

Using Portfolios to Document and Track Pharmacy Residents Activities

Henry Cohen, BS, MS, PharmD, FCCM, BCPP, CGP

Associate Professor of Pharmacy Practice

Arnold & Marie Schwartz College of Pharmacy and Health Sciences
of Long Island University

and

Chief Pharmacotherapy Officer

Director of Pharmacy Practice Residency Programs

Kingsbrook Jewish Medical Center

Brooklyn, New York

KJMC/LIU Residency Program

- ⇒ 5 Pharmacy (PGY-1)
- ⇒ 1 Critical Care (PGY-2)
- ⇒ 1 Internal Medicine (PGY-2)
- ⇒ 1 Geriatrics (PGY-2)

- ⇒ Director
- ⇒ Associate Director
- ⇒ Coordinator
- ⇒ 7 Faculty Preceptors

18 total Residents
and Preceptors

Student's Portfolio

- ⇒ A selection of a student's work, such as papers and tests compiled over a period of time and used for assessing performance or progress
 - Pharmacy students
- ⇒ Investors
- ⇒ Stock Brokers
- ⇒ Artists
- ⇒ Photographers

Benefits of Resident Portfolios

- ⇒ Allows faculty to compare and contrast residents performance relative to previous rotations
- ⇒ Allows faculty to track and assess residents progress from rotation to rotation
- ⇒ Allows faculty to assess residents cumulative performance
- ⇒ Residents can assess the scope of their work
- ⇒ Provides comprehensive and detailed data for CV design

Activities Tracked (35 Items)

⇒ Attendance

- Vacation and sick days
- Education days

⇒ Dates and confirmation of completed rotation evaluations

- Resident Evaluation
- Self Evaluation

⇒ Presentations

- Journal clubs and grades
- Community service

⇒ Interventions

- Cost savings

⇒ Adverse drug events

⇒ Medication errors

⇒ Medication Reconciliation

⇒ Discharge Histories

⇒ Pharmacotherapy Consultations

⇒ Teaching activities

⇒ Research project

Resident Portfolios

- ⇒ Submitted by resident to faculty monthly
 - Due on first day of the month
 - Submitted electronically via E-mail or hard copy
 - Residency Director
 - Residency Associate Director
 - Residency Coordinator

Tracking Absences

No.	Date	Day of Week	Reason for Absence
1	8/15/6	Monday	Sick
2	8/16/6	Tuesday	Sick
3	3/13/7	Monday	Jury Duty
4	3/24/7	Friday	Bereavement
5	6/30/7	Friday	Sick

Tracking Vacation Days

No	Date	Day of Week	Date of Request	Approved by
1	8/11/6	Thursday	7/16/6	Dr. Cohen
2	8/12/6	Friday	7/16/6	Dr. Cohen
3	9/09/6	Friday	7/26/6	Dr. Cohen
4	11/21/6	Monday	11/20/6	Dr. Cohen
5	11/22/6	Tuesday	11/20/6	Dr. Cohen
6	11/23/6	Wednesday	11/20/6	Dr. Cohen
7	2/20/7	Monday	02/12/7	Dr. Cohen
8	2/21/7	Tuesday	02/12/7	Dr. Cohen
9	2/22/7	Wednesday	02/12/7	Dr. Alafri
10	5/21/7	Monday	05/16/7	Dr. Alafri

Tracking Professional Meetings

No.	Date(s) of Meeting	Name of Meeting	Location of Meeting	Cost of Meeting	Date Submitted	Amount Reimbursed
1	8/2/7	VTE Prophylaxis	Marriott, Brooklyn, N.Y.	0	-	-
2	8/12 - 8/15/7	ID Research Rounds	British Columbia, Canada	0	-	-
3	9/14/7	Stroke Prevention Lecture	Pearl Room, Brooklyn, N.Y.	0	-	-
4	10/2/7	Cardiopulmonary Seminar	SEIU 1199, New York, N.Y.	0	-	-
5	10/5/7	GNYHA: Surviving Sepsis Campaign	St. Frances Hospital, N.Y.	0	-	-
6	12/2/7 - 12/8/7	ASHP MCM	Las Vegas, NV	\$701	11/23/07	\$701
7	1/6/7 - 1/10/7	SCCM Congress	San Francisco, CA	\$1100	12/30/07	Pending

Tracking Rotation Evaluations

No	Start Date of Rotation	End Date of Rotation	Title of Rotation	Faculty	Evaluation of Resident by Faculty	Evaluation of Faculty by Resident Date Submitted	Resident's Rotation Self-Evaluation Date Submitted
1	7/18/7	9/30/7	Psychiatry	Dr. Daglyan	10/2/7	10/2/7	10/2/7
2	10/1/7	11/30/7	Geriatrics	Dr. Millares	12/1/7	12/1/7	12/1/7
3	12/1/7	12/31/7	Infectious Diseases	Dr. Riccobono	12/31/7	12/31/7	12/31/7
4	1/2/8	1/31/8	Cardiology	Dr. Luka	2/1/8	1/30/8	1/30/8
5	2/1/8	2/29/8	Ambulatory Care	Dr. Chu	3/2/08	3/2/8	3/3/8
6	3/1/8	3/31/8	Wound Care	Dr. Alafris	3/31/8	4/1/8	3/31/8
7	4/1/8	4/30/8	Pharmacy Administration	Mr. R. Levy	4/30/8	5/1/8	5/1/8

Tracking Quarterly Evaluations

Evaluation of Resident By Coordinator

Quarter Number	Start and End Dates of Quarter	Date Evaluation Completed
1	7/1/7 to 10/1/7	10/2/7
2	10/1/7 to 1/1/8	1/3/8
3	1/1/8 to 4/1/8	4/1/8
4	4/1/8 to 7/1/8	6/30/8

Tracking Journal Clubs

No.	Date	Rotation	Name of Journal	Title of Article	Resident's Self-Evaluation Grade	Name of Faculty and Grade
1	9/67	Psychiatry	Journal of Clinical Neurosciences	Quetiapine Successfully Treating Oculogyric Crisis Induced by Antipsychotic Drugs	C	Millares, C+ Chu, B Daglyan, C+
2	11/1/7	Geriatrics	Archives of Internal Medicine	Antidepressants and Rates of Hip Bone Loss in Older Women	C+	Millares, C Daglyan, C
3	1/4/8	Infectious Disease	Pharmacotherapy	Optimal Dosing of Piperacillin-Tazobactam for <i>Pseudomonas aeruginosa</i> Infection	C+	Riccobono, B Cohen, B
4	3/21/8	Wound Care	J Antimicrobial Chemotherapy	Treating Diabetic Foot Infections with IV to Oral Moxifloxacin or Beta-Lactams	B	Alafris, A- Levy, A- Riccobono, A-
5	5/22/8	Internal Medicine	Int J Cardiology	Effects of Digoxin at Low Serum Concentrations on Mortality and Hospitalization in Heart Failure	B+	Levy, A Daglyan, A

Tracking Pharmacotherapy Presentations

No	Date	Rotation	Topic	Resident's Self-Evaluation Grade	Name of Faculty and Grade
1	9/27/7	Psychiatry	Management of Agitation in Dementia Patients with Atypical Antipsychotics	C+	Daglyan, C+ Cohen, C
2	12/13/7	Geriatrics	Management of Chronic Constipation	B+	Millares, B+ Daglyan, B+ Riccobono, B
3	1/25/8	Cardiology	Anticoagulant Therapy for NSTEMI	B	Chu, B+ Daglyan, B+ Luka, C+
4	2/22/8	Ambulatory Care	Use of Vitamin K in Anticoagulation	B+	Daglyan, A Millares, A- Cohen, B+

Tracking In-Service Lectures

No.	Date	Rotation	Type of Presentation	Title of Presentation	Duration of Lecture	Type of Audience	Location
1	9/5/7	Psychiatry	In-service	Valproate and peripheral edema	15 min	MDs, medical students	M3
2	9/19/7	Psychiatry	In-service	Pharmacology of antipsychotics	45 min	Medical students	M3
3	1/4/8	Geriatrics	In-service	Management of hypertensive urgencies	15 min	MDs, PA students	DMRI
4	1/25/8	Cardiology	In-service	Vernakalant for atrial fibrillation	15 min	MDs, nurses	CCU
5	3/28/8	Wound care	In-service	Diabetic foot infection	50 min	DPM residents	B2
6	5/3/8	Internal Medicine	CE lecture	Adverse events associated with contrast media	20 min	Pharmacists	Sagamore Hotel

Tracking Adverse Drug Event Reporting

No	Date	Name of Rotation	ADE Number Assigned in ADE Database	Drug Involved in the ADE	Type of ADE
1	8/2/7	Psychiatry	2000	Phenytoin	Phenytoin toxicity – ataxia
2	8/6/7	Psychiatry	3000	Fluphenazine	Drowsiness
3	8/8/7	Psychiatry	4000	Insulin	Hypoglycemia
4	8/12/7	Psychiatry	5000	Quetiapine	Sialorrhea, tongue protrusion
5	8/21/7	Psychiatry	6000	Doxazosin	Hypotension
7	9/3/7	Geriatrics	7000	Amlodipine	Peripheral edema
8	9/14/7	Geriatrics	8000	Oxcarbazepine	Hyponatremia
9	9/22/7	Geriatrics	9000	Amitriptyline	Torsades-de-pointes
10	9/26/7	Geriatrics	9001	Divalproex sodium	Elevated LETs & LFTs

Tracking Medication Error Reporting

No.	Date	Name of Rotation	Level of Severity	Type of Medication Error	Drug Involved	Disciplines Involved
1	8/6/7	Critical Care	0	CPOE – Interface error	Procrit®	Information Tech
2	8/14/7	Critical Care	2	Nitroglycerin patch applied for 24 hours.	Nitroglycerin patch 0.2mg/hr	Home attendant
3	8/27/7	Critical Care	0	Allergy history not updated	Enalapril	Medicine
4	8/29/7	Critical Care	1	Duplicate therapy	Famotidine	Medicine
5	9/7/7	IM	0	LASA wrong drug dispensed	Labetalol & Metoprolol	Pharmacy
6	9/12/7	IM	3	Medication reconciliation	Methadone	Medicine
8	9/28/7	IM	0	Manufacturer defect Cannot read expiration	D ₅ W and NS IVPBs	N/A
9	10/12/7	Ambulatory Care	1	Blood not drawn for INR	Warfarin	Laboratory

Tacking ADEs and Medication Errors by Month and Clerkship

Year and Month	Rotation	Patient Care Unit	Total Number of ADEs	Total Number of Medication Errors
2007				
July	Internal Medicine	M4/B4	2	3
August	Internal Medicine	M4/B4	13	7
September	Surgery & Nutrition	B2	13	9
October	Psychiatry	M3	6	4
November	Pharmacokinetics	N/A	3	2
December	Geriatrics	RNH	16	8
2008				
January	Critical Care	ICU	10	2
February	Infectious Diseases	B3	4	4
March	Pharm Administration	N/A	1	0

Tracking Pharmacotherapy Interventions and Cost Savings

Month	Rotation	Unit	Total # Interventions	Average Interventions per day	Cost Savings Interventions
August	Ambulatory Care	Amb. Care	87	4	\$21,400
September	Internal Medicine	B4	265	14.7	\$25,300
October	Cardiology	CCU	166	10	\$26,100
November	Surgery	B2	306	15.7	\$36,700
2008 January	Critical Care	ICU	292	23.6	\$64,900

Conclusions

- ⇒ Portfolios are a useful tool to track the residents activities and assess their performance and progress
- ⇒ Portfolios can be used to track attendance, submission of evaluations, reporting of ADEs, medication errors, and interventions
- ⇒ Portfolios should be submitted by the resident to the faculty after each rotation
- ⇒ Portfolios allow residents to assess the scope of their work and are useful for CV design



Questions

Questions



Thanks!

