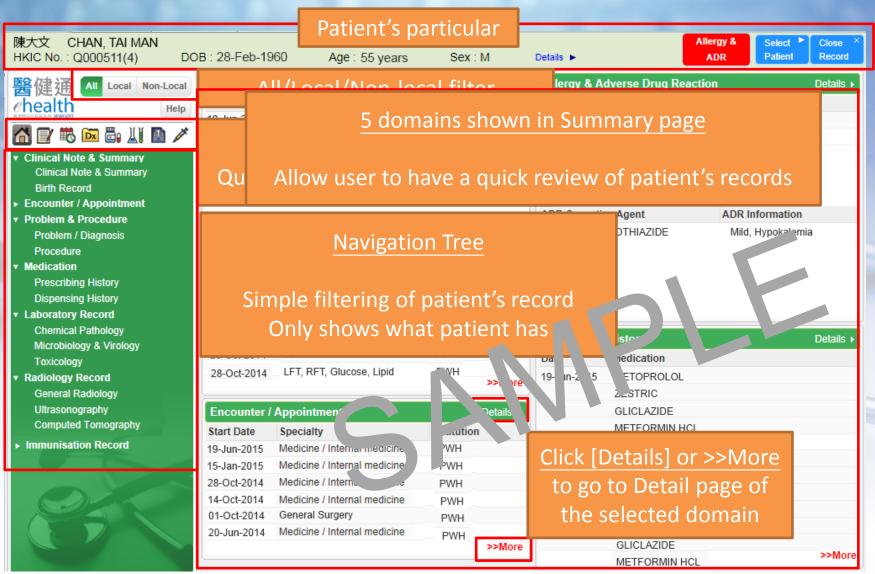


Select patient

Please select patient		Select Close × Patient Record
	Patient Selection Panel Fill in ONE of the following items	ADR Information
	Laborat • ID Doc Type HKID Card Date ID Doc No. (
	Smart ID Encounter record will be created for eHR patient Submit Cancel Encounter representation	edicatio
23	Start Date Specialty Constitution	

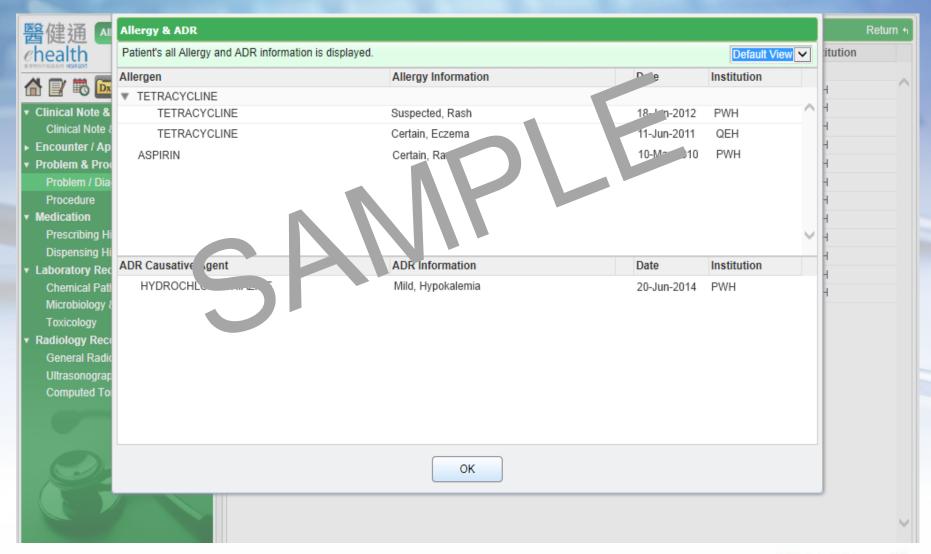


Summary page





Allergy & ADR Record





Problem / Diagnosis

醫健通 [▲] Local ℓhealth	Non-Local Help	Problem / Diagn		Default	View 🗸
會培特的行動畫動用 HISAR GOVT		Date 🜩	Description	+ Institution	÷
🚹 🗊 🕫 🖾 🖧		19-Jun-2015	Diabetes mellitus	PWH	
 Clinical Note & Summary 		19-Jun-2015	Hypertension	PWH	
Clinical Note & Summar		01-Oct-2014	Appendicitis	PWH	
Encounter / Appointment	t	23-Mar-2009	Acute gastritis	QEH	
 Problem & Procedure Problem / Diagnosis 		07-Jun-2008	Bronchitis	QEH	
Procedure ▼ Medication Prescribing History Dispensing History ▼ Laboratory Record					
Date 🔶	Desu.	-puon		\$ Institution	\$
19-Jun-2015	📋 Diabe	tes mr litus		PWH	
19-Jun-2015	📔 Hyper	tension		PWH	
01-Oct-2014	Appen	ndicitis		PWH	
23-Mar-2009	Acute	gastritis		QEH	
07-Jun-2008	Bronch	hitis		QEH	
25					



Problem / Diagnosis

醫健通 All Local Non-Local	Problem / Diag	nosis Details	Return 🖣
ehealth Help	Date	Diagnosis Description	Institution
	Diabetes mellitu	s	
삼 🗊 🕫 🖾 🖧 🖉	19-Jun-2015	Diabetes mellitus	PWH
 Clinical Note & Summary 	15-Jan-2015	Diabetes mellitus	PWH
Clinical Note & Summary	20-Jun-2014	Diabetes mellitus	PWH
Encounter / Appointment	16-Jan-2014	Diabetes mellitus	PWH
Problem & Procedure	21-Jun-2013	Diabetes mellitus	PWH
Problem / Diagnosis	17-Jan-2013	Diabetes mellitus	PWH
Procedure	22-Jun-2012	Diabe* mellitus	PWH
 Medication 	18-Jan-2012	Diabet h 'litus	PWH
Prescribing History			
Dispensing History			
Laboratory Record			
Chemical Pathology			
Microbiology & Virology			
Toxicology Radiology Record			
General Radiology			
Ultrasonography			
Computed Tomography			
compared remography			
			U
			*



Procedure

陳大文 CHAN, TAI HKIC No. : Q000511(4		Allergy & Select Close ADR Patient Record
醫健通 All Loca	al Non-Local Procedure	
ehealth	Help	Default View 🗸
A 🕑 🕫 🗖 🖏	Date	♦ Institution ♦
 Clinical Note & Summ 	CI-OCI-2014 Eaparoscopic appendicectomy	PWH QEH
Clinical Note & Sum		QEH
 Encounter / Appointm Problem & Procedure Problem / Diagnosis Procedure Medication 		
Date 🔶	Desc intion	♦ Institution ♦
01-Oct-2014	Laparoscopic pp_ndicectomy	PWH
23-Mar-2009	Oesophagogastroduodenoscopy with biosy	QEH
07-Jun-2008	Bronchoscopy	QEH
Ultrasonography Computed Tomography	phy	



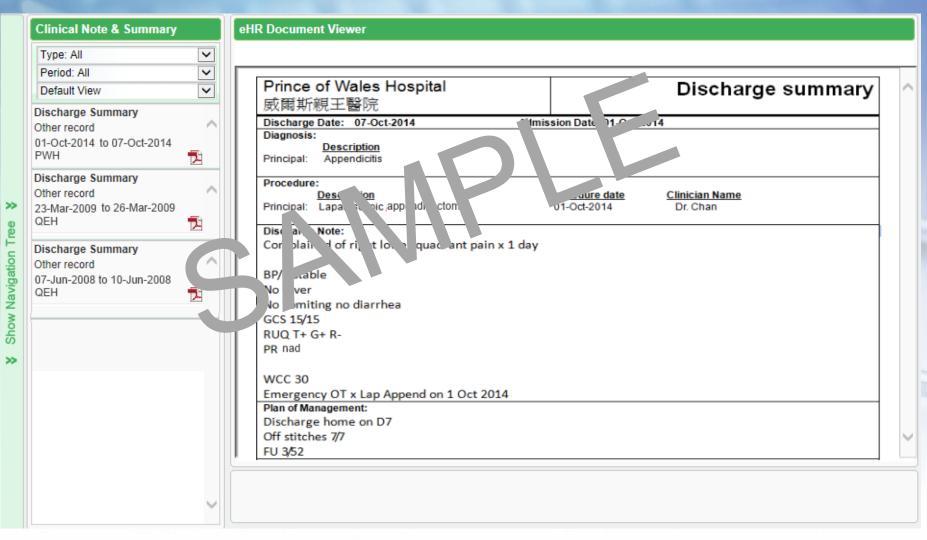
Encounter / Appointment



					Default Vie	ew
tart Date 🔷 🔻	End Date	Specialty	Institution	Type	\$ Status	\$
9-Jun-2015		Internal Medicine	PWH	Outpatient	Attended	
5-Jan-2015		Internal Medicine	-WH	Outpatient	Attended	
8-Oct-2014		Inter Med ne	P۷	Outpatient	Attended	
4-Oct-2014		Inter al la dicin	PWH	Outpatient	Attended	
-t-2014	07- +-2014	C. ne al Supery	PWH	Inpatient	Attended	
n-Jun-2014		Internal Medicine	PWH	Outpatient	Attended	
i-Jan-20 4		Internal Medicine	PWH	Outpatient	Attended	
1-Jun-2013		Internal Medicine	PWH	Outpatient	Attended	
7-Jan-2013		Internal Medicine	PWH	Outpatient	Attended	
2-Jun-2012		Internal Medicine	PWH	Outpatient	Attended	
3-Jan-2012		Internal Medicine	PWH	Outpatient	Attended	
3-Mar-2009	26-Mar-2009	9 Internal Medicine	QEH	Inpatient	Attended	
1-Jun-2008	10-Jun-2008	Internal Medicine	QEH	Inpatient	Attended	



Discharge Summary





Laboratory Record

醫健通 All Local Non-Local	Laboratory Rec	ord		
Chealth Help	Date View Doo	cument View Chemical Pathology	Last 2 years	Default View
🚹 📝 🗟 🖬 🖏 🛄 🐚 🗡	Date 👻	Profile Description		♦ Institution ♦
Clinical Note & Summary	19-Jun-2015	🔁 CBP		PWH
Clinical Note & Summary	19-Jun-2015	🔁 LFT, RFT, Glucose, Lipid		PWH
 Encounter / Appointment 	15-Jan-2015	🔁 СВР		PWH
✓ Problem & Procedure	15-Jan-2015	🔁 LFT, RFT, Glucose, Li,		PWH
Problem / Diagnosis	28-Oct-2014	🔁 СВР		PWH
Procedure	28-Oct-2014	🔁 Ll 🛛 FT, Gluc 🕫 Lipid		PWH
 Medication 	14-Oct-2014	🔁 СВ	₩°	PWH
Prescribing History	14-Oct-2014	🕄 LFT, FT, luc se, L id		PWH
Dispensing History	01-0 2014	SBP		PWH
 Laboratory Record 	01-Oct-2014	🗾 L 🛛 RF , Glucose, Lipid		PWH
Chemical Pathology	20-JUN-21 4	T CBP		PWH
Microbiology & Virology	20-Jun-2 ^r 4	🔁 LFT, RFT, Glucose, Lipid		PWH
Toxicology	2014	🔁 CBP		PWH
▼ Radiology Record	16-Jan-2014	🔁 LFT, RFT, Glucose, Lipid		PWH
General Radiology	21-Jun-2014	🔁 СВР		PWH
Ultrasonography Computed Tomography	21-Jun-2014	🗒 LFT, RFT, Glucose, Lipid		PWH
Computed Tomography	17-Jan-2013	🔁 СВР		PWH
	17-Jan-2013	🔁 LFT, RFT, Glucose, Lipid		PWH
	22-Jun-2012	🔁 СВР		PWH
	22-Jun-2012	🔁 LFT, RFT, Glucose, Lipid		PWH
	18-Jan-2012	T CBP		PWH
	18-Jan-2012	🔁 LFT, RFT, Glucose, Lipid		PWH



Laboratory Record



- Clinical Note & Summary Clinical Note & Summary
- Encounter / Appointment
- Problem & Procedure
 Problem / Diagnosis
 Procedure
- Medication
 Prescribing History
 Dispensing History
- Laboratory Record
 Chemical Pathology
 Microbiology & Virology
 - Toxicology Radiology Record
 - General Radiology Ultrasonography Computed Tomography

Date View Document View Chen	nical Pathology		 Period: All 	~		Default	View
Date Profile Description	tion				\$	Institution	\$
19-Jun-2015 🔁 CBP						PWH	
19-Jun-2015 🔁 LFT, RFT, Gluco	ose, Lipid					PWH	
15-Jan-2015 🔁 CBP						PWH	
15-Jan-2015 👘 LFT, RFT, Gluco	ose, Lipid					PWH	
Laboratory Cumulative Result(s)							
Cumulative Period: All						Page 1 of 3	ÞÞ
Institution	WE	PWH	PWH	PWH	PWH	PWH	
Date)-Jui 7015	15-Jan-2015	28-Oct-2014	14-Oct-2014	01-Oct-2014	20-Jun-2014	
	:15	09:50	10:07	09:44	09:56	09:51	
PDF_Report	1	2	14	14	14	12	
Haemo⊾ bin lood	10.8 L 🖡	10.8 L 🖡 👘	11.1 L I	11.5 L 🖡	12.6 L 🖡	13.4	
Leukon Jes, Blood	13.4 H 🕇	14.3 H 🕇	15.5 H 🕇	10.2 H 🕇	6.2	5.7	
Platelets, Blood	507 H 🕇	538 H 🕇	542 H 🕇	494 H 🕇	427 H 🕇	341	
Erythrocyte mean corpuscular volume	89	89.2	91.4	93.1	93.6	91.4	
(MCV)							
Erythrocyte mean corpuscular	27.7	28.9	29.8	30.8	32.2	30.5	
haemoglobin (MCH)							
Erythrocyte mean corpuscular haemoglobin concentration (MCHC)	31.1 L ↓	32.4	32.6	33	34.4	33.3	
Erythrocytes, Blood	3.90 L 🖡	3.74 L 🖡	3.73 L 🖡	3.74 L 🖡	3.92 L 🖡	4.4	
Hematocrit (HCT), Blood	0.347 L 🖡	0.334 L 🖡	0.340 L 🖡	0.349 L 🖡	0.367 L 🖡	0.402	
Erythrocyte distribution width (RDW)	17.5 H †	15.7 H 🕇	15.1 H †	14.1 H 1	14.3 H 🕇	15.9 H 🕇	

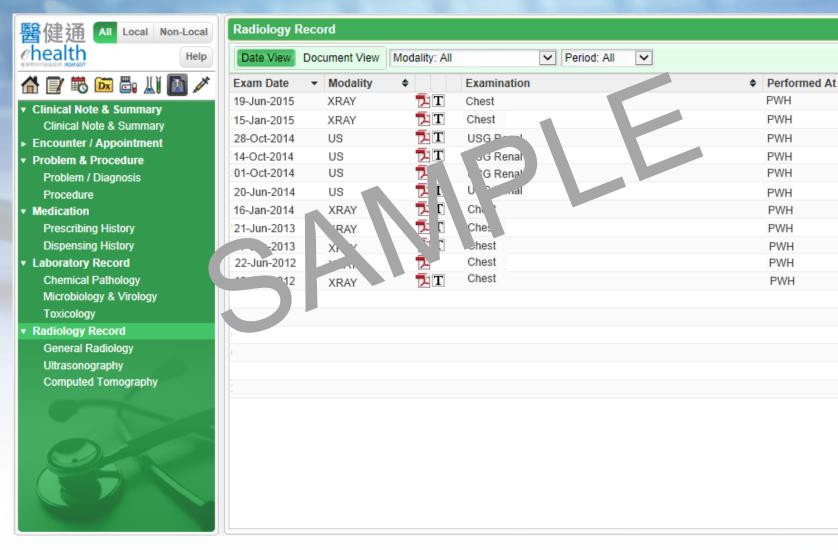


Laboratory Record

醫健	Laboratory Details						×	
ehea	Attending Institution Requesting Institution Performing Institution				Reference Date	19-Jun-2015 15:15		/iew 🗸
 Clinica 	Test Name		Content	Reference Ra e	Comment			~
Clini	HGB		9.5 L g/dL 🖡	12.4 - 17.1				~ V
 Encou Proble 	WBC		15.4 H x10^9/L 🕇	3. 9.2				
Prob	PLT		570 H~10^9 1	145 370				8
Proc	MCV		87.5	82.0 7.0				
 Medica 	MCH		26.9 p. 4	27.0 -				ÞÞ
Pres	MCHC		30.7 g/d. 🎙	32.0 - 35.0				
Disp	RBC		3. °T x10^ /L↓	4.30 - 5.90				
 Labora Chei 	нст		0.305 L L/L 🖡	0.400-0.510				
Micr	RDW		17.8 H 🕇	11.0 - 14.0				
Toxi	MPV		8.8 fL	7.0 - 10.0				^
 Radiol 	Neutrophil		9.6 H x10^9/L 🕇 👘	1.7 - 5.8			\sim	
Gen	0/ Noutraphil		60 7 W	42.0 74.0				
Ultra								
Com								
6						C)k	
		Hematocrit (HCT), Blood	0.309 L 🖡 🛛 0	0.324 L ↓ 0.347 L ↓	0.334 L 🖡	0.340 L 🖡 🛛 0.349 L	1	
		Erythrocyte distribution width (RDW		16.6 H ¹ 17.5 H ¹		15.1 H ¹ 14.1 H		\sim
			л.оп•	10.011 · 17.011 ·	15.7 H •	13.111 14.11	-	



Radiology Record

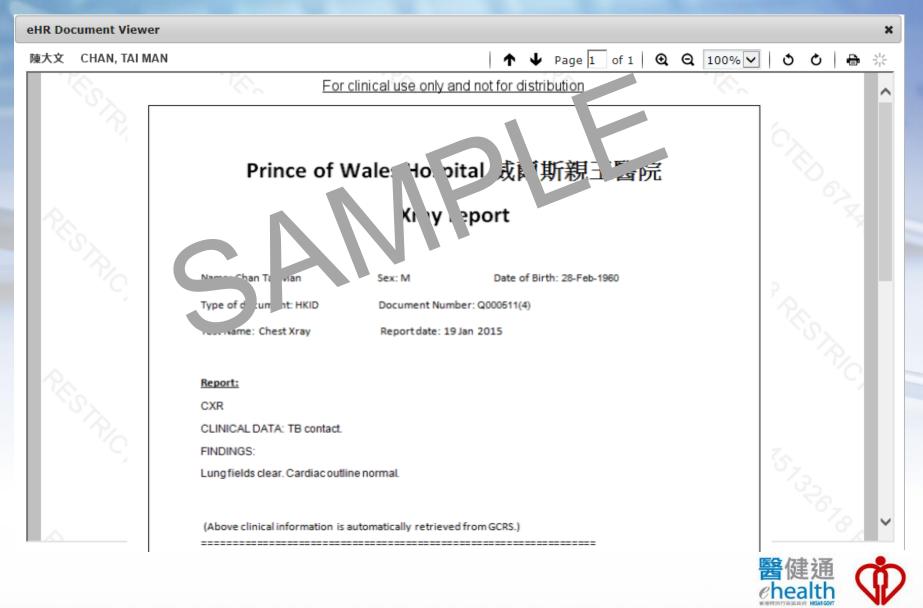




Default View 🗸

.

Radiology Record



Prescribing & Dispensing History

醫健通 All Local Non-Local	Prescribing Histo	ny	
Chealth Help	Last 2 years 🗸		Default View 🗸
🚹 📝 📆 🖾 🔂 📖 🗡	Date 👻	Medication	Institution 🔶
 Clinical Note & Summary Clinical Note & Summary Encounter / Appointment Problem & Procedure Problem / Diagnosis Procedure Medication Prescribing History 	19-Jun-2015	 BETALOC (METOPROLOL) tablet Oral: 100mg BD for 6 months LISINOPRIL (ZESTRIC) tablet Oral: 40mg daily for 6 months DIAMICRON 10 (GLULAZIDE) rediffice release tablet Oral: 60mg Court 6 months MICCOPHACE (CETFICIENTIN HCL) tablet Oral: 500mg ED for 5 months DEST COMMENDATION (CONTRACT) 	PWH
Dispensing History Laboratory Record Chemical Pathology Microbiology & Virology Toxicology Radiology Record	45 Jan-2015	 BELLOG MLTOPHILOLy fablet Oral: 00mg for 6 months SINUPRIL (ZESTRIC) tablet Oral: 40mg daily for 6 months DIAMICRON MR (GLICLAZIDE) modified release tablet Oral: 60mg OM for 6 months GLUCOPHAGE (METFORMIN HCL) tablet 	ΓWΠ
General Radiology Ultrasonography Computed Tomography	20-Jun-2014	 BETALOC (METOPROLOL) tablet Oral: 100mg BD for 6 months LISINOPRIL (ZESTRIC) tablet Oral: 40mg daily for 6 months DIAMICRON MR (GLICLAZIDE) modified release tablet Oral: 60mg OM for 6 months GLUCOPHAGE (METFORMIN HCL) tablet Oral: 500mg BD for 6 months 	PWH



Thank You

