National Cancer Institute

Clinical Trials Planning Meeting on Improving Management of Small Renal Masses and Early Stage Renal Cell Carcinoma

NIH Campus, Bethesda, Maryland, January 23-24, 2020

Workshop Co-Chairs: Janice Dutcher, M.D., Michael Jewett, M.D. and Sabina Signoretti, M.D.

Introduction and Background

The National Cancer Institute organized a Clinical Trials Planning Meeting (CTPM) on Improving Management of Small Renal Masses (SRMs) and Early Stage Renal Cell Carcinoma in an effort by the Renal Task Force of the NCI Genitourinary Steering Committee. This CTPM occurred on January 23-24, 2020, at the NIH Main Campus in Bethesda (Maryland). It was chaired by Drs. Janice Dutcher, Michael Jewett, and Sabina Signoretti, and assembled leaders in the field to share scientific insights and identify emerging opportunities in basic, translational and clinical research.

The goals of the meeting were to advance the state-of-the-science to address the scientific and clinical questions related to SRM, to improve pre-treatment ability to predict clinical behavior, i.e., the likely clinical course of the SRM in the patient to individualize treatment. Experts in this meeting focused on: (i) designing clinical trials with objectives of correlating advanced imaging parameters (findings) with tumor biology, pathology and subsequent clinical course, to define imaging biomarker(s); (ii) correlating molecular analysis of tumor tissue obtained by renal mass biopsy with clinical course to define tumor tissue-based biomarker.

Potential deliverables of this CTPM include:

- 1. Proposal for 1 or more clinical trial concepts that will correlate advanced imaging findings and tissue-based molecular analysis to improve the certainty of diagnosis prior to definitive treatment of an individual patient.
- 2. One or more clinical trial concepts for treatment of localize renal masses and T1 tumors including extent of surgery (partial vs radical nephrectomy and ablation technologies).
- 3. A report addressing the uncertainties in the evaluation and management of renal mass including the design of a master protocol or trial to address them, including defining optimal tissue handling and banking for studies of kidney cancer and other renal mass histologies, natural history and response to treatment.

Summary of Discussions Leading to Action Plans for Addressing the Scientific and Clinical Challenges

The CTPM included four working groups who joined their expertise to address research questions on how to reduce SRM overtreatment by avoiding unnecessary intervention for benign or indolent disease, identifying the best treatment strategies based on a risk-stratified approach to management combined with an optimal follow-up, and assessing the cost of SRM management both at an institutional and individual patient levels. A number of clinical trial designs were considered and discussed, with several approaches focusing on evaluation of pre-treatment biopsy to guide clinical decision towards active surveillance or intervention that could generate data in the context of exploring novel endpoints including intervention free survival.

Participants within the scientific sessions covered the scope of the problem, discussed substantive strategies to explore biopsy information, the extent of resection, and the rates of local progression-free survival and systemic therapy-free survival, in the context of active surveillance versus intervention.

A number of substantive and collaborative ideas were generated as direct outcomes of this CTPM leading to a focus group including clinicians and statisticians that are joining their efforts in organizing the next steps of this endeavor by providing specific information on endpoints, sample size, power calculation and feasibility of clinical trials under consideration.

This Executive Summary presents the consensus arising from the Clinical Trials Planning Meeting. These action plans are not meant to address all clinical contexts, but rather represent priorities for publicly funded clinical research.

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NCI – Genitourinary Steering Committee – Renal Task Force

Clinical Trial Planning Meeting

Improving Management of Small Renal Masses

and Early Stage Renal Cell Carcinoma

Meeting Agenda

January 23 – 24, 2020

NIH Main Campus | Building 45 | Natcher Conference Center

45 Center Drive | Bethesda, Maryland 20892

ursday, January 23, 202	<u>0</u>		
8:00 AM - 8:05 AM	NCI Welcome		
8:05 AM – 8:10 AM	Welcome and Overview of Goals for the Workshop	Jan Dutcher, Michael Jewett, Sabina Signoretti	
Session1	: The Challenges of Small Renal Mass (SRM) and Renal Cysts Suspici	ous for Malignancy	
Chair: Hyung Kim			
8:10 AM – 9:20 AM	Session 1: The Challenges of Small Renal Mass (SRM) & Renal Cysts Susp for Malignancy	picious Hyung Kim	
	Urological Perspective	Robert Uzzo	
	Imaging Perspective	Ivan Pedrosa	
	Pathology Perspective	Sabina Signoretti	
	"Use of Biopsy"	Victor Reuter	
	"Use of Diagnostic Biomarkers"	Payal Kapur	
	Challenges from Patient and Caregiver Perspectives	Deb Maskens	
9:20 AM – 9:40 AM	Q&A – Discussion		

Break

	Break	
	Session 2: Endpoints and Clinical Trial Design	
	Session Chair: Brian Shuch	
9:55 AM – 11:25 AM	Introduction	Brian Shuci
	Development of Surrogate Endpoints and Relevance to Early Stage Cancer	Sundeep Agrawa
	Traditional Clinical Trial Endpoints: Sample Size, Power, Bias Challenges	Susan Halal
	Comparing Treatment Modalities Using PROs: How and When Appropriate	Paul Klue
	Traditional and Novel Radiologic Imaging Endpoints Relevant to Kidney Cancer	Andrew Smit
	Comparing Ablative Modalities: Pathologic Consideration	Chris Trindad
	Diagnostic/Predictive/Prognostic Molecular Biomarkers and Role of Utility	Anand Patha
	Functional Renal Endpoints for Kidney Cancer: Considering Surgical CKD	Bill Huan
	Discussion	
Session 3: Barriers to	O Conducting Trials in the Management of SRM and Lessons Learned from other	Early Stage Diseases
Session 3: Barriers to	O Conducting Trials in the Management of SRM and Lessons Learned from other Session Chair: Antonio Finelli	Early Stage Diseases
Session 3: Barriers to		Early Stage Diseases
Session 3: Barriers to 11:25 AM – 12:30 PM		
	Session Chair: Antonio Finelli	Antonio Fine
	Session Chair: Antonio Finelli Introduction	Antonio Fine Barry Kram
	Session Chair: Antonio Finelli Introduction Challenges in clinical trials	Antonio Fine Barry Kram Axel Bo
	Session Chair: Antonio Finelli Introduction Challenges in clinical trials Title TBD	Early Stage Diseases Antonio Fine Barry Kram Axel Bo Maxine Tra
	Session Chair: Antonio Finelli Introduction Challenges in clinical trials Title TBD	Antonio Fine Barry Kram Axel Bo
11:25 AM – 12:30 PM	Introduction Challenges in clinical trials Title TBD Title TBD	Antonio Fine Barry Kram Axel Bo
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11:25 AM – 12:30 PM 12:30 PM – 1:30 PM	Introduction Challenges in clinical trials Title TBD Title TBD Lunch	Antonio Fine Barry Kram Axel Bo
11:25 AM – 12:30 PM 12:30 PM – 1:30 PM	Introduction Challenges in clinical trials Title TBD Title TBD Lunch	Antonio Fine Barry Kram Axel B Maxine Tro

Working Groups will address the major 'challenge' questions key to trial concepts.

Preselected groups, with mix of expertise, will address one question each and will potentially work together for the

rest meeting to develop and own a concept

Breakouts Group Questions

- 1. How to reduce SRM overtreatment "Who to Treat"
 - How do we determine which SRMs and complex renal cystic masses suspicious for malignancy a. need treatment (as both have heterogeneous biology in terms of potential for growth and metastasis)? To include, what is the:
 - i. Role for biopsy (usually needle biopsy)
 - ii. Role for biomarkers including imaging virtual biopsy (serum, urine, tissue), functional imaging - also role for SRM detection and surveillance on and after treatment
- What is the best treatment "How to Treat" 2
 - What is the best SRM treatment? surgery (PN vs RN), ablations (RFA, Cryo, SBRT), active a. surveillance (AS)
- What is the best follow-up "Follow-up" 3.
 - How should we follow patients on surveillance for SRM/complex renal cystic mass and after a. treatment? Type, frequency of imaging, role biomarkers, etc.
- What is the 'cost' of SRM management "Cost" 4.
 - What is the impact of diagnostic and treatment uncertainties on patient anxiety? QOL, a. economics, decision making and compliance? Role of PRO's and other? Health economics.

2:45 PM - 3:00 PM

3:00 PM - 4:00 PM

Report Out by Breakout Groups

Session 5 (Part A): Moving Forward – Trial Concepts Town Hall

Session Chair: Gennady Bratslavsky

4:00 PM - 6:00 PM Trial Concepts Town Hall

Friday, January 24, 2020

Session 5 (Part B): Moving Forward – Trial Concepts Discussion and Consensus Session Chair: Gennady Bratslavsky		
8:00 AM - 11:30 AM	Trial Concepts discussion and consensus	

Objective: Design one or more clinical trial(s) the for management of SRM

Break

12:00 PM

Adjourn



NCI – Genitourinary Steering Committee – Renal Task Force Clinical Trial Planning Meeting

> Improving Management of Small Renal Masses and Early Stage Renal Cell Carcinoma

> > Meeting Participant List January 23 – 24, 2020

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