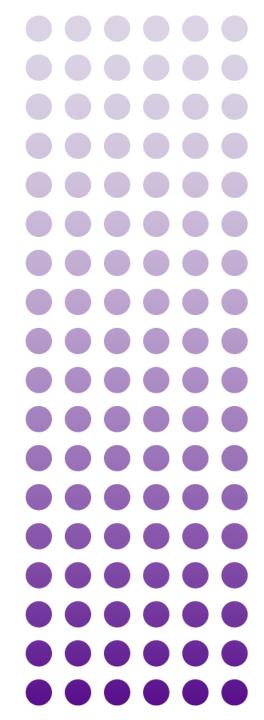


Measuring Success with Bundles: Winning Strategies in Analytics The National Bundled Payment Summit Washington, DC June 16-18, 2014

Karim A. Habibi, FHFMA, MPH, MS Senior Vice President and Chief of Managed Care and Healthcare Reform



NYU Langone Medical Center

- Academic medical center comprised of four hospitals
- 1,069 licensed beds
- 39,000 patient admissions
- 670,000 outpatient visits
- Medicare beneficiaries represent 27% of NYULMC volume and 18% of revenue
- Established NYUPN, a Clinically-Integrated Network, in 2010
- 761 voluntary physicians (38%)
- 1262 Faculty Group Practice (FGP) physicians (62%)
- >1M FGP physician visits

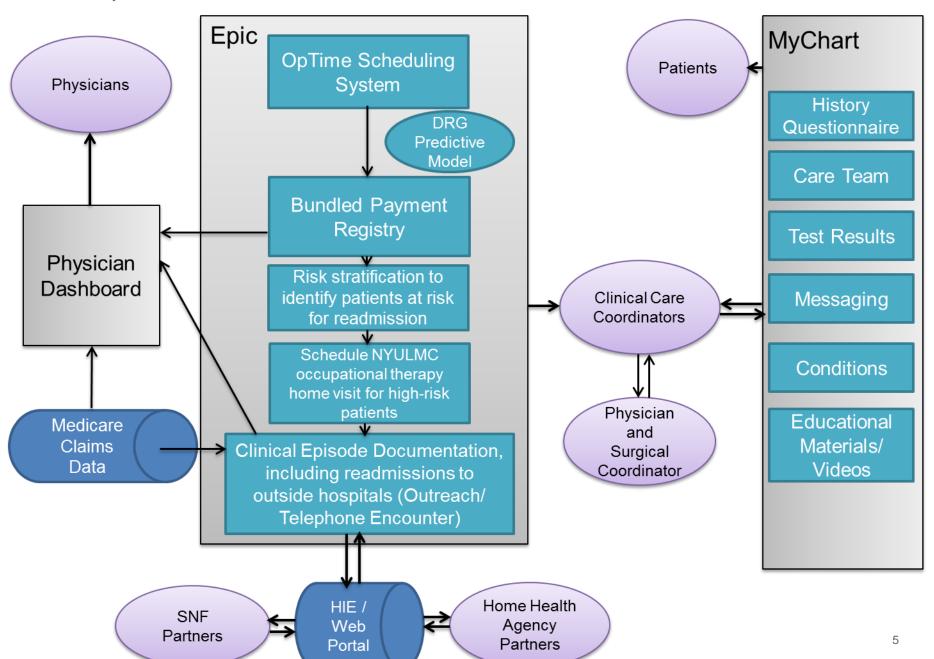


Using Analytics to Empower Clinicians

- To be successful in BPCI, NYULMC needed to place focused information in the hands of clinicians on a timely basis in order to facilitate care redesign.
- □ Since DRG coding occurs post-discharge, NYULMC had to find a way to predict BPCI patients at both the pre-admission phase after scheduling of surgery and during the inpatient stay. NYULMC leveraged Epic to identify this population of interest.
- NYULMC also built tools in Epic so that Clinical Care Coordinators (CCCs) could document care coordination activities, including readmissions to facilities outside of NYULMC. CCCs have been able to capture the majority (>85%) of readmissions that occur at outside our hospitals.
- Using EMR data, a weekly dashboard was developed to regularly inform leadership and clinicians on BPCI performance, at both the condition and physician levels.



BPCI Episode Technical Workflow

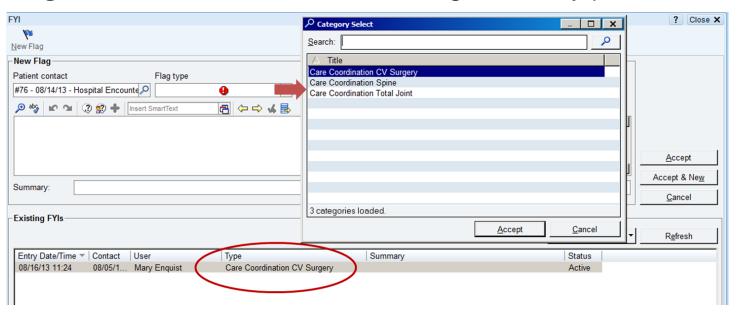


BPCI Patient Identification

Scheduled procedures report kicks off outreach efforts pre-surgically

| Surgery | Pre- Testing | Patient | Patient Age on | | | | | | Patient | PCP Office | |
|------------|-----------------|-----------|----------------|--------------|-----------------------------------|------------|---------------|-------|---------|------------|-----------------|
| Date | Date | | | Surgeon Name | Procedure | Home Phone | Email Address | | | | Schedule Status |
| 10/15/2013 | 5/8/2013 | Patient 1 | 69.5 | Surgeon 1 | ROBOTIC MITRAL VALVE ANNULOPLASTY | Phone 1 | Email 1 | DOB 1 | PCP 1 | PCP 1 | Scheduled |
| 10/15/2013 | 10/1/2013 | Patient 2 | 62.2 | Surgeon 2 | REVISION FUSION SPINAL POSTERIOR | Phone 2 | Email 2 | DOB 2 | PCP 2 | PCP 2 | Scheduled |
| 10/15/2013 | 10/2/2013 | Patient 3 | 70.9 | Surgeon 3 | REPLACEMENT HIP TOTAL | Phone 3 | Email 3 | DOB 3 | PCP 3 | PCP 3 | Scheduled |
| 10/15/2013 | 10/4/2013 | Patient 4 | 88.6 | Surgeon 4 | REPLACEMENT KNEE TOTAL | Phone 4 | Email 4 | DOB 4 | PCP 4 | PCP 4 | Scheduled |
| 10/15/2013 | 10/4/2013 | Patient 5 | 71.5 | Surgeon 5 | REPLACEMENT HIP TOTAL | Phone 5 | Email 5 | DOB 5 | PCP 5 | PCP 5 | Scheduled |

• FYI Flags are added at the time of booking to identify patients in the EMR



BPCI Patient Identification (con't)

• Inpatient census report is available to the care team daily

| Bundle | d Paym | ent Ir | itiati | ve Inpat | tient Cei | isus Re | port - | Medic | are Only | | | | | |
|--------------|----------------|--------|--------|-------------------|-------------|-------------|-------------|----------------|------------------------|-----------|-------------------|-------------------|----------|-------|
| Date range: | Yesterday | | | | | | | | | | | | | |
| Surgery | Patient | MRN | Sex | Birth Date | Admission | Discharge | LOS to | ADT | Actual Procedure Name | Surgeon | Service | Total Case | Payor | Age |
| <u>Date</u> | Name | | | | <u>Date</u> | <u>Date</u> | <u>Date</u> | Patient | | _ | | <u>Time</u> | | _ |
| 10/11/2013 | Patient 1 | MRN 1 | Male | DOB 1 | 10/11/2013 | | 2.74 | Inpatient | REPLACEMENT KNEE TOTAL | Surgeon 1 | Ortho Total Joint | 164.00mins | MEDICARE | 71.00 |
| 10/09/2013 | Patient 2 | MRN 2 | Male | DOB 2 | 10/09/2013 | | 4.74 | Inpatient | REPLACEMENT HIP TOTAL | Surgeon 2 | Ortho Total Joint | 145.00mins | MEDICARE | 85.00 |
| 10/10/2013 | Patient 3 | MRN 3 | Male | DOB 3 | 10/10/2013 | | 3.76 | Inpatient | REOP AVR | Surgeon 3 | Cardiovascular | 330.00mins | MEDICARE | 69.00 |
| Run Date: 10 |)/14/2013 | | | | | | | | | | | | | |

Readmission and ED/Urgent Care Visit Report alerts staff in real time

| Bundled Payment Initiative Urgent Care/ED Visit, Readmission, and Inpatient Rehab Report - Daily | | | | | | | | | | | |
|--|-----------|-------------------------------------|-------------------------|-------------------------------------|--|--|----------------------------|------------------------------------|------------------------------------|-----------------------|--|
| PATIENT_ CLASS | SERVICE | INDEX_ ATTENDING | <u>MRN</u> | PAT_ NAME | HOSP_ ADMSN_TIME | | CURRENT_DX_ DESCRIPTION | | INDEX_ DISCHARGE _DATE | INDEX_ DRG_ NUM | INDEX_DISCHARGE_ DISPOSITION |
| Inpatient Inpatient Observation Blue- Curr Yellow - In | ent Visit | Suraeon 1 Suraeon 2 Suraeon 3 | MRN 1 MRN 2 MRN 3 | Patient 1 Patient 2 Patient 3 | 10/13/2013 10/13/2013 10/14/2013 | | Lvmph edema | 8/31/2013 9/4/2013 10/7/2013 | 9/5/2013 9/9/2013 10/11/2013 | MS460 | Skilled Nursino Facility Home Health Care Svc Home Health Care Svc |



Inpatient Care Pathway

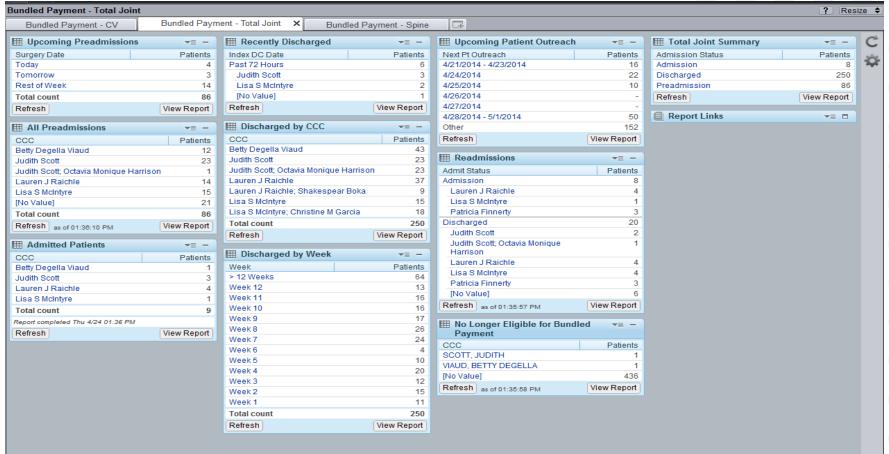
Epic Pathway Report monitors a patient's progress on the pathway

| Wit Witals Rad Meds to Give Signal Signal Signal Rad Meds to Give Signal Signal Rad Red Signal Rad Rad Red Signal Rad | les Priority .00 9.64 W basal dose) 0-15 Units - (Medium Dose | Class Class Stop: 11/27 2159 I 11/28 0659 I | | Route | Noted 8/2/2012 10/16/2012 | Ho 8/ | eport: ORT TJR osp From 2/2012 1/16/2012 | Never Revi Hosp To 8/27/2012 | | | |
|---|--|---|----------------|----------------|--|---|---|--|--|--|--|
| 789 V43 Pain control IV meds glargine (LANTUS) injection 14 Units - (LO aspart (NovoLOG FLEXPEN) injection pen te Correction Scale - Panel (OR)) ved Group Details aspart (NovoLOG FLEXPEN) injection pen te Correction Scale - Panel (OR)) ved Group Details | .00 .64 W hasal dose) 0-15 Units - (Medium Dose | Stop : 11/27 2159 | | Route | 8/2/2012 | 8/ | 2/2012 | Hosp To 8/27/2012 | | | |
| 789 V43 Pain control IV meds glargine (LANTUS) injection 14 Units - (LO aspart (NovoLOG FLEXPEN) injection pen te Correction Scale - Panel (OR)) ved Group Details aspart (NovoLOG FLEXPEN) injection pen te Correction Scale - Panel (OR)) ved Group Details | .00 .64 W hasal dose) 0-15 Units - (Medium Dose | Stop : 11/27 2159 | | Route | 8/2/2012 | 8/ | 2/2012 | 8/27/2012 | | | |
| V43 Pain control IV meds glargine (LANTUS) injection 14 Units - (LO aspart (NovoLOG FLEXPEN) injection pen ec Correction Scale - Panel (OR)) ced Group Details aspart (NovoLOG FLEXPEN) injection pen ec Correction Scale - Panel (OR)) ced Group Details | W basal dose) 0-15 Units - (Medium Dose | 11/27 2159 I | | Route | | | | | | | |
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| glargine (LANTUS) injection 14 Units - (LO aspart (NovoLOG FLEXPEN) injection pen e Correction Scale - Panel (OR)) ced Group Details aspart (NovoLOG FLEXPEN) injection pen e Correction Scale - Panel (OR)) ced Group Details | 0-15 Units - (Medium Dose | 11/27 2159 I | | Route | | | | | | | |
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| e Correction Scale - Panel (OR)) <u>ked Group Details</u> as pard (NovoLOG FLEXPEN) injection pen e Correction Scale - Panel (OR)) <u>ked Group Details</u> | , | 11/26 0659 1 | | | At Bedtime 3 Times Daily | | | 10/28/12 10/28/12 | | | |
| aspart (NovoLOG FLEXPEN) injection pen le Correction Scale - Panel (OR)) ked Group Details | 0-7 Units - (Medium Dose | | Jispensea | SUDG | 3 Times Daily | | | 10/26/12 | | | |
| | | 11/28 0659 | Dispensed | SubQ | 3 Times Daily | | | 10/28/12 | | | |
| LOG) injection) | 0-10 Units - (insulin aspart | 11/27 2159 I | Dispensed | SubQ | At Bedtime | | | 10/28/12 | | | |
| regular (HUMULIN R;NovoLIN R) 1 Units/m usion | L in sodium chloride 0.9 % 100 | 11/27 2312 | Dispensed | IV | Continuous | | | 10/28/12 | | | |
| xib (celeBREX) capsule 100 mg - (Please s | elect one of the following) | 11/24 0959 | Sent | Oral | 2 Times Daily | | | 10/24/12 | | | |
| parin (LOVENOX) injection 30 mg | , | 11/23 1044 | | SubQ | Every 12 Hours | | | 10/24/12 | | | |
| | | | | | • | | | | | | |
| | Placement date | Placement time | | Site | | | | Days | | | |
| en | 10/11/12 | 1132 | | Dou | ble-lumen | | | 25 | | | |
| np Left nare | 10/14/12 | 1133 | | Left | nare | | | 22 | | | |
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| ntrol and response to interventions | pain medication is helping me filed at:10/16/2012 1100 | | | | | | | | | | |
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| | Most Recent Value | | | | | | | | | | |
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| planning (None) | medication concerns [Pharmacy has Rx for Lovenox] filed at:10/16/2012 1100 | | | | | | | | | | |
| training (None) | assistive person [brother trained | d to administer lovenox] file | d at:10/16/ | 2012 110 | 0 | | | | | | |
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| | Most Recent Value | | | | | | | | | | |
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EMR Care Coordination Tools and Patient Registries

 Care coordination tools were built into the EMR so that Clinical Care Coordinators could see their daily patient lists, view the 90-day longitudinal plan of care as well as document all notes, including information from patients, post-acute providers, and readmissions back to NYULMC and to other hospitals





Communication With Patients – NYULMC MyChart

 NYULMC MyChart is an online patient portal that allows patients to access educational videos, test results, appointment calendars, and messages from clinicians and Clinical Care Coordinators





Post-Acute Communication

NYULMC's Health Information Exchange

- Allows care team to review clinical results/notes of other facilities and physicians
- "EMR Light" allows for enhanced communication with post-acute care providers through the use of an electronic transitional care communication tool. The tool consists of:
 - Transfer Document: Completed by a NYULMC Clinical Care Coordinator upon hospital discharge and made available to the post-acute provider through EMR Light. Includes information such as demographics, type of surgery, care pathway, most recent clinical status, and Clinical Care Coordinator contact information.
 - Follow-up Form: Sent from the post-acute provider to NYULMC as a patient progress report.
 Includes information such as post-acute length of stay, changes in clinical condition, physician / nurse practitioner evaluations, and medication changes.
 - Continuity of Care Document: The post-acute provider can also access the patient's Continuity of Care Document that is generated by NYULMC's electronic health record. The document is an electronic patient summary containing a set of standardized clinical elements that are most relevant during care transitions. These elements include allergies, medications, problem list, procedures, and results.



Reporting and Monitoring Cost Drivers

Cost Reductions (Cost to Providers)

- Reduce LOS or # of visits
- Reduce implant, supply, or drug costs
- Reduce OR time

Revenue Reductions (Cost to Medicare)

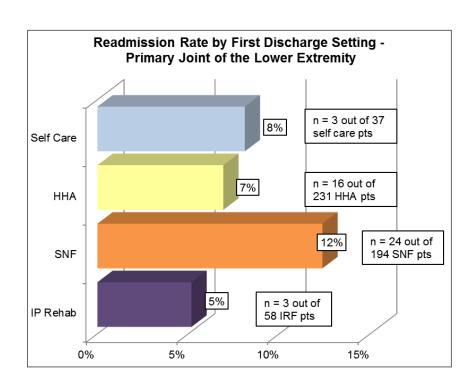
- Reduce readmissions
- Alter discharge patterns
- Decrease utilization (e.g., consults, ancillary tests)
- Reduce SNF LOS (paid on per diem)

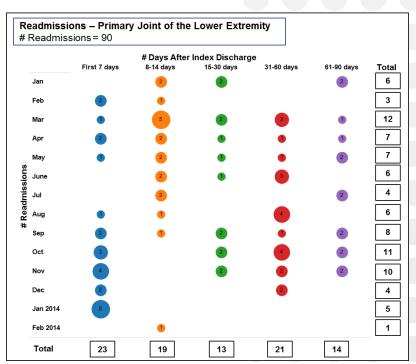
NYULMC studied the levers of cost and quality in a bundle when creating a care redesign structure. BPCI reporting and analytics tracks performance on these levers.



Reporting and Monitoring

- Bundled Payment Weekly Dashboard
 - Initiative-level reporting keeps the organization focused on achieving our targets







Reporting and Monitoring

- Bundled Payment Weekly Dashboard (continued)
 - Physician-level reporting allows Chairs and Chiefs to monitor their departments' performance
 - Promotes a continuous drive for improvement and results

NYULMC Physician Dashboard

| | | | | | Discharge | Dispositio | า | 90-Day Readmission Rate - Closed Episodes Only 1 | | | |
|--------------------------------------|------------|-------|----------|---------|-----------|------------|-----------|--|------------------|------------|----------------|
| | # Patients | ALOS | Rehab | Skilled | Total | Home | Home/ | Total | # Readmissions | # Patients | 90-Day |
| | Discharged | | Facility | Nursing | Facility- | Health | Self Care | Home- | (Closed Episodes | • | Readmission |
| | | | | _ | | Care Svc | | Based | Only) | | Rate (Closed |
| | | | | | Care | | | Care | | | Episodes Only) |
| Primary Joint of the Lower Extremity | 779 | 3.52 | 7% | 37% | 44% | 53% | 3% | 56% | 42 | 338 | 12% |
| HJD | 733 | 3.41 | 6% | 35% | 41% | 56% | 3% | 59% | 35 | 317 | 11% |
| DRG 469 - Primary Joint w MCC | 17 | 6.76 | 18% | 35% | 53% | 47% | 0% | 47% | 1 | 2 | 50% |
| Physician 1 | 4 | 6.00 | 25% | 50% | 75% | 25% | 0% | 25% | 0 | 0 | 0% |
| Physician 2 | 4 | 8.75 | 25% | 25% | 50% | 50% | 0% | 50% | 0 | 0 | 0% |
| Physician 3 | 2 | 4.50 | 0% | 50% | 50% | 50% | 0% | 50% | 0 | 0 | 0% |
| Physician 4 | 2 | 9.00 | 0% | 50% | 50% | 50% | 0% | 50% | 0 | 1 | 0% |
| Physician 5 | 1 | 7.00 | 0% | 100% | 100% | 0% | 0% | 0% | 0 | 0 | 0% |
| Physician 6 | 1 | 3.00 | 0% | 0% | 0% | 100% | 0% | 100% | 0 | 0 | 0% |
| Physician 7 | 1 | 13.00 | 0% | 0% | 0% | 100% | 0% | 100% | 0 | 0 | 0% |
| Physician 8 | 1 | 3.00 | 100% | 0% | 100% | 0% | 0% | 0% | 0 | 0 | 0% |
| Physician 9 | 1 | 3.00 | 0% | 0% | 0% | 100% | 0% | 100% | 1 | 1 | 100% |



Reporting and Monitoring

- Quarterly Reporting
 - Physician-level financial performance:

Q1 2013 physician comparison - Episode cost

| 2013 Predicted | | | | | | |
|--|-------|--------------------------|----------|---|--|--|
| Target Prices DRG 470 \$35,565 | Q1 n= | Q1 2013 Total Episode | _ | Difference btw Target Price and Q1 2013 | Total Difference btw Target Price and Q1 | Notes |
| DRG 469 \$54,233 | | Medicare Pmt | Pmt | | 2013 Avg. Pmt | |
| DRG 470 - w/o MCC | 145 | \$4,502,110 | \$31,049 | \$4,516 | \$654,856 | |
| Physician 1 | 17 | \$555,114 | \$32,654 | \$2,911 | \$49,495 | |
| Physician 2 | 17 | \$488,987 | \$28,764 | \$6,801 | \$115,623 | |
| Physician 3 | 13 | \$348,167 | \$26,782 | \$8,783 | \$114,182 | |
| Physician 4 | 12 | \$329,093 | \$27,424 | \$8,141 | \$97,690 | |
| Physician 5 | 11 | \$300,686 | \$27,335 | \$8,230 | \$90,532 | |
| Physician 6 | 11 | \$240,935 | \$21,903 | \$13,662 | \$150,283 | |
| Physician 7 | 8 | \$353,004 | \$44,125 | (\$8,560) | (\$68,482) | 74% of patients to facility-based post-acute care; 5 readmissions |
| Physician 8 | 5 | \$185,561 | \$37,112 | (\$1,547) | (\$7,735) | 72% of patients to facility-based post-acute care |
| Physician 9 | 5 | \$127,504 | \$25,501 | \$10,064 | \$50,322 | |
| Physician 10 | 4 | \$224,483 | \$56,121 | (\$20,555) | (\$82,222) | 79% of patients to facility-based post-acute care. One outlier patient had a \$108,000 readmission. The patient had a comborbidity of CHF and was readmitted for pulmonary embolism and pneumonia. The patient expired during the readmission. |
| Physician 11 | 2 | \$159,205 | \$79,602 | (\$44,037) | (, , , | All fracture patients |
| Physician 12 | 2 | \$95,341 | \$47,671 | (\$12,105) | (\$24,211) | All patients in Q1 were discharged to SNF |

- Future dashboard:
 - Real-time pricing of the bundle using both current data and historical averages



Future of Bundled Payment

Successes:

- The demonstration project has created dynamic and influential changes in the delivery of care
- The hospital, physicians, and post-acute partners are better coordinating care transitions and are communicating important clinical information about shared patients
- Our patients are experiencing improved care through enhanced coordination and communications between providers



Future of Bundled Payment

Challenges:

- Based on the 2013 CMS targets, the demonstration project is having a negative financial impact on NYULMC when you account to the cost incurred and the revenue lost due to care redesign.
 - \$3 Mil in staffing cost to get ready and \$1.5 Mil/year going forward
 - Loss of acute rehab revenue, \$15,000 per case, 370-400 cases in 2013
 - Loss of IME, DME, DSH add-ons revenue associated with the acute rehab inpatient cases
 - Reduction in readmissions, estimated at 24 cases in 2013 at \$12,500 per case plus \$7,500 per case for IME, DME and DSH add-ons per case
- Recent data fluctuations are barriers to success. Baseline target prices and volumes keep changing, resulting in the inability to accurately predict financial performance and resulting in mixed messages to the physicians
- Without predictability of financial performance at both the initiative and physicianlevels, it is difficult to maintain clinician engagement in existing bundles and will definitely hinder expansion to additional bundles



