

Home Infusion Pharmacist Professional Services Study

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Introduction

- Time studies are common in healthcare
- Literature review shows a void in published research specific to time and activities of home infusion pharmacists
- Pharmacists roles are vital and multi-faceted from clinical management, to sterile compounding, and multi-disciplinary coordination for positive patient outcomes at all stakeholders in patient care
- Insight into the pharmacist time spent managing all aspects of patient care with be vital to advance the industry and help to achieve recognition and payment for these types of services
- · All data is de-identified



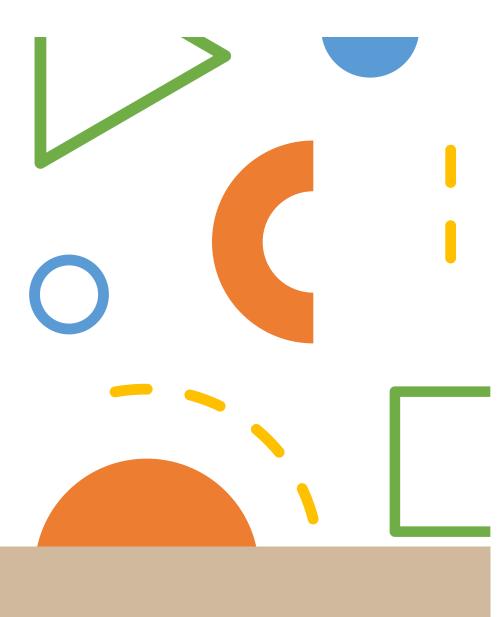
Objectives

- Determine the average daily and weekly amount of time pharmacists are involved with managing and caring for various types of home infusion patients.
- 2. Determine the average daily and weekly amount of time the home infusion pharmacist spends providing certain professional services on the patients being tracked.
- 3. Evaluate the time differences spent on professional service functions by the home infusion pharmacist by therapy type and method of administration.



Methodology

- "Pharmacist Time Tracking" will refer to the process of recording time spent in providing defined actions of patient care
- Eight (8) Patient Populations
 - · Based on Therapy and Administration Method
- Six (6) Pharmacist Care Activity Tasks
 - Begin at start of care (SOC) and tracked through two (2) dispensing cycles
- · Use of a coded data collection tool
- Goal: 3-5 patients for each provider location participating





Study Patient Populations

- Anti-Infective patient using an ambulatory infusion pump
- Anti-Infective patient utilizing IV push administration
- Inotropic Patient using an ambulatory infusion pump
- Anti-Neoplastic chemotherapy (i.e.5-FU) using an ambulatory infusion pump
- Parenteral Nutrition (PN) patient
- Monoclonal Antibody (MAB) therapy administered IV with initial home dose through 2nd dispensing cycle
- Subcutaneous Immune Globulin-pump administered
- IV Immune Globulin-pump administered



Pharmacist Care Activity Tasks

Code 1: Performing patient assessments and documenting the assessment results in the patient EMR, and including any of the following activities:

- · Examples of tasks:
- · Review of current illness
- · Review of past medical history
- · Review of current medication list
- · Review of prescribed infusion medication
- · Assessment of home environment/caregiver status
- Assessment of ambulatory status and other physical limitations that may interfere with self-administration
- Assessment of vascular access device compatibility with prescribed medication
- · Interventions to facilitate initiation of home infusion therapy



Pharmacist Care Activity Tasks

Code 2: Developing, implementing and documenting the care plan, including the following:

- Examples of tasks:
- · Selection of administration method
- · Establishing goals of therapy
- Reviewing existing, and obtaining supplemental physician orders for prevention of acute infusion reactions, catheter declotting agents, access device maintenance solutions, etc.
- · Developing a monitoring plan
- Developing an access device maintenance plan
- · Patient education plan
- · Interventions performed
- Documenting and updating the care plan in the EMR







- · Examples of tasks:
- · Obtaining, tracking, and trending lab results
- Lab evaluations
- · Interventions performed
- · Recommendations made as a result of monitoring activities
- Documentation of monitoring and interventions in the EMR





Code 4: Drug preparation and compounding activities, including:

- Examples of tasks:
- Dispensing
- · Determining appropriate beyond use dates
- Compounding process oversight (patient specific)
- Supply selection
- Shipping
- · Documentation of compounding, dispensing, and delivery activities



Pharmacist Care Activity Tasks

Code 5: Care Coordination and communication

- Examples of tasks:
- Telephonic interactions and the time spent performing the task
- · Patient communication
- · Prescriber communication
- · Internal communication (i.e. billing,
- Only include if not able to fit into a category above



Pharmacist Care Activity Tasks

Code 6: Other patient related work tasks including:

- Examples of tasks:
- Case conferences
- · Work not covered above



Data Collection

- Home Infusion Pharmacist Tracking Form (excel doc)
- One form per patient
- Each patient will require two (2) dispensing cycles
- Include the Start of Care activities
- Once patient is complete, can upload to the NHIF portal

NHIF HOME INFUSION PHARMACIST TRACKING FORM-CLINICAL SERVICES TIME STUDY									
Location DPC					Patient Therapy Type Codes				
Patient ID#					Antiinfective using an ambulatory infusion pump Antiinfective utilizing IV push administration Intoriopic using an ambulatory infusion pump Anti-neoplastic chemotherapy (i.e.5-Fu) using ambulatory infusion pump Parenteral nutrition patient Monoclonal antibody administered intravenously with initial home dose T. Subcutaneous immune globulin-pump administered Intravenous immune globulin-pump administered				
Patient Age					Care Activity Task Codes				
Patient Data Start Date Patient Data Stop Date Patient Therapy Type Code					1: Performing patient assessments and documentation 2: Developing, implementing, & documenting care plan 3: Remote monitoring and intervention activities 4: Drug preparation and compounding activities 5: Care coordination and telephonic communications 6: Other patient related works tasks				
Secondary Therapies (IV)	Therapy	Medication	Date Added	Administration Method					
		+							
		+							
Data Entry *Please enter start time and end time in military time (00:00-24:00)									
Date	Task Code #	Start Time	End Time		Comments/Notes				



Data Collection-Example

NHIF Home Infusion Pharmacist Tracking Form-Clinical Services Time research Study									
Location DPC		123	456		Patient Therapy Type Codes				
Patient ID #		1234	55601		1. Antiinfective using an ambulatory infusion pump 2. Antiinfective utilizing IV push administration 3: Indropic using an ambulatory infusion pump 4: Anti-neoplastic chemotherapy (i.e. 5-fu) using ambulatory infusion pump 5. Parenteral nutrition patient 6: Monoclonal antibody administered intravenously with initial home dose 7. Subcutaneous immune globulin-pump administered 8: Intravenous immune globulin-pump administered				
Patient Age	62				Care Activity Task Codes				
Patient Data Start Date	9/1/2020				1: Performing patient assessments and documentation 2: Developing, implementing, & documenting care plan 3: Remote monitoring and intervention activities 4: Drug preparation and compounding activities 5: Care coordination and elephonic communications 6: Other patient related works tasks.				
Patient Data Stop Date		9/15	/2020						
Patient Therapy Type Code	2								
Secondary Therapies (IV)	Therapy	Medication	Date Added	Administration Method					
	Hydration	0.9% NS	9/5/2020	Gravity					
		*Please enter s	Data tart time and end	Entry time in military ti	me (00:00-24:00)				
Date	Task Code #	Start Time	End Time		Comments/Notes				
9/1/2020	1	12:35	13:05						
9/1/2020) 2	13:05	13:20						
9/1/2020		13:20	13:30						
9/4/2020		9:15	9:30		sCr elevated, MD consult				
9/4/2020		9:30	9:45	HYD added					
9/4/2020		11:00							
9/7/2020		13:15	13:45						
9/11/2020		15:15	15:20						
9/15/2020	6	17:30	17:45	Patient DC					



Analysis

- Analysis will include use of Microsoft Excel[®] and IBM SPSS[®]
- Average Daily & Weekly amount of time pharmacists are involved with managing and caring for the home infusion patient
 - This will further be broken down into the amount of time per task
 - Means and standard deviations will be determined for average daily and weekly times by task, therapy time, age, and more
- Each participating organization will receive all analysis and publications free of charge
- ALL DATA is DE-IDENTIFIED



