2013 NATIONAL HEALTH CARE FOR THE HOMELESS CONFERENCE & WASHINGTON, MARCH JA, 2013, 1.2.30PM
THURSDAY, MARCH JA, 2013, 1.2.30PM POLICY SYMPOSIUM

RESPITE CARE DEMONSTRATING COST. EFFECTIVE NESS SERVING MENTAL HEALTH CLIENTS IN

SPEAKERS

- Dr. Nishant Shah, MD, MPH Medical Director, Contra Costa
 County Health Care for the Homeless Project
- Amanda Stempson, JD Staff Attorney, HomeBase
- Jay Lee, JD Staff Attorney, HomeBase

RESPITE CARE: WHAT IS IT?

- Acute and post-acute medical care for homeless persons
- Too ill or frail to recover on the streets
- Not ill enough to be in a hospital

RESPITE CARE: IN CONTRA COSTA COUNTY



RESPITE CARE: IN CONTRA COSTA COUNTY

- Philip Dorn Respite Center 24 beds
- City of Concord's Adult Shelter facility
- Referrals from all major hospital systems
- Full-time Health Care for the Homeless Nurse
- 226 referrals & 59 placements in July-December, 2012

RESPITE CARE: HEALTH OUTCOMES

- 3-4 times more likely to die prematurely
- Lack of a stable home environment diminishes long-term effectiveness of hospital care
- Difficulty following self-care instructions due to stress, exposure, poor nutrition, and limited access to water & bathing facilities

RESPITE CARE: MAKING THE ECONOMIC CASE

- System-wide Savings (Kertesz, et al, 2009)
 - 50% fewer hospital readmissions within 90 days of discharge

RESPITE CARE: MAKING THE ECONOMIC CASE

- System-wide Savings (Buchanan, et al. 2006)
 - 58% fewer inpatient days
 - 36% fewer emergency department visits
 - 12% more outpatient clinic visits during 12-month postdischarge period

But How Much Are <u>We</u> Saving?



- (1) Average Cost Comparisons
 - San Francisco Medical Respite & Sobering Center
 - Operating Costs per bed per day = \$180
 - Average CA hospital expenses per inpatient day = \$2,279
 - Difference = \$2,099 per day.
 - BUT Comparing Apples to Oranges?

- (2) Estimating Avoided Bed Days
 - Sacramento Interim Care Program (ICP)
 - Called its 4 referring hospitals every day
 - How many patients they <u>would have</u> referred to respite if beds had been available
 - Average number of days such patients remained in inpatient care vs. average number of days spent in respite care

- (2) Estimating Avoided Bed Days (cont.)
 - Every 4 days in ICP saved 1 hospital day.
 - Average ICP costs per bed = \$120
 - Average hospital costs per inpatient bed = \$1,200
 - Cost savings per day = $$720 ($1,200 4 \times $120 = $720)$
 - BUT Time-Intensive
 - Also Relies on Estimates from 4 or more Discharge Planners

- (3) Multi-Factor Formula
 - "Utah Formula" from Fourth Street Clinic in Salt Lake City
 - Shifts Focus from ABD to Total Cost Savings
 - ABD
 - PLUS Reductions in ER Admissions
 - Factoring in Insurance Recovery Rate
 - BUT relies on System-Wide Cost Savings (Buchanan, et al. 2006)
 - Cost savings formula is not tied to hospitals' costs

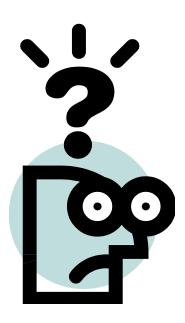
- (4) Medicare LOS-Based Avoided Bed Days
 - Santa Clara County Medical Respite Program (MRP)
 - Medicare Reimbursement Geometric Mean Length of Stay (Medicare LOS)
 - Mean length of hospitalization for given procedure, determined by the Medicare Diagnosis-Related Group (DRG) guidelines for classifying medical procedures.

- (4) Medicare LOS-Based Avoided Bed Days (cont.)
 - Avoided Bed Days = Medicare LOS Actual Length of Stay + "Homeless Factor"
 - "Homeless Factor" = 4.1 days, based on national studies showing that homeless people stay an average of 4.1 days longer than housed patients

- (4) Medicare LOS-Based Avoided Bed Days (cont.)
 - E.g., John Doe with Cellulitis w/o Multiple Chronic Conditions
 - DRG Code = 603
 - Medicare LOS = 3.8 days
 - Actual length of hospitalization = 6 days
 - Homeless Factor = 4.1
 - Avoided Bed Days (ABD) = 3.8 6 + 4.1 = 1.9 days

- (4) Medicare LOS-Based Avoided Bed Days (cont.)
 - Benefits Ability to estimate ABD for each patient & each type of procedure
 - BUT psychiatric patients' LOS not well-predicted by DRG LOS

COST SAVINGS FORMULA: WHICH TO CHOOSE?



- Hybrid of Medicare LOS Formula and "Utah" Formula
 - Total Cost Savings =
 - Cost Savings from Avoided Bed Days for Non-Psychiatric Patients
 - Plus
 - Cost Savings from Avoided Bed Days for Psych Patients
 - Plus
 - Cost Savings from Reduced ER Admissions

- Hybrid of Medicare LOS Formula and "Utah" Formula
 - Cost Savings from Avoided Bed Days for Non-Psychiatric
 Patients =
 - Medicare LOS Actual LOS + Homeless Factor of 4.1
 - Multiplied by:
 - Average Hospital Inpatient Cost per Day
 - Multiplied by:
 - 93% (Factoring in 7% Insurance Recovery Rate for homeless patients)

- Hybrid of Medicare LOS Formula and "Utah" Formula
 - Cost Savings from Avoided Bed Days for Psychiatric Patients =
 - Estimated Avoided Bed Days (By asking Referring Hospitals to estimate ABD based on patients' psychiatric condition)
 - Multiplied by:
 - Average Hospital Psych Inpatient Cost per Day
 - Multiplied by:
 - 93% (Factoring in 7% Insurance Recovery Rate for homeless patients)

- Hybrid of Medicare LOS Formula and "Utah" Formula
 - Cost Savings from Reduced ER Admissions =
 - Average Reduction in ER Admissions for Respite Clients (0.8 based on Buchanan, et al. 2006)
 - Multiplied by:
 - Average Unrecoverable Cost of ER Admissions (\$1,203 based on national average ER expense per uninsured)
 - Multiplied by:
 - Number of Clients Discharged to Respite per Year

- Hybrid of Medicare LOS Formula and "Utah" Formula
 - Total Annual Cost Savings =
 - (Total ABD_{non-psych} x Average Hospital Cost/Day_{non-psych} x 93%)
 - +
 - (Total ABD_{psych} x Average Hospital Cost/Day_{psych} x 93%)
 - +
 - Cost Savings from Reduced ER Admissions

- Hybrid of Medicare LOS Formula and "Utah" Formula
 - Total Annual Cost Savings =
 - (Total ABD_{non-psych} x Average Hospital Cost/Day_{non-psych} x 93%)
 - +
 - (Total ABD_{psych} x Average Hospital Cost/Day_{psych} x 93%)
 - +
 - Cost Savings from Reduced ER Admissions

- Ongoing Fine-tuning
 - E.g., Updating DRG Codes to reflect underlying medical condition
 - John Doe 58-year old male with Stage 4 tongue cancer
 - DRG Code was for mouth procedures Medicare LOS of 3.8 days
 - Actual Length of Stay was 121 days
 - Died in Respite

- Challenge in Demonstrating Cost Savings
 - Mental Health Patients
 - Hospitals report that Psychiatric DRG Code does not predict actual LOS (which may also reflect relative inefficiencies of care)
 - Respite clients with primary psychiatric diagnoses often stay in respite for a very long time

- Challenge in Demonstrating Cost Savings
 - Temporary Solution
 - Asking referring hospitals to estimate avoided bed days based on patient's mental health condition
 - BUT discharge planners typically not equipped to accurately estimate predicted LOS

- Challenge in Demonstrating Cost Savings
 - Alternative Solutions?
 - 5-variable analyses (Huntley, et al. 1998)
 - Primary diagnosis of schizophrenia
 - Number of previous admissions
 - Primary diagnosis of mood disorder
 - Age
 - Secondary diagnosis of alcohol or other SA disorder

- Challenge in Demonstrating Cost Savings
 - Alternative Solutions?
 - Shifting focus back to quality of patient care

QUESTIONS?

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