

Informed Consent (IC) in Advance of Pediatric Interventional Radiology (IR) Procedures

- Work In Progress



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Introduction

- Many Interventional Radiology (IR) procedures require Informed Consent (IC)
- Giving IC for pediatric procedures is difficult for parents, and time consuming when done thoroughly
- IC immediately prior to a procedure is very stressful for families
- Ideally:
 - IC should be obtained well in advance, or temporally separate from the procedure
 - IC in advance allows parents to absorb information provided without time constraints
 - Having obtained IC in advance may avoid delays and increase efficiency on the day of the procedure
- In Reality:
- IC is often obtained immediately prior to the procedure in a busy pediatric IR service
- Thus, we developed a Quality Improvement (QI) Initiative for IC to be obtained in advance

Objective:

To increase the proportion of cases in which we obtain IC in advance

Materials and Methods

Setting: A pediatric tertiary care academic hospital serving children (neonate - 18 yrs) A busy IR (Image Guided Therapy, IGT) department (> 5000 cases/year)

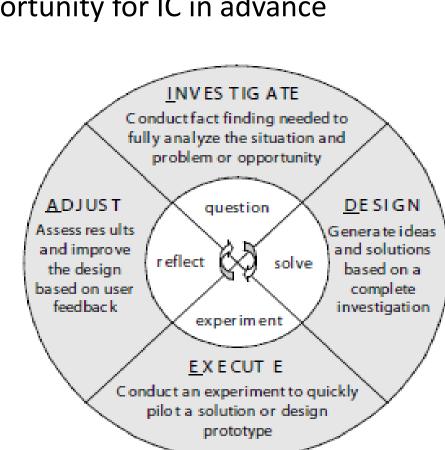
Patient Population: Approx 50-60 % of all IGT cases require IC to be obtained

Approx 50% cases are urgent add-ons, without opportunity for IC in advance

Definition: "IC in advance" was defined as:

Consent obtained ≥ 1 day prior $\mathbf{or} \geq 2$ hours in advance of a same procedure and in a separate encounter with parents

Method: Multiple **IDEA loops** (Investigate, Design, Execute, Adjust) similar to PDSA (Plan, Do, Study, Act) cycles

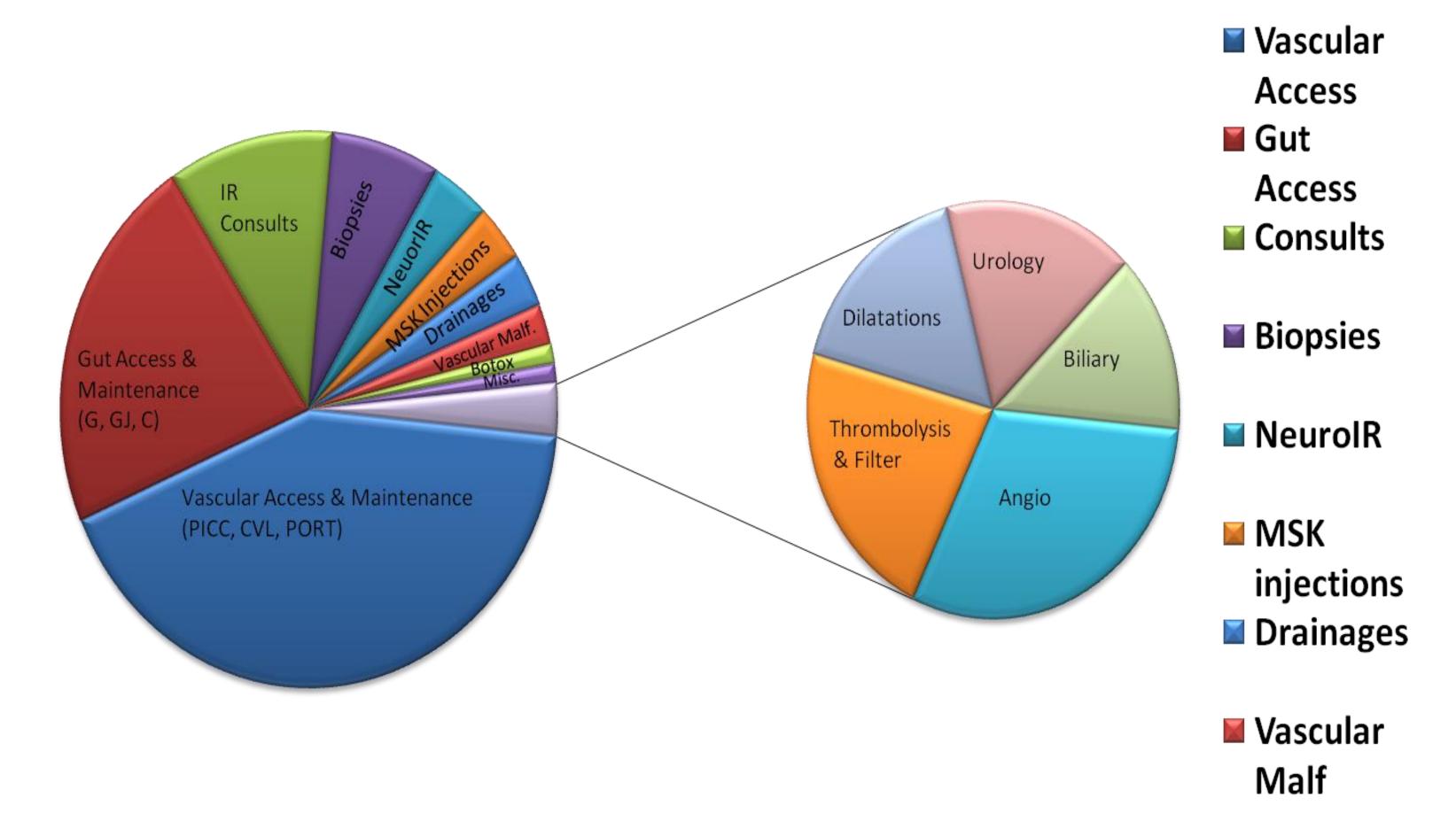


1. INVESTIGATE:

Mapped the current process and current state by:

- Created Flow chart of process for obtaining IC, both detailed and top level
- Analysed <u>case profile</u> in IGT (Fig 1)
- Analyzed prior IC forms by reviewing the IC forms from 1 week every month
- Determined <u>proportion obtained in advance</u>
- Analyzed type of cases and reasons why consent not obtained in advance

Fig 1. Analysis of cases done in IGT in 2010



2. DESIGN

- Polled the IGT Team to ensure support for this QI initiative
- Held multidisciplinary meeting with key personnel:
 IGT Clinic RN, Manager, Medical Director, IGT Pediatrician, IGT Radiologists etc.
- Brainstormed to decide strategies to increase the # of IC in advance
- Focused on specific elective cases associated with moderate risk & which entailed a lot of information

c) G Tube insertions

- Created new processes for specific referrals to these cases to the IGT Clinic
- Planned a satisfaction survey of IGT Team and parents about IC in advance

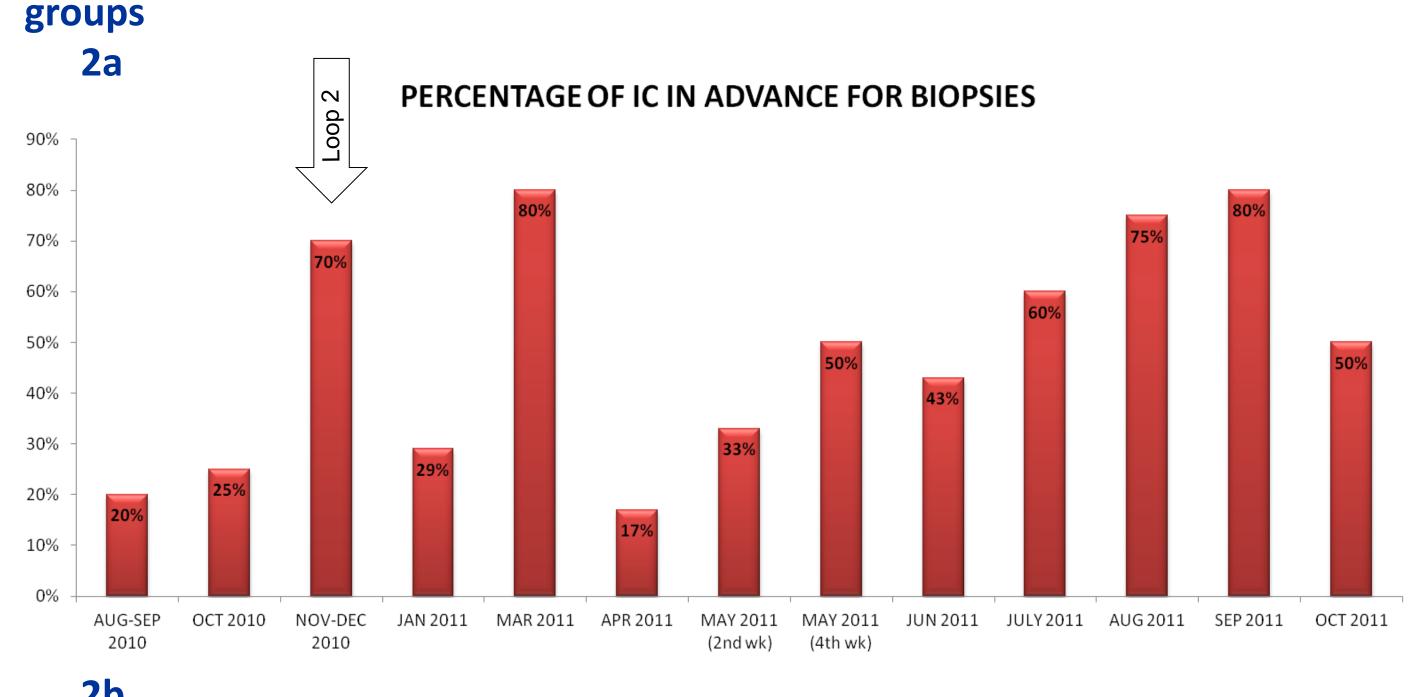
3. EXECUTE:

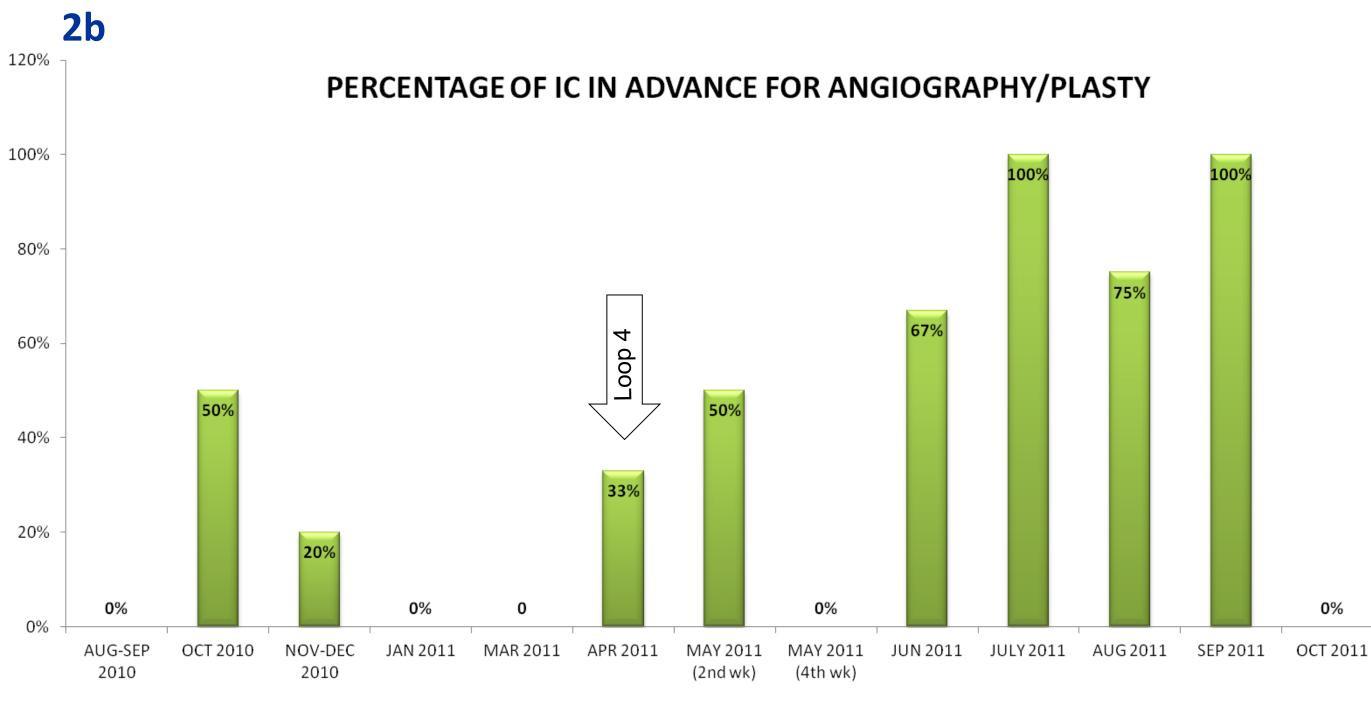
- IDEA Loop 1. Oct '10: Introduction of the plan to undertake this QI initiative on IC in advance
- IDEA Loop 2. Nov '10: Encouraged IC in advance for elective biopsies (e.g. liver)

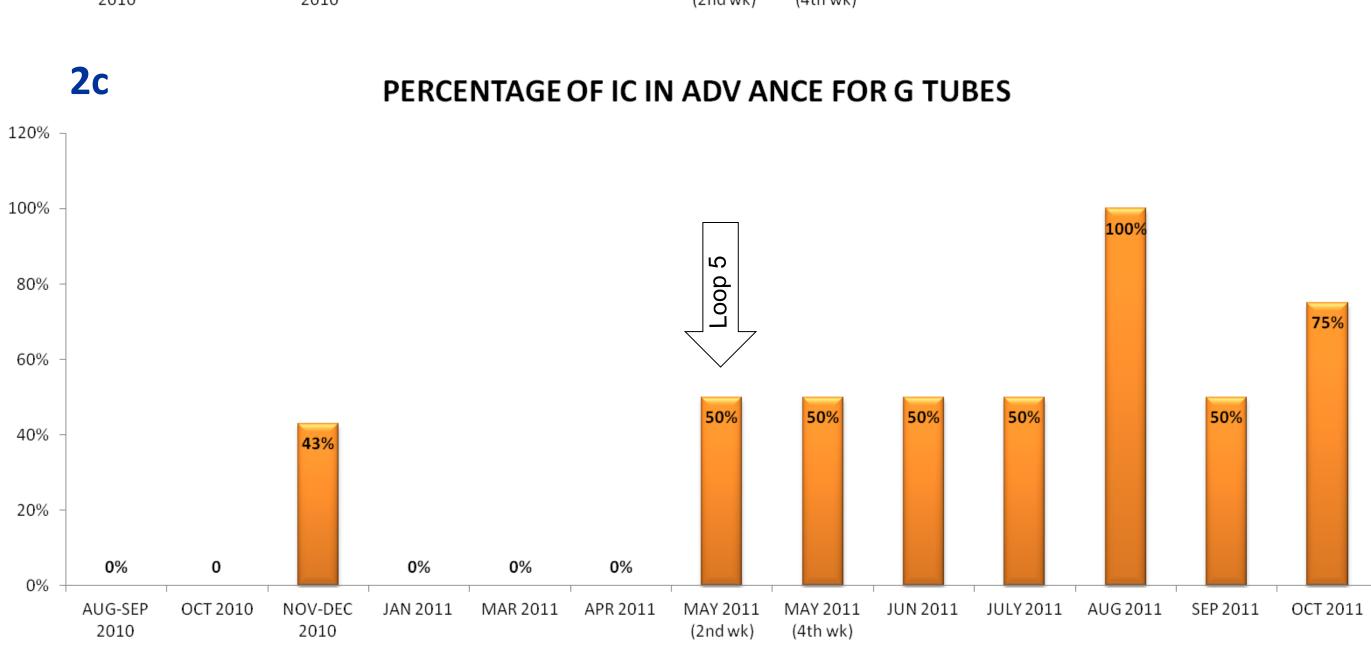
b) Angiography/Angioplasty/Embolization

- IDEA Loop 3. Mar'10: Further promotion of concept of IC in advance amongst IGT team ongoing
- IDEA Loop 4. Apr '11: New referrals for angiography to come to the IGT Clinic in advance of procedure
- IDEA Loop 5. May '11: New referrals for G /GJ tube insertions to come to IGT Clinic
- IDEA Loop 6. Jul '11: Worked with teams to integrate process with parental visit to G tube class
- IDEA Loops: Ongoing with repeat re-evaluation

Fig 2a, 2b & 2c. Results of Evaluations pre and post Interventions of targeted







Staff Survey:

IGT staff surveyed regarding their opinions of this Q.I initiative.

Survey asked 4 questions, using 5 point Likert Scale: 1 disagree – 5 agree

Staff believe the following about IC in advance:

- **1.** Improved IGT efficiency (mean score 4.7);
- 2. Helped parents make better decisions (mean score 4.6);
- **3.** Gave parents more time to ask questions (mean score 4.7);

4. Promoting IC in advance was worthwhile (mean score 4.7)

4. ADJUST:

Ongoing IDEA loops in progress with cyclical adjustments.

Continued evaluation of processes for obtaining IC in advance, in terms of efficiencies, impact on list, impact on parents

New processes still to be developed for other types of elective cases (e.g. esophageal dilatations).

Reassess and perform further IDEA Loops after parental survey

Challenges & Solutions

1. Form Compliance: Documenting the time on consent form, increases accuracy of data collected

All forms were dated – several no time documented

2. Staffing: Insufficient staff in IGT assigned to consistently facilitate IC in advance

Re-address role of "consult person" to getting consents in advance

3. Parents/Families: Parents often not in house to give consent; IC over the telephone is not ideal

Translators frequently required

4. Referring teams: Many teams buy into broad clinical role of IGT and IGT Clinic

Resistance amongst some referral services to the concept of IGT Clinic visit Need to highlight advantages for patient and referring team of IC in advance

Repeat assessment of each NEW current state, to identify further patient groups

Develop new processes / further IDEA Loops

6. Commitment: Promoting "buy-in" and immediate advantages for IGT team regarding IC in advance

Compatibility of new processes with work flow Ensure new processes are "Value added" steps

7. Survey: Perform family satisfaction survey regarding IC in advance

At design stage and awaiting REB approval

Future Steps

5. Patient Groups:

- 1. Parental Satisfaction Survey
- 2. Target new procedures
- 3. Staff assignments to enable IC in advance

Conclusion

• Given time, effort, and understanding of the inherent advantages for all concerned with IC in advance, the culture in IGT is already changing as we embrace this QI initiative

References:

- 1. VanPatten BA. Using continuous improvement to obtain and document informed consent. J Health Qual. 1998 May- Jun; 20(3):24-5, 28-9.
- 2. Steele JR, Wallace MJ, Hovsepian DM, James BC, Kundu S et al. Guidelines for establishing a quality improvement program in interventional radiology. J Vasc Interv Radiol. 2010 May;21(5):617-25.
- 3. Erlen JA. Informed consent: revisiting the issues. Orthop Nurs. 2010 Jul-Aug; 29(4):276-80
- 4. Hulscher ME, Laurant MG, Grol RP. Process evaluation on quality improvement interventions. Qual Saf Health Care. 2003 Feb;12(1):40-6.
- 5. Foglia MB, Salas HS, Diekema DS. A quality improvement approach to improving informed consent practices in pediatric research. J Clin Ethics. 2009 Winter;20(4):343-52.
- 6. Grassi CJ. ACR Practice Guideline on Informed Consent for Image-Guided Procedures. Revised 2006 (Res. 32)