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Parent satisfaction with same day discharge after laparoscopic appendectomy for non perforated appendicitis

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Parent Satisfaction With Same-Day Discharge After Laparoscopic Appendectomy For Non-Perforated Appendicitis

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Disclosures:



- **Nelimar Cruz-Centeno, MD**
- **Nothing to Disclose**

Introduction

- Same-day discharge (SDD) after laparoscopic appendectomy for acute non-perforated appendicitis is safe
- Non-perforated appendicitis defined as absence of a hole in the appendix or fecalith in the abdomen
- We aimed to evaluate parental satisfaction with this protocol

Methods

- Quality improvement project at a single tertiary care pediatric center
- Patients <18 years old with non-perforated appendicitis
- Study period: January-August 2022
- Online surveys distributed 96 hours after discharge
- Caregivers that did not answer the online survey were contacted by phone

Same Day Discharge Protocol

Appendicitis diagnosed

Orientation about SDD for non perforated appendicitis

Ceftriaxone (50 mg/kg) and Metronidazole (30 mg/kg) given before surgery



Non-perforated appendicitis confirmed

Single or three incision laparoscopic appendectomy

0.25% bupivacaine injected at trocar sites

IV Ketorolac given at the end of procedure



Observation Unit

Weight based IV acetaminophen

Regular diet

Pain medication switch to oral and combined with ibuprofen

Discharged home

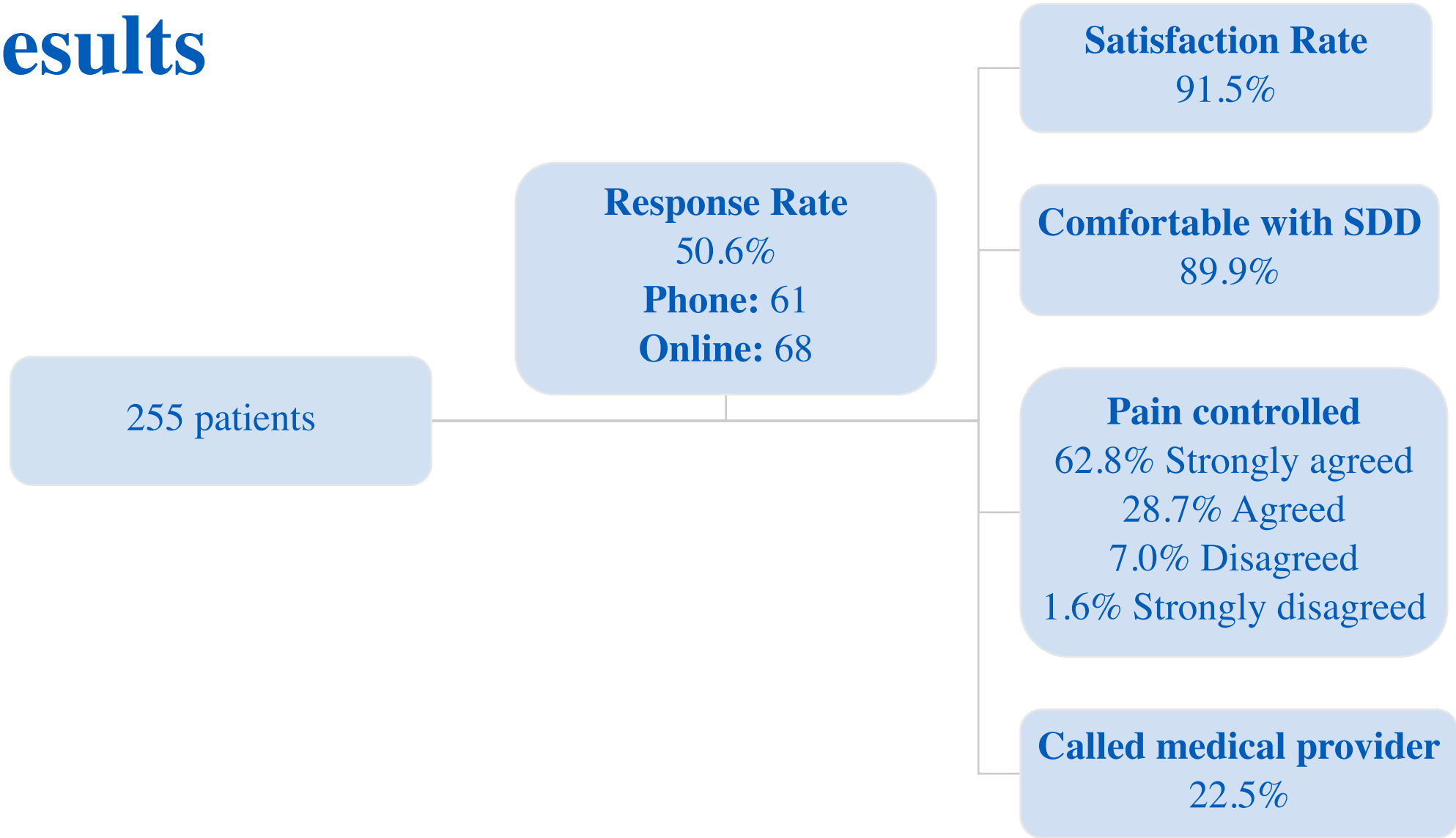
Survey Questions

Questions	Possible Answers
Did you feel comfortable with same day discharge after your child's appendectomy?	Yes No
Have you called a medical provider since being discharged from the hospital for any issues related to your child's surgery?	Yes No
Since discharge, my child's pain has been well controlled.	Strongly Agree Agree Disagree Strongly Disagree
Overall, I was satisfied/unsatisfied with same day discharge after my child's appendectomy.	Satisfied Unsatisfied
Comments: (Please let us know any comments about your experience and/or your child's experience after discharge)	

Statistical Analysis

- Data presented as medians with interquartile ranges (IQR) and frequencies with percentages
- Differences analyzed using the chi-square test for categorical variables and the Wilcoxon signed-rank test for continuous variables
- Significance was defined as a $P < 0.05$

Results



Demographic and baseline characteristics for respondents and non-respondents

	Respondents	Non-respondents	p-value
Gender			0.1
Male	67 (51.9%)	78 (61.9%)	
Female	62 (48.1%)	48 (38.1%)	
Race			0.2
Caucasian	89 (69.0%)	82 (65.1%)	
Hispanic	16 (12.4%)	11 (8.7%)	
African American	4 (3.1%)	9 (7.1%)	
Multiracial	4 (3.1%)	7 (5.6%)	
Asian	1 (0.8%)	4 (3.2%)	
American Indian	1 (0.8%)	0 (0.0%)	
Declined	2 (1.6%)	4 (3.2%)	
Unknown	1 (0.8%)	4 (3.2%)	
Other	4 (3.1%)	1 (0.8%)	
Not available	7 (5.4%)	4 (3.2%)	
Age (years)	12.0 (8.9,14.7)	12.7 (8.9,15.5)	0.2
Demographic area			0.4
A	39 (30.2%)	32 (25.4%)	
B	34 (26.4%)	34 (27.0%)	
C	10 (7.8%)	14 (11.1%)	
D	9 (7.0%)	4 (3.2%)	
E	5 (3.9%)	11 (8.7%)	
F	5 (3.9%)	1 (0.8%)	
G	1 (0.8%)	3 (2.4%)	
Other	26 (20.2%)	27 (21.4%)	

Characteristics of online and telephone survey respondents

	Telephone survey N=61 (47.3%)	Online survey N=68 (52.7%)	Total N=129	P-value
Age (yrs)	12.8 (9.6,15.4)	11.1 (8.4,14.3)	12.0 (8.9,14.7)	0.08
Gender				0.91
Male	32 (52.5%)	35 (51.5%)	67 (51.9%)	
Female	29 (47.5%)	33 (48.5%)	62 (48.1%)	
Race				0.13
Caucasian	35 (57.4%)	54 (79.4%)	89 (69.0%)	
Hispanic	10 (16.4%)	6 (8.8%)	16 (12.4%)	
African American	3 (4.9%)	1 (1.5%)	4 (3.1%)	
Multiracial	3 (4.9%)	1 (1.5%)	4 (3.1%)	
Asian	0 (0.0%)	1 (1.5%)	1 (0.8%)	
Other	4 (6.6%)	1 (1.5%)	5 (3.9%)	
Declined	6 (9.8%)	4 (5.9%)	10 (7.8%)	
Post-op LOS (hrs)	3.8 (2.9,4.8)	3.8 (3.2,4.7)	3.8 (3.2,4.8)	1.0

Survey answers for the online and phone surveys

Questions	Phone survey		Online survey		Total		p-value
Comfortable?							0.6
Yes	56	(91.8%)	60	(88.2%)	116	(89.9%)	
No	5	(8.2%)	8	(11.8%)	13	(10.1%)	
Call provider?							0.8
Yes	3	(21.3%)	16	(23.5%)	29	(22.5%)	
No	8	(78.7%)	52	(76.5%)	100	(77.5%)	
Pain controlled?							0.8
Agree	57	(93.4%)	61	(89.7%)	118	(91.5%)	
Disagree	4	(6.6%)	7	(10.3%)	11	(8.5%)	
Satisfied?							0.3
Yes	54	(88.5)	64	(94.1%)	118	(91.5%)	
No	7	(11.5)	4	(5.9%)	11	(8.5%)	

Conclusions

- Same-day discharge following laparoscopic appendectomy is feasible, with high parental satisfaction
- Good pain control with non-opioid medications
- Minimal unplanned telephone follow up

