

# The Heart of Care Redesign; Care Protocols

Paul N. Casale, MD, FACC Chief, Division of Cardiology Lancaster General Health

#### Lancaster General Health - By the Numbers (Fiscal Year 2012)

- **Beds:** 631 in service at both campuses
- Physicians: More than 900
  - Includes 245 health system-employed in medical group
- Operating Rooms: 39
- **Surgeries:** 41,503
- Emergency visits: 107,914
- Inpatient discharges: 37,166 (includes 4,315 births)
- Outpatient registrations: 903,145
- LG Health physician office visits: 572,783

# CMMI Bundled Payment for Care Improvement

Payment of Bundle	Acute Care Hospital Stay Only	Acute Care Hospital Stay plus Post-acute Care	Post-acute Care Only	Chronic Care
"Retrospective" (Traditional FFS payment with reconciliation against a predetermined target price after the episode is complete)	Model #1	Model #2	Model #3	Model #7
"Prospective" (Single prospective payment for an episode in lieu of traditional FFS payment)	Model #4  (Joint replacement, Hip fracture, Cardiac surgery, Coronary stents, Pacemakers, ICDs, Spine surgery)	Model #5	Model #6	Model #8



### CMMI Bundled Payment for Care Improvement

- •Lancaster General Health potential opportunities:
  - Supply costs (variation in supplies utilized)
  - Length of stay
  - ED utilization/Readmissions
  - Diagnostic testing
  - Number of providers per case
  - Services/testing performed unrelated to reason for admission

### Care Redesign - Lancaster General Health

- Clinical Effectiveness Committees
  - Care Management Teams
  - Service Lines
  - Surgical/Medical Workgroups
  - System-wide Approach

# Care Management Team Multidisciplinary Membership

- Medical Director/Physician Leader
- Executive Sponsor
- Physicians/Surgeons
- Nursing Director
- Nurse Manager(s)
- Staff Nurse(s)
- Performance Improvement Coordinator
- Data Analyst
- Care Management (case manager, social work)
- Specialty Department Manager/Staff
  - Nutrition
  - Pharmacy
  - Rehab
  - Research
  - Laboratories
  - Therapy

- 350,000 annually & number of hip fracture repairs predicted to increase
- Fracture risk doubles every decade after age 50
- One year mortality rate 14-36%
- o 50% fail to regain pre-fracture mobility
- 25% who previously lived independently, require long term nursing care
- o 35-65% hip fracture patients are affected by delirium

- Greatest share of adverse events among orthopedic procedures
- Account for more hospital days than any other musculoskeletal injury
- Early operative treatment is associated with improved ability to return to independent living, reduction in risk for pressure ulcers and shortened LOS

- Co-Management (Friedman, et, al., Arch. Int Med, 2009)
- Early Surgical Intervention (Al-Ani, et, al., JBJS, 2008)
- Delirium Assessment (Inouye, NEJM, 2006)
- Pain Management (Ickowicz, JAGS, 2009)
- PM&R (Koval & Cooley, Disability & Rehab, 2005)
- Cardiac Pre op Assessment (Salerno, et al., Am. Journal of Med, 2007)
- Osteoporosis Assessment, Treatment and Prevention (North Am. Menopause Soc, 2010)

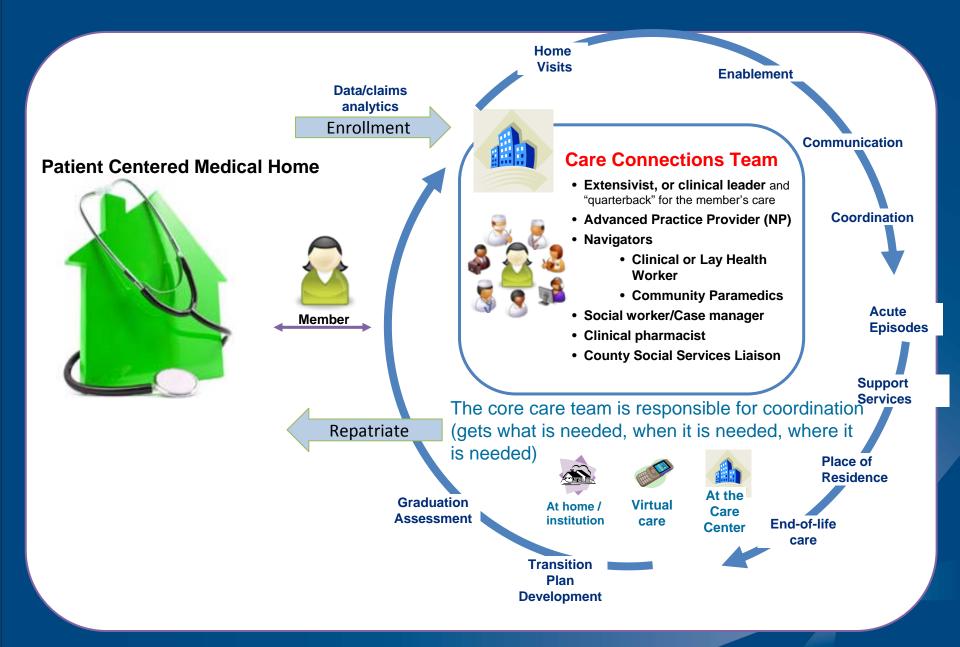
- Clear Coordination: ED, Medicine, Surgery, Nursing
- Timeliness to surgical intervention
- Standard orders: ED, Pre and Post op
- INR reversal
- Reduction in the use of narcotics /blood transfusions
- Delirium prevention, assessment and treatment
- Rheumatology integration to assess and understand root cause
- Physical Rehabilitation and Medicine evaluation early ambulation

- Nursing Specialization
- Community and Family Education
- Daily Discharge rounds
- Outreach to Extended Care Facility

### Where we are today

- Average length of stay
- Surgical intervention in 24 hours
- Pre-op cardiac evaluation
- Delirium management
- Early ambulation

#### LG Health Care Transformation Model



#### Benefits of CTM: Care Connections

- •**Team care**, that crosses traditional boundaries and functions, to provide better access, better care and lower costs
- •Dedicated *Care Center* to provide high-risk track for CTM participants; including
  - Coordination of critical resources
  - Boundary spanning: care at home, nursing facility, community centers and hospitals
- Scalable and Replicable: Pilot approach with staging to include 'second tier' of individuals
- •Incorporation of protocols and early identification of individuals at risk of becoming Care Connections participant (multiple comorbidities, psycho-social, etc.)
  - Standardizing definitions of superutilizers
  - Standardizing care management process