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Integration of a Pharmacist in a Pediatric Medical Home for Children with Medical Complexity

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What is the Beacon Program?

The Beacon Program at Children's Mercy Kansas City is a pediatric medical home for hundreds of children with medical complexity (CMC) and their siblings.

Families are cared for by a comprehensive medical team, including a clinical pharmacist.

Why are Drug-Related Problems a Concern?

CMC require unique care, specialized attention, and benefit from a dedicated team to meet the needs of patients and caregivers.

Drug-therapy related problems in complex, chronic conditions influence financial, institutional, and patient outcomes.

Why a Pharmacist?

- **Value-added medication services**
- Collaboration and delivery of comprehensive medication management
- **Optimize complex therapeutic regimens and patient outcomes** through evidence-based practices, medication adherence, coordination, and safety processes

How is the Pharmacist's Care Provided?

Pharmacist is available for all appointments and meets with patients/caregivers at beginning of clinic encounters. Multiple services provided include:

1. **Comprehensive medication reconciliation** through history provided by caregiver, outpatient pharmacy review, and chart review of specialty teams
2. **Adverse drug assessment**

3. Systemic drug-utilization review of each medication

- Drug-disease contraindication
- Drug-drug interaction
- Drug-patient precaution
- Dosing
- Duration of therapy
- Over- / underutilization
- Dosage form modification
- Adherence concerns
- Monitoring warranted

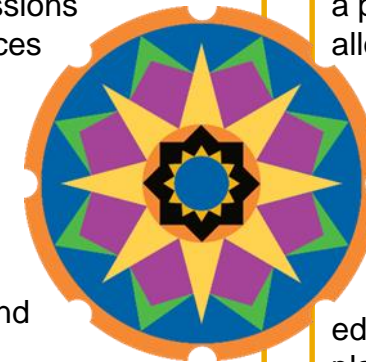
4. Patient education and development of personal, family-friendly medication lists

Take These Medications	At These Times					Purpose
	8am	1pm	2pm	5pm	8pm	
GENERIC PediaSure 1.5 Cal G-Tube	1 Cap	1 Cap		1 Cap	1 Cap	Feeds - Managed by Beacon
Water G-Tube	120 mL(x)	120 mL(x)		120 mL(x)	120 mL(x)	Water
GENERIC Baclofen 10 mg Tablet(s) G-Tube	1 (1mg)		1 (1mg)		1 (1mg)	Helps with tone & spasms - Managed by Rehab
GENERIC Diazepam 1 mg/mL G-Tube	1 mL(x) (1mg)		1 mL(x) (1mg)		1 mL(x) (1mg)	Helps with tone & spasms - Managed by Beacon (with neuro)
GENERIC Ranitidine 15 mg/mL G-Tube	3 mL(x) (45mg)				3 mL(x) (45mg)	Treats acid reflux - Managed by Beacon
GENERIC Cholecalciferol (Vitamin D) 400Units/mL G-Tube					2 mL(x)	Supplements vitamin D - Managed by Beacon
GENERIC Miralax® (Polyethylene Glycol 3350) 17 G-Gram(s) G-Tube					17 grams	Relieves constipation - Managed by Beacon. 17 grams = 1 capful!

*Utilization of MedActionPlan™

5. Coordination of care

- Inpatient admissions
- Specialty services
- Home healthcare
- Prior authorization needs
- Outpatient prescriptions and pharmacies
- 6. **Medication therapy services collaborative practice**



Significance

The integration of a pharmacist in a pediatric medical home for CMC allows for:

- Innovation
- Interdisciplinary collaboration
- Comprehensive medication management

Incorporation of family education and tangible medication plans promotes:

- Safe and consistent medication practices