

Accuray Disclaimers and Disclosure

Disclosure

The views contained and expressed in this presentation, including any accompanying oral commentary, are those of the presenter and do not necessarily reflect the views or policies of Accuray Incorporated or its subsidiaries. No official endorsement by Accuray Incorporated or any of its subsidiaries of any vendor, products or services contained in this presentation is intended or should be inferred.

An honorarium is provided by Accuray for this presentation.

Medical Advice Disclaimer

Accuray Incorporated as a medical device manufacturer cannot and does not recommend specific treatment approaches. Individual results may vary.

Safety Statement

Most side effects of radiotherapy, including radiotherapy delivered with Accuray systems, are mild and temporary, often involving fatigue, nausea, and skin irritation. Side effects can be severe, however, leading to pain, alterations in normal body functions (for example, urinary or salivary function), deterioration of quality of life, permanent injury and even death. Side effects can occur during or shortly after radiation treatment or in the months and years following radiation. The nature and severity of side effects depend on many factors, including the size and location of the treated tumor, the treatment technique (for example, the radiation dose), the patient's general medical condition, to name a few. For more details about the side effects of your radiation therapy, and if treatment with an Accuray product is right for you, ask your doctor.

Pinnacle Level of Advancement and True Ingenious Quality



Best Treat

Machine

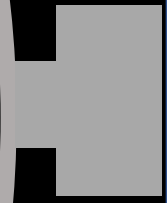
Son or Daughter

Base

ACCURAY

ASRO
AMERICAN SOCIETY FOR
ONCOLOGY

Subject of interest!



This is the main reason why you are here!

You came to the best professional conference in the presently known universe;
You came to the best vendor booth at the ASTRO show;
You came to this presentation for the most effective and cunning technology
available, right now, real time, to the world...

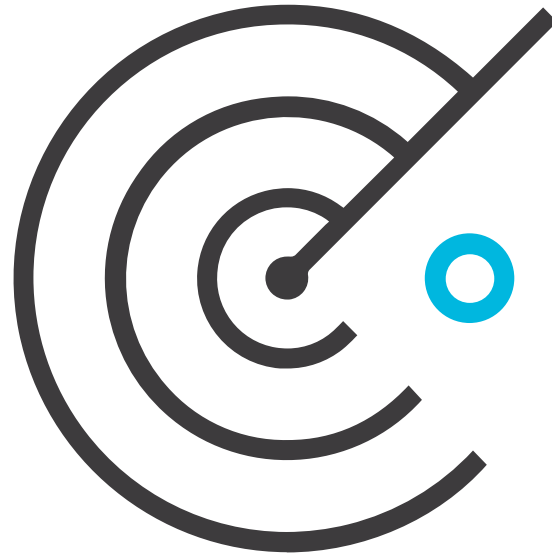
Synchrony[®]

What does it really do? What makes
it the best in the treatment
modality?

Accuray Synchrony[®] system performs:



**TRACKING OF
TARGET**

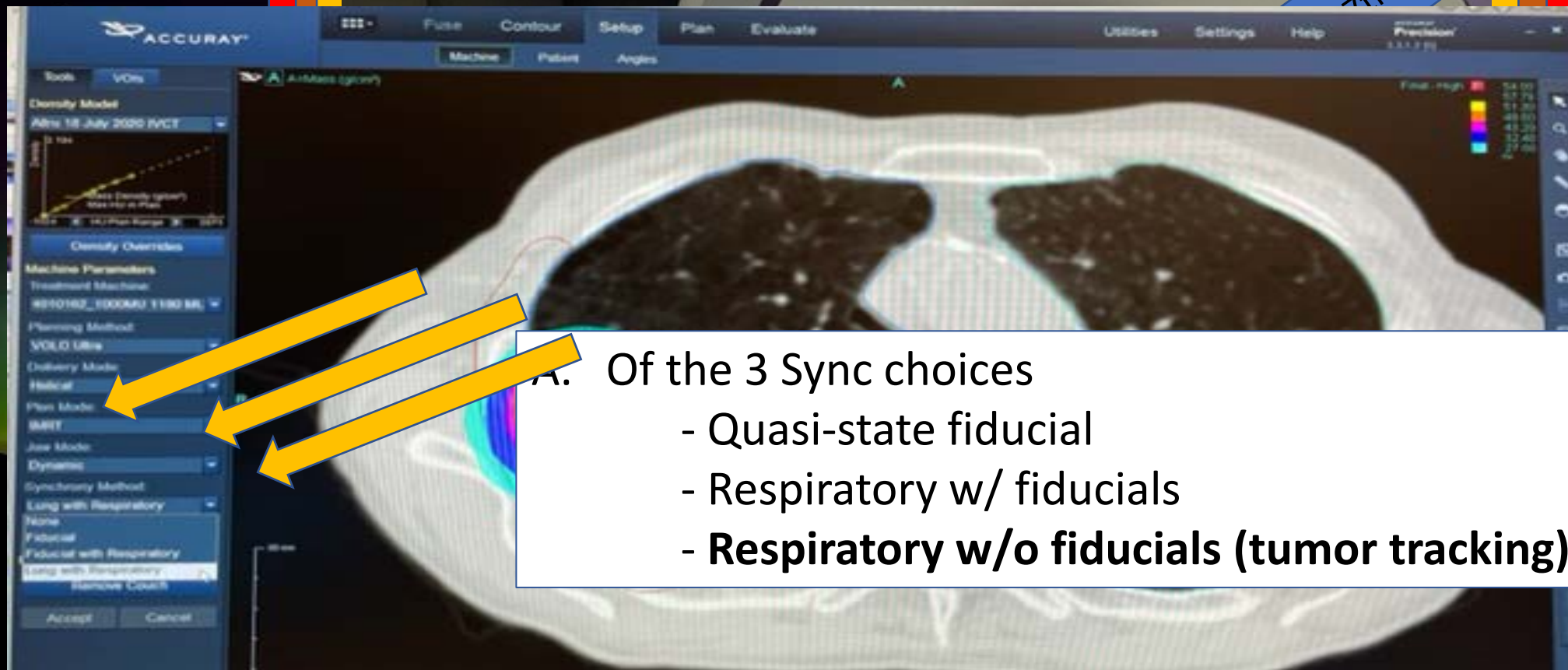


**DETECTION
OF MOTION**



**REAL-TIME CORRECTION
AND ADAPTION**

What does this actually connote?



A. Of the 3 Sync choices

- Quasi-state fiducial
- Respiratory w/ fiducials
- **Respiratory w/o fiducials (tumor tracking)**

are
he

why is this so great.



Optimization Properties

Resolution: Medium

Optimize: [Play] [Trash]

Auto Final Dose

Snapshots

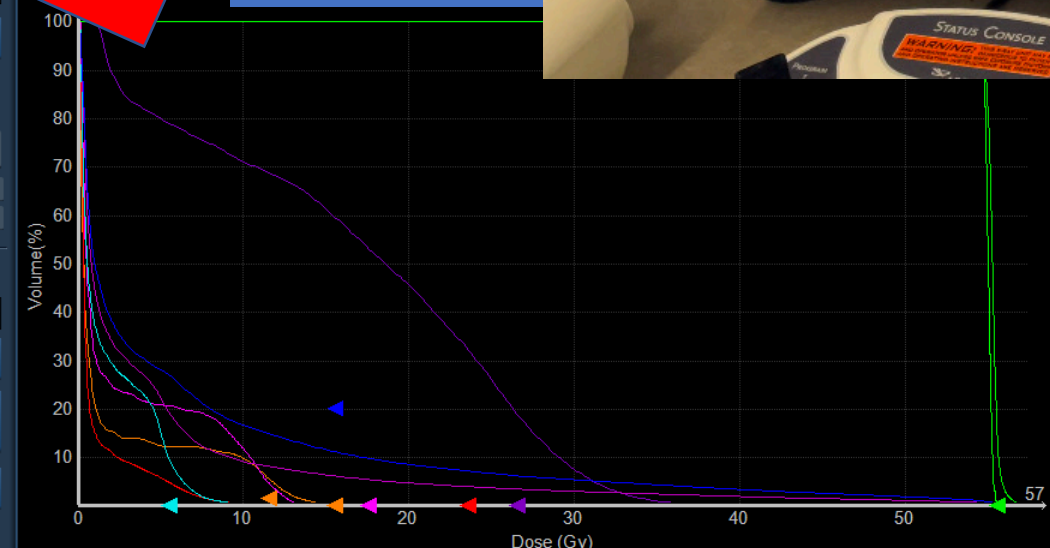
Final Dose Resolution: High

Clear Final Dose

Show Optimization Results

Rescale Dose

Images/
and adjust



Name	Min (Gy)	Mean (Gy)	Max (Gy)	CI	nCI	HI	Coverage (%)
CTV 54 Gy	54.57	55.00	55.48	18.51	18.51	1.06	100.00
Chest wall	0.95	16.98	40.40	n/a	n/a	n/a	n/a
Cord	0.05	1.80	16.16	n/a	n/a	n/a	n/a
Esophagus	0.16	2.59	13.52	n/a	n/a	n/a	n/a
Heart	0.10	0.92	12.42	n/a	n/a	n/a	n/a
Lt Lung	0.08	1.84	10.47	n/a	n/a	n/a	n/a
Lungs	0.08	3.97	57.35	n/a	n/a	n/a	n/a
Rt Lung	0.12	5.77	57.35	n/a	n/a	n/a	n/a
PTV 54 Gy 3 Fxn	53.40	55.25	57.35	1.47	1.48	1.06	99.59
External	0.01	1.48	57.35	n/a	n/a	n/a	n/a

Other Linac solution:

PTV



More Dose
More Dose
More Dose

MIP
Maximum Intensity Projections

But with Accuray Synchrony® way.....

Great. Nice. But what's this meaning for a team at a center?

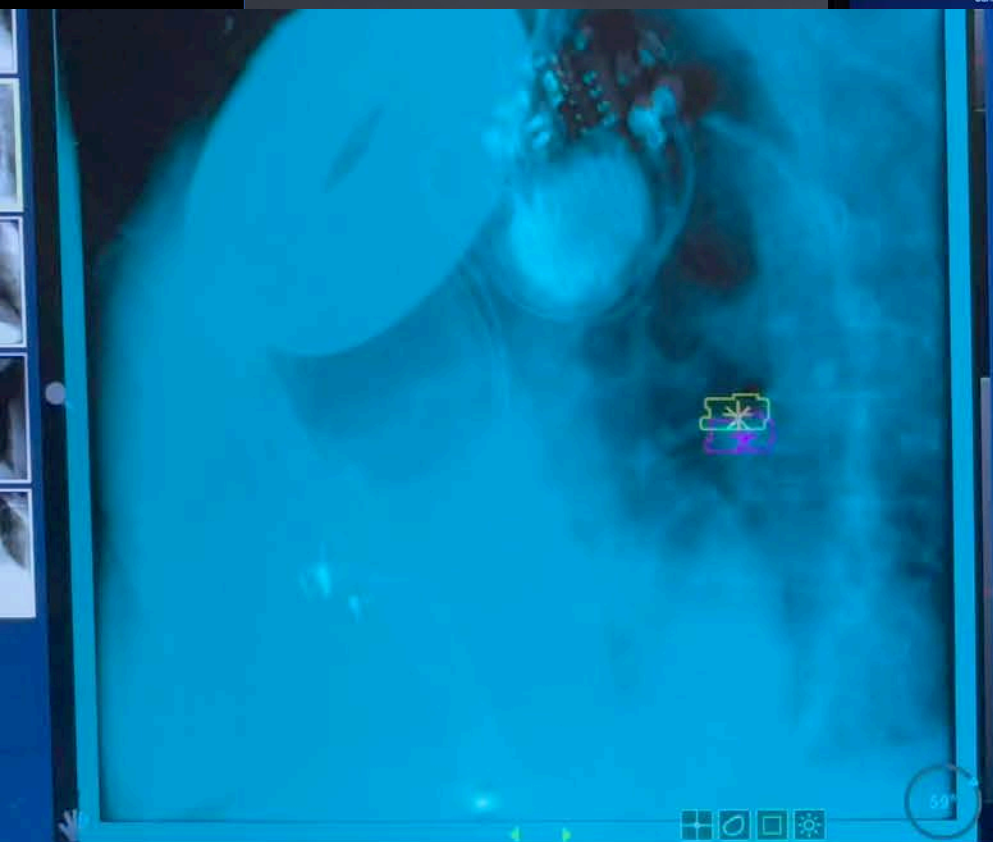


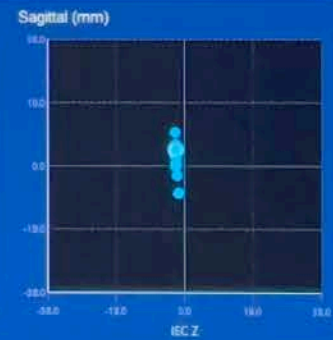
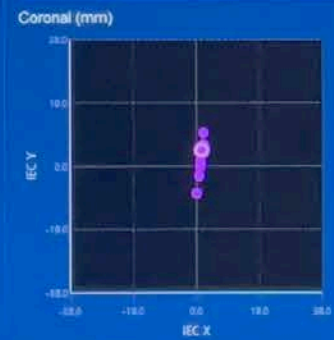
Image Data (mm)

Angle	Δ
<input checked="" type="checkbox"/> 59.0°	
<input checked="" type="checkbox"/> 144.0°	
<input checked="" type="checkbox"/> 223.0°	
<input checked="" type="checkbox"/> 325.0°	
<input checked="" type="checkbox"/> 20.0°	
<input checked="" type="checkbox"/> 59.0°	0.9
<input checked="" type="checkbox"/> 144.0°	2.6
<input checked="" type="checkbox"/> 223.0°	
<input checked="" type="checkbox"/> 325.0°	
<input checked="" type="checkbox"/> 20.0°	
<input checked="" type="checkbox"/> 59.0°	
<input checked="" type="checkbox"/> 144.0°	
<input checked="" type="checkbox"/> 223.0°	2.0
<input checked="" type="checkbox"/> 325.0°	0.0
<input checked="" type="checkbox"/> 20.0°	
<input checked="" type="checkbox"/> 59.0°	0.6

Parameters (mm)	Calculated	Threshold
Potential Diff	2.6	7.0
Measured Δ	0.6	7.0
Target Offset	9.9	30.0

Model Age: 4.2 sec

Tools Comet Graphs



Elapsed: 279.1
Remaining: 402.1

Couch Position (millimeters)

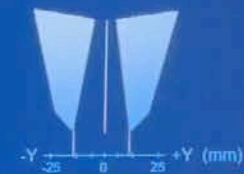
IEC X lateral	IEC Y longitudinal	IEC Z vertical
-4.6	1135.6	274.6

Monitor Chamber (Dose Monitor Units)

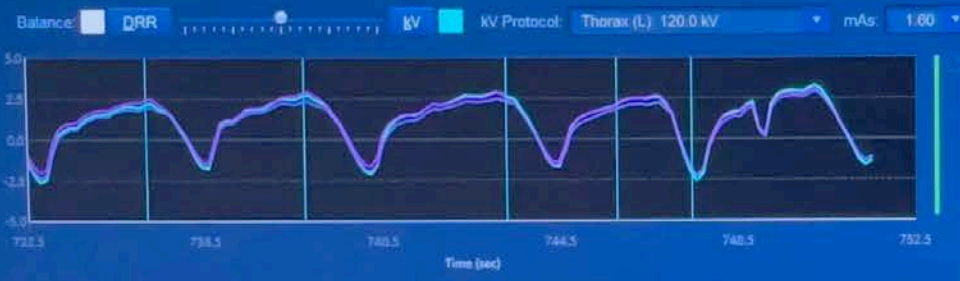
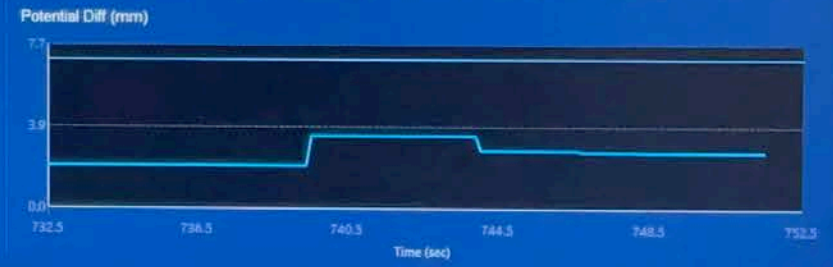
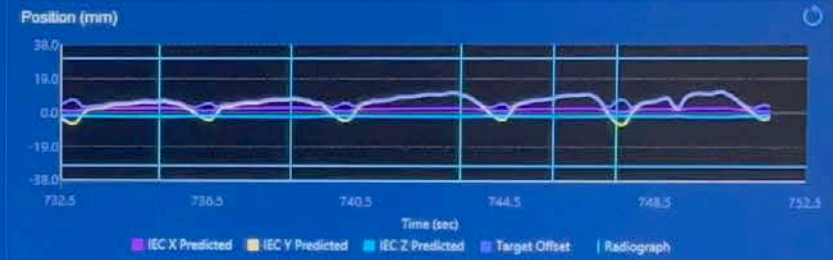
	Cumulative (mu)	Expected (mu)	Rate (mu/min)
C1	4490	11354	965
C2	4495	11354	966

Gantry Angle: 58.6°
Roll Correction: -0.1°
Gantry Correction: +0.1°

Mode: Dynamic
Front: -14.1 mm
Back: 11.0 mm
Width: 25.1 mm



Position Graphs | Difference Graphs | Image History | Procedures | Auxiliary Data



Treatment in progress...

Machine is ready | Monday, 03 Oct 2022 12:27:10

Sun Dog, February 2019 GF, ND

Vanq

Rad Onc Team

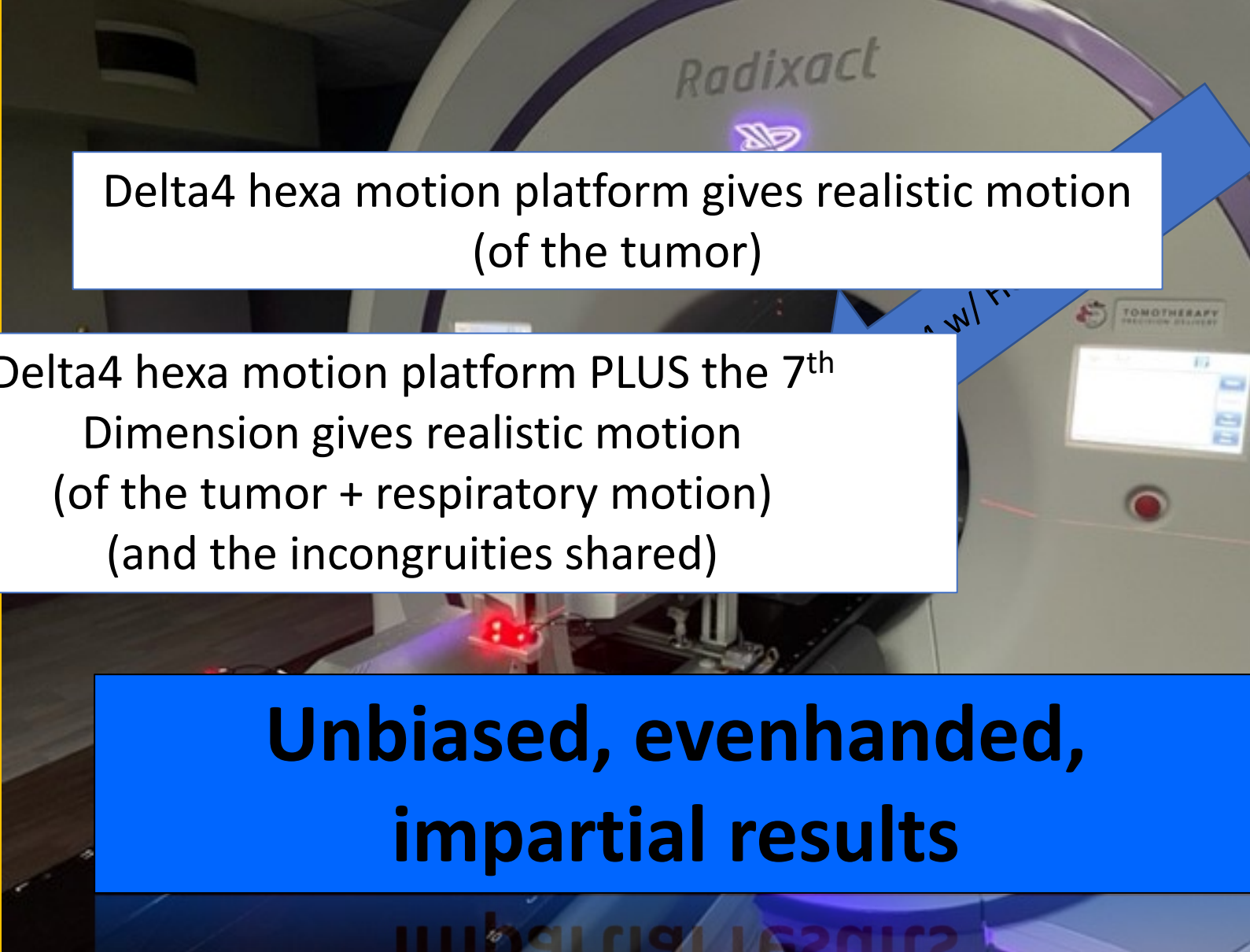
Sword of Truth

Cloud of verisimilitude of its ability

Radixact Synchrony

Sun Dog, January 2020, GF ND

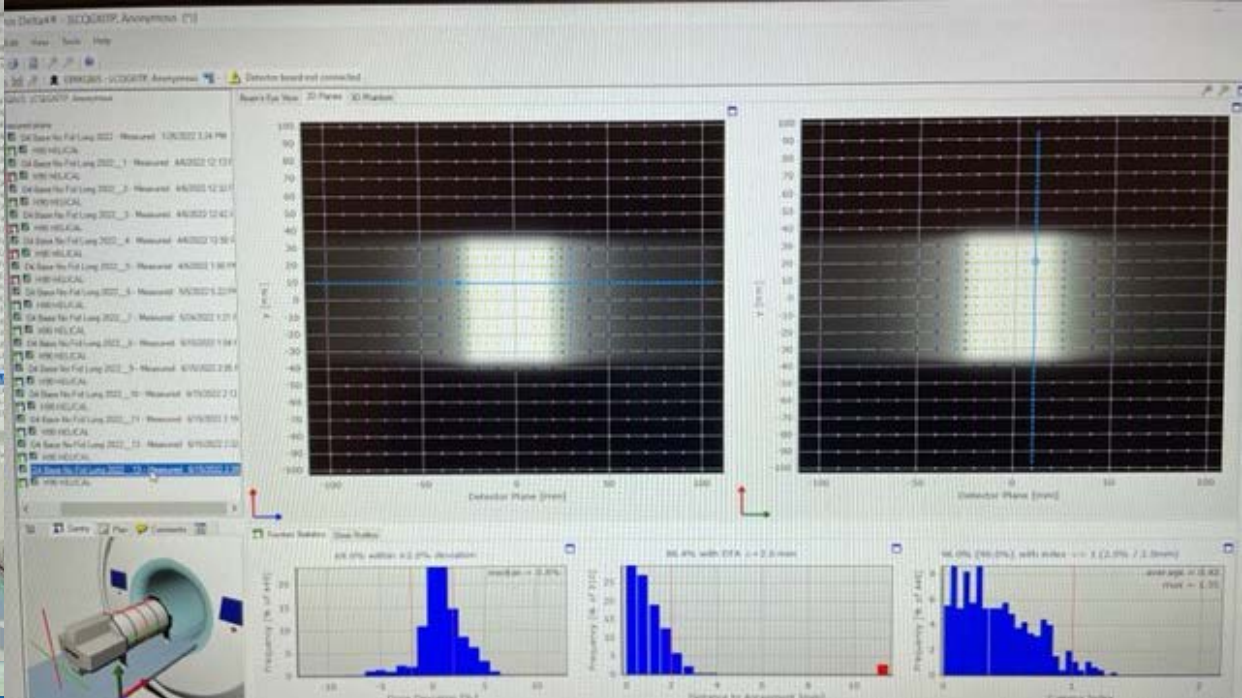
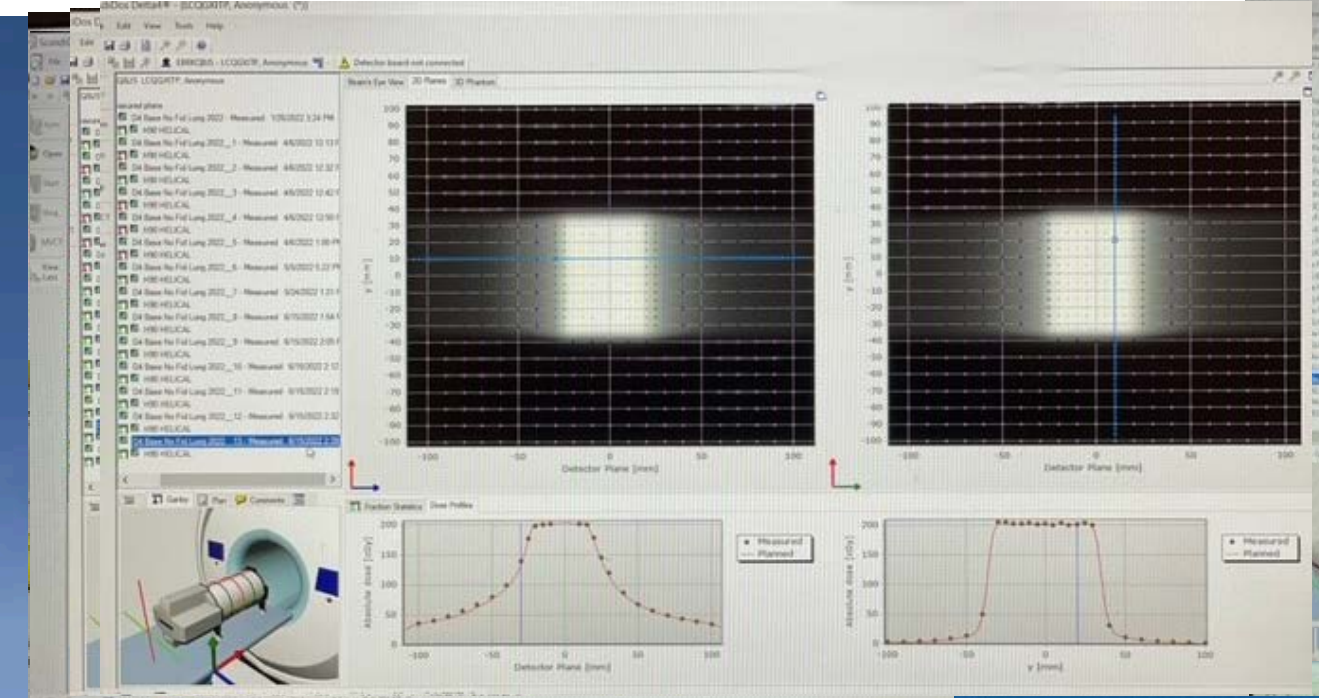


A photograph of a Radixact Tomotherapy machine, a type of radiation therapy equipment. The machine is white with a large circular gantry. The word "Radixact" is visible on the gantry. A monitor is mounted on the machine. The machine is set in a clinical environment. The image is framed with a red border and a yellow inner border.

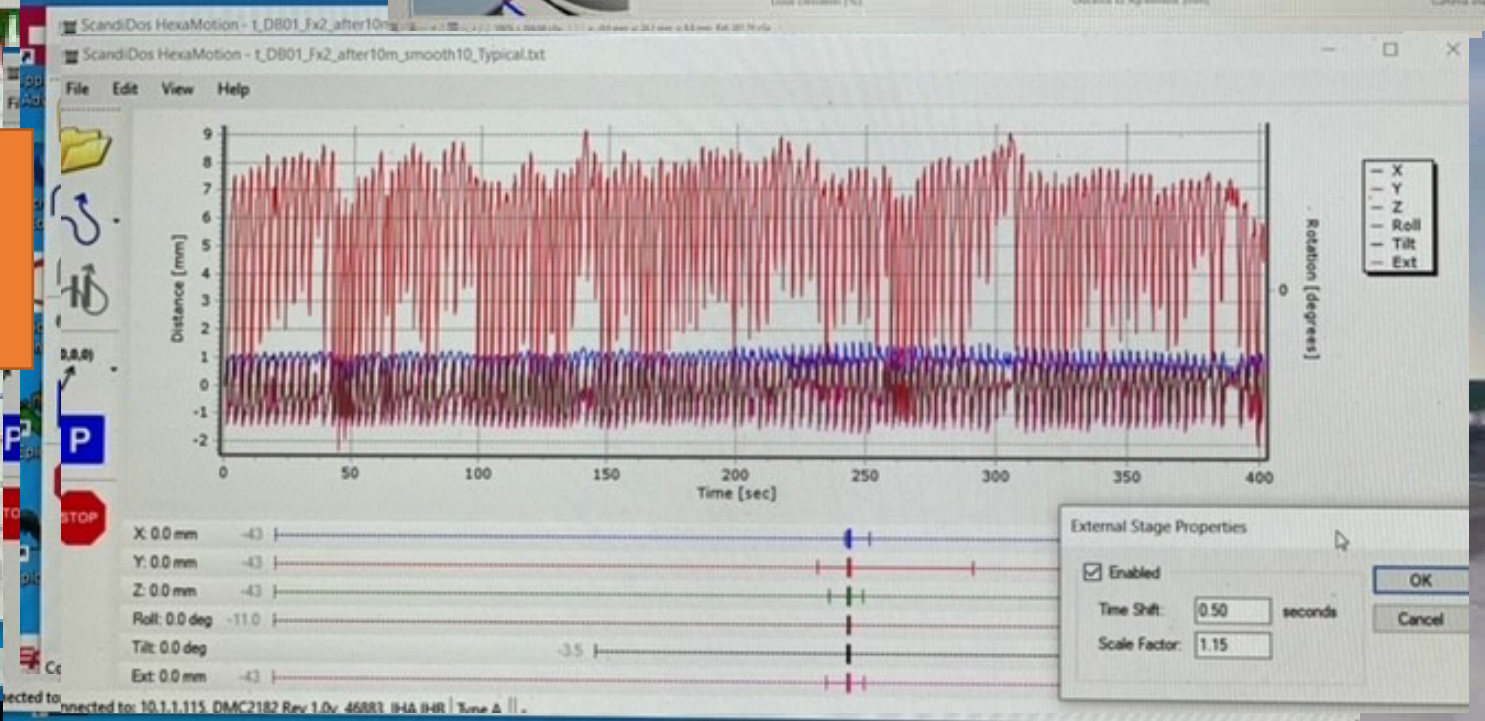
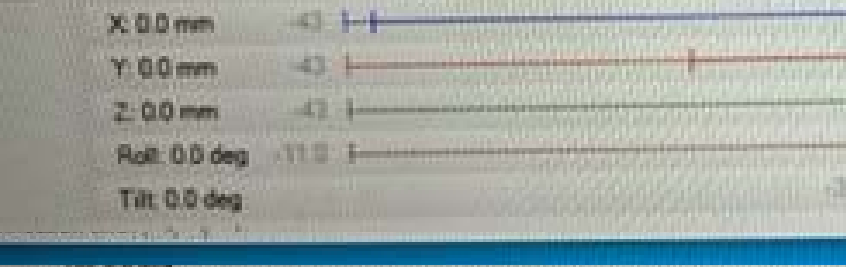
Delta4 hexa motion platform gives realistic motion
(of the tumor)

Delta4 hexa motion platform PLUS the 7th
Dimension gives realistic motion
(of the tumor + respiratory motion)
(and the incongruities shared)

**Unbiased, evenhanded,
impartial results**



$\Gamma = 96.8\%; 2\%/2\text{mm}$
 (7th D attached $\Delta t = 0.5\text{ s}$, $\Delta\text{Scale} = 1.15$,
 7th D Δ position)



Short Summer Summation of Clear Cool Conclusion:

Stone Cold

Accuray Radixact® tumor tracking, fiducial-less Synchrony® is...

Phenomenal

But like Steve...

In fact, not only... nfully .



Warren, MN Setting Sun 27 Sept 2022



Some subjects must be respected:

1. Patient eligible for Sync?:
 - i. Consistent shaking?
 - ii. Breathing able to be controlled?
 - iii. Physical size/position on table (LEDs)?
 - iv. Time (scheduled time should include “what if” time?)
 - v. Fractions scheduled over reasonable time period (as tumors can shrink!)
 - vi. Manner of CT data acquisition
 - vii. Kv Protocols
 - viii. Model reset/couch movement
 - ix. Other things withal – ask me afterwards

You have my sincere appreciation for the presence and attention you have given this presentation of Synchrony[®], the newest tool to help the most important person to someone somewhere...the tool that will make you a hero...



A creek next to the Quentin Burdick Memorial Hospital, November 25, 2020

Thanks and credits to:
Altru Health Systems
Accuray
Scandidos
SuDu Consulting
Rostam for "Gwan"
Beck for "Wow"
David Bowie for "Heroes"

Questions?

