

From Crowd to Bedside: Development of a Patient-Centered Informed Consent for Lung Cancer Surgery Using Social Media

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BACKGROUND

- An essential element of informed consent includes disclosure of all significant risks and benefits associated with the procedure, its alternatives, and in not receiving treatment.¹
- Yet patients' unmet information needs are among the highest negative post-operative experiences.^{2,3,4}
- A recent study investigating the patient experience in unsuccessful surgical procedures found that these patients felt unprepared for their treatment outcome and wished they had received more information regarding potential complications.²

HYPOTHESIS

Ultimately, we will test the hypothesize that by expanding informed consent to include real-world statements on post-operative limitations from patients who have undergone either a pulmonary sublobar resection or lobectomy, we will improve patients' understanding of the associated post-operative risks and potential long-term patient outcomes after lung cancer surgery.

OBJECTIVE

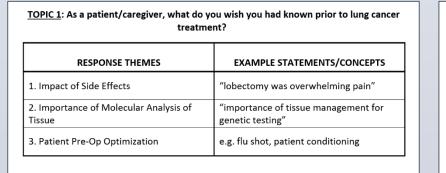
We describe the initial process of developing a patient-centered informed consent for lung cancer surgery.

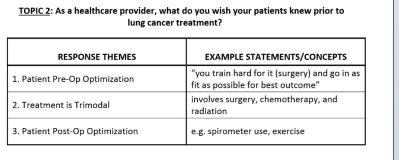
METHODS

- On 6/18/15 utilizing the novel social media patient engagement platform, #LCSM Chat (Lung Cancer Social Media; Icsmchat.com), a Tweet Chat was held using the following questions as discussion points:
 - As a patient or caregiver, what do you wish you had known prior to lung cancer treatment?
 - As a healthcare provider, what do you wish your patients knew prior to lung cancer treatment?
 - What is the best way to get accurate information on potential outcomes to patients prior to treatment?
 - What barriers exist to getting this information to patients in a timely manner?
 - Would patient/caregiver testimonials as a patient-centered informed consent be helpful in conveying accurate & realistic outcomes?
- Tweet Chat participants were also asked to fill out a Survey Monkey based questionnaire.
- We performed content analysis of the Tweet Chat transcripts to identify important themes self-identified by lung cancer stakeholders as important.

Figure 1. Figure 2. Sample Tweets Figure 2. Sample Tweets The Numbers 2,254,132 Impressions 473 weets 36 Participants 355 Avg Tweets/Hours 13 Avg Tweets/Philipants

Table 1 (Topic 1-3). Top Three Response Themes per Topic from the 6/18/15 #LCSM 🔰 Tweet Chat





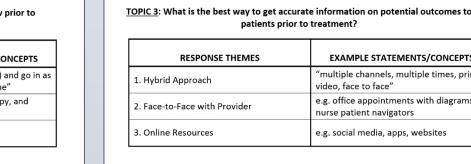


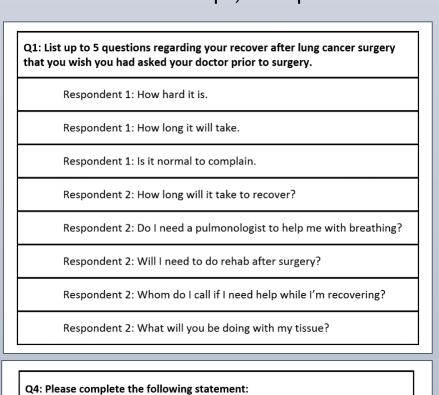
Table 2 (Q1-Q5). Survey Responses

The survey was designed, using qualitative data gathered from prior study Tweet Chats and in-person UC Davis Thoracic Surgery Patient Focus Groups, to capture the unmet needs and post-operative experiences of lung surgery patients.

Q2: List up to 5 post-operative complications you experienced and felt you

Respondent 2: Severe pain...had UL lobectomy and resected arteries.

Respondent 2: Pulmonary embolism due to necrosis to hip and femur.

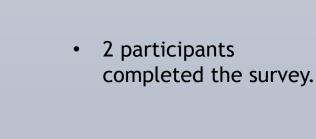


After my lung cancer surgery, I did not expect...

(Ex: "I did not expect my post-operative pain to continue for years.")

Respondent 1: nerve pain and numbness 17 years later.

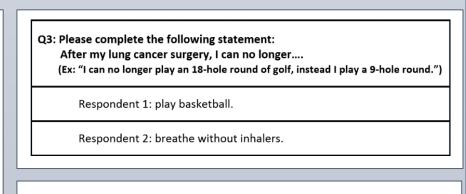
Respondent 2: to not be able to breathe without inhalers.



Respondent 2: Trouble swallowing.

Respondent 2: Trouble breathing while lying flat.

Respondent 1: Pain.



F	Respondent 1: Walk right away.
F	Respondent 1: Do your chest pt.
F	Respondent 1: Listen to your nurses.
	Respondent 2: Walk very short distances right awayaround the dining room table.
F	Respondent 2: Eat small meals often.
	Respondent 2: Call your physician before things become an emergency.

DISCUSSION

- This study provides valuable multi-stakeholder insight into the lung cancer patient post-operative experience.
- In regards to the additional survey, there were only two respondents despite 36 active Tweet Chat participants, and 2,254,132 passive impressions.
 - This low response rate speaks to the limitations of using social media as a way to collect data, i.e. many impressions, fewer interactions.

FUTURE GOALS

- Continue to administer survey (Table 2) to UC Davis postoperative lung cancer surgery patients.
- With the assistance of a UC Davis Thoracic Surgery
 Community Stakeholder Advisory Panel, translate survey
 responses into a novel patient-centered consent form for
 patients undergoing pulmonary resection.
- Perform a comparative-effectiveness analysis comparing those receiving the standard-of-care consent to those receiving the standard-of-care consent plus the patientcentered consent form, and determine any differences in patient satisfaction and decision regret.

REFERENCES

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