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How Health Care
transparency improved
patient care and reduced
costs at Oakwood.

Bluegrass Oakwood 2011

- Decubitus Ulcer Prevention Initiative
- UTI Intervention program
- Antibiotic diarrhea prevention program
- Ear Infection Intervention program

DOJ Demands

- Credible reporting of data via “Key Indicators”
- Reliable evaluation of performance via Clinical Service Reviews (CSRs)
- Performance Improvement Initiatives

DOJ

- Honest Reporting
- Non punitive
- If you don't look for it you will not find it

Data Collection Problems

- Don't want to look bad
- Not always reporting the same "event"
- Need "entry" and "exclusion" criteria

Decubitus Ulcers

Decubitus

- Started with 12 reported cases a year in 2005
- Skin Breakdown Risk Assessment initiated in early 2006
- Braden Scale
 - Relatively simple to apply
 - Done annually unless sudden change in health
 - Produces a “number” which assigns risk of skin breakdown

Decubitus - Braden

- Sensory Perception
- Moisture
- Activity
- Mobility
- Nutrition
- Friction and Sheer

- Scored 6 (worst) – 23 (best)

Decubitus - Braden

- No risk 17 - 23
- Mild risk 15 – 16
- Moderate risk 13 – 14
- High Risk 12 or less

Decubitus

- WOCN or MD saw all Moderate or High risk patients (8% of our residents)
- Liberal proactive use of protective devices
 - Waffle cushions
 - Alternating Pressure Mattresses
 - WOCN “in charge” of staging ulcers

Decubitus

- Of the 12 incidences $\frac{1}{2}$ from hospital
- Rounded on hospitalized patients daily
- Advocated for skin care

Decubitus

- Results 3 “in house” decubitus in 5 ½ years
1 “hospital” acquired
- All stage 2
- All healed within 2 weeks
- Despite a reduction in residents, overall a huge reduction of decubitus ~ 90%

Decubitus

- Make it possible for anyone to raise concern – without ridicule
- Have the resources to evaluate all cases
- Have the funding to be pro-active

Decubitus Cost v Savings

- Decubitus costs \$2,000 - \$40,000
- Cost of WOCN
- Cost of equipment interventions at Oakwood \$10,000 - \$20,000

Urinary Tract Infections

UTI

- What counts ?
- Symptomatic v Asymptomatic
- Confounded by annual screening U/A's
- Use of standardized criteria

Percentage of infections meeting McGeer's criteria 4th Quarter 2008

- October-16 of 28 met criteria - 57%
- November-18 of 29 met criteria - 62%
- December-23 of 30 met criteria - 77%
- Total for quarter-57 of 87 met criteria - 66%

Percentage of infections meeting McGeer's criteria 2nd quarter 2009

- April -34 of 35 met criteria - 97%
- May -29 of 31 met criteria - 94%
- June -38 of 42 met criteria - 90%
- Total for quarter – 101 of 108 met criteria – 94%

UTI

- Only counted McGeer Criteria +
- Introduced pH balanced perineal cleansers
- Toileting programs
- Diaper checks
- Started using more absorbable diapers

UTI

UTI's 10 months previous to 11/2008
59 for 5.9 average per month.

UTI's 10 months from 11/2008 on
28 for 2.8 average per month.

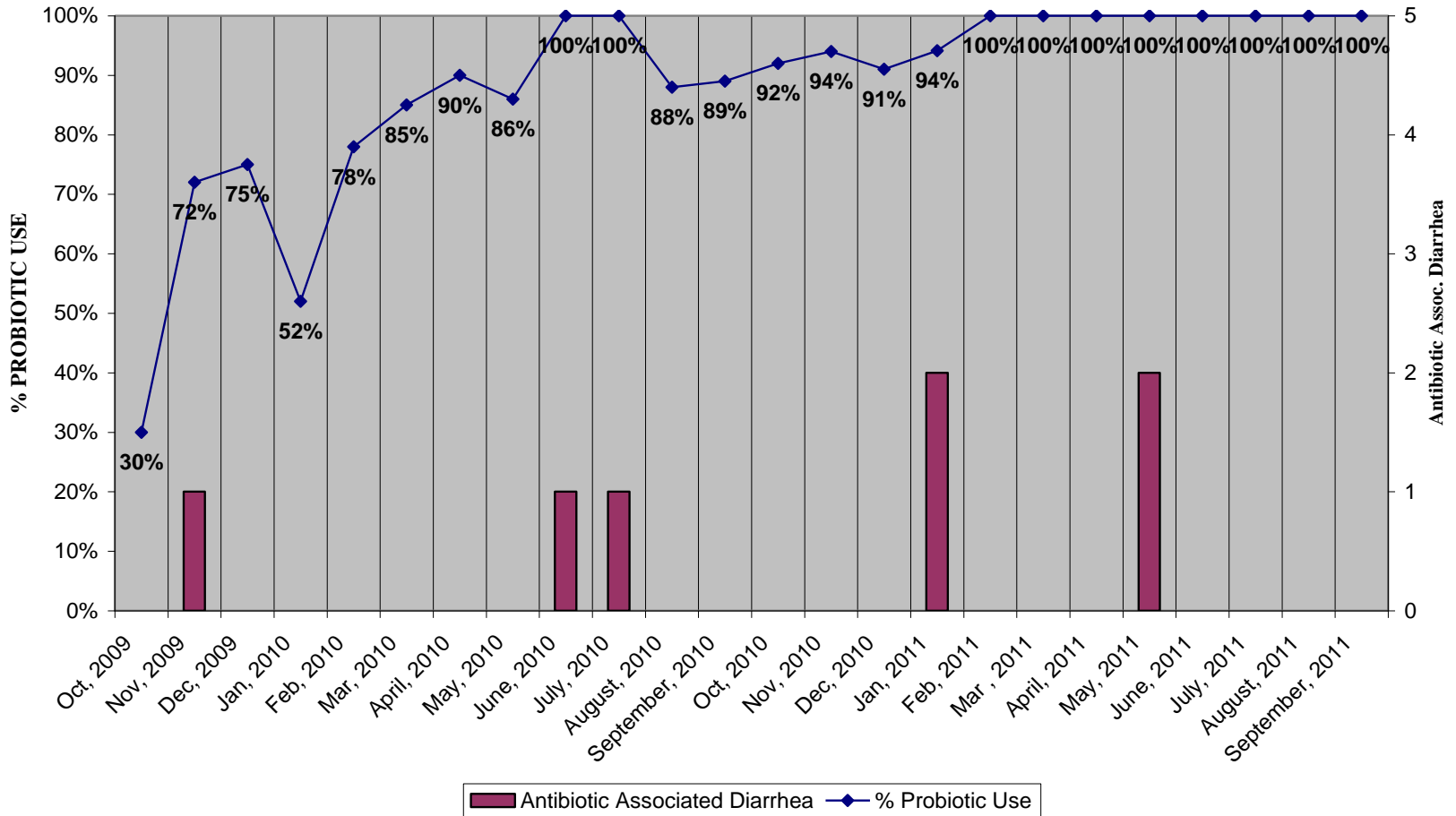
> 50% reduction

Antibiotic Induced Diarrhea

Antibiotics and Diarrhea

- Year prior to Sept 2009 6 cases
- Found by tracking Adverse Drug Reactions
- Initiated Probiotics with antibiotic usage
 - Initial problems with adequate dosage of *Lactobacillus GG*
 - *Need 10 billion bacteria per serving !*

% Probiotic Use Oct 2009-September 2011)



Antibiotics and Diarrhea

- Now system in place for 100% compliance for *lactobacillus* use

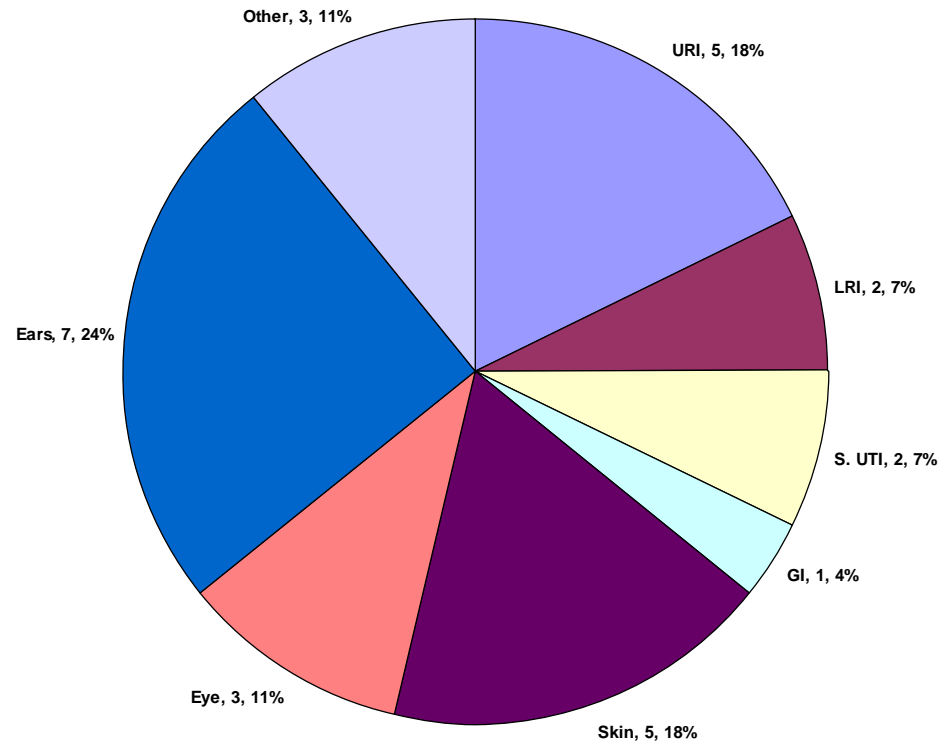
50% reduction in antibiotic related diarrhea

Never would have known we had the problem without tracking

Ear Infections

Ear Infections

Infections 2/2010



Ear Infections

- High because of anatomy
- Problem with pain and self inflicted injury
- Long term consequences
 - Deafness
 - Mutilation
- Team felt we should be able to prevent some % of these

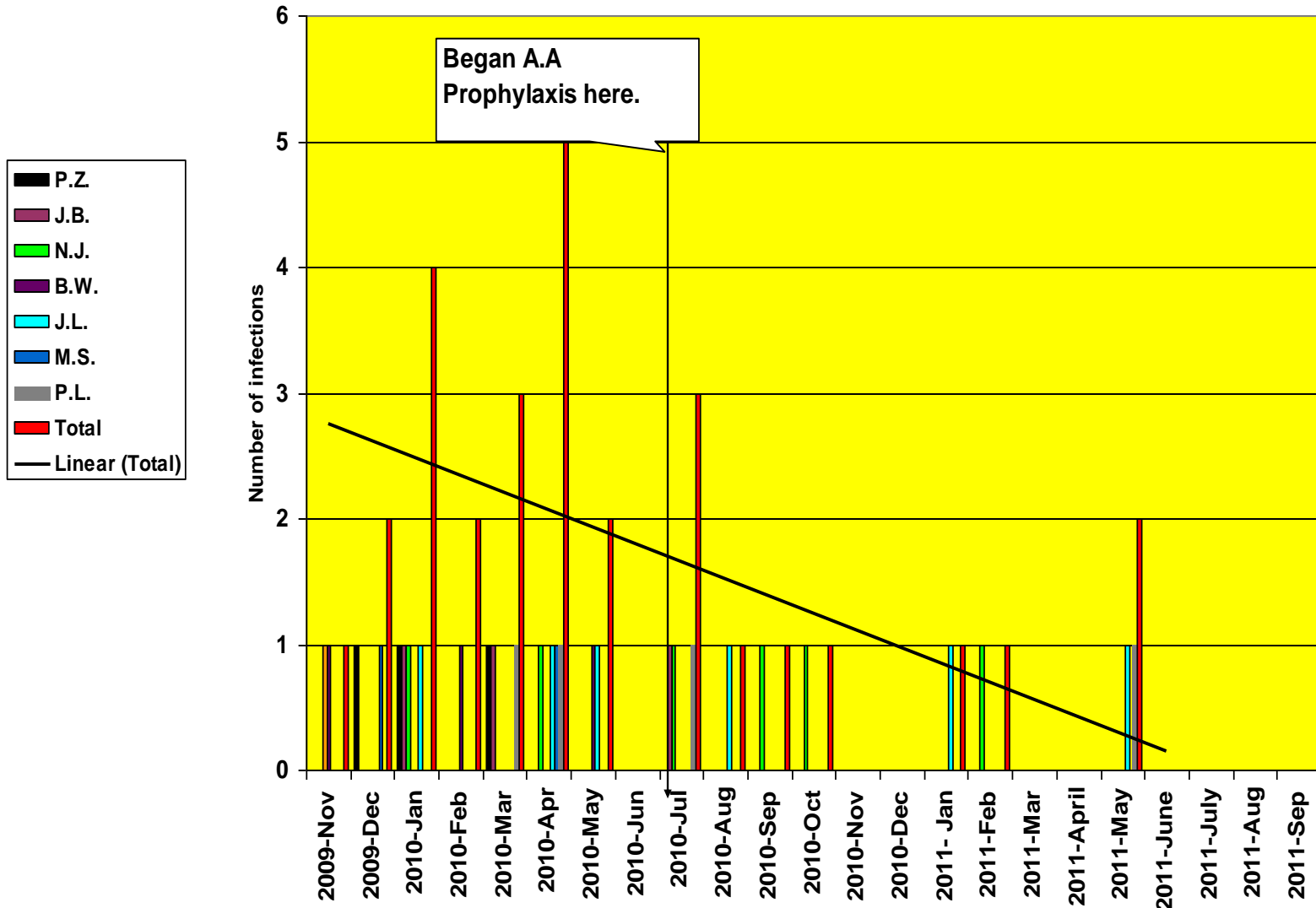
Ear Infections

- Use of 2% Acetic Acid ear drops daily
- Inclusion 2+ infections in prior 6 months
- Initially 10 patients (2 later discharged)
- 8 patients had 18 infections in prior 6 months

Acetic Acid Prophylaxis 4th Q 2010

- Data seven months into the project suggests a positive impact with only six reported ear infections in seven months; compared with 18 reported in the previous six months for the eight individuals in the study.
- ~ 66% reduction

Ear Infections Before And After Acetic Acid Prophylaxis



Acetic Acid Prophylaxis 3rd Q 2011

- Now 15 months into project
- Original 8 have had a total of
-
- Expansion of protocol to other infected individuals

New Challenges

- Skin Infections.....

Infections 3rd Quarter 2011

