



AAPM Task Group 275

-- The Survey --

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MAYO CLINIC
Radiation Oncology

Objectives:

- Review:
 - I. Goal and Structure of TG 275 Survey.
 - II. Survey Aggregate data and Global results.
 - III. Initial results of Survey vs. FMEA cross-reference.

TG 275 Members



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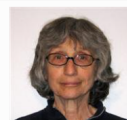
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Survey

AAPM Supporting Staff



Woodward, Michael E

1/1/1997 AAPM Staff - Deputy Executive Director - (ex officio, nonvoting)



Xing, Yan-Hong

1/1/2016 AAPM Staff - Database Administrator -

TG 275 Goal

- Develop recommendations for:
 - Initial Plan Check
 - On-Treatment Chart Check
 - End-of-Treatment Chart Check

How?



Survey

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FMEA Evaluation

Treatment Modalities

External Beam



Photons

Protons

Brachytherapy

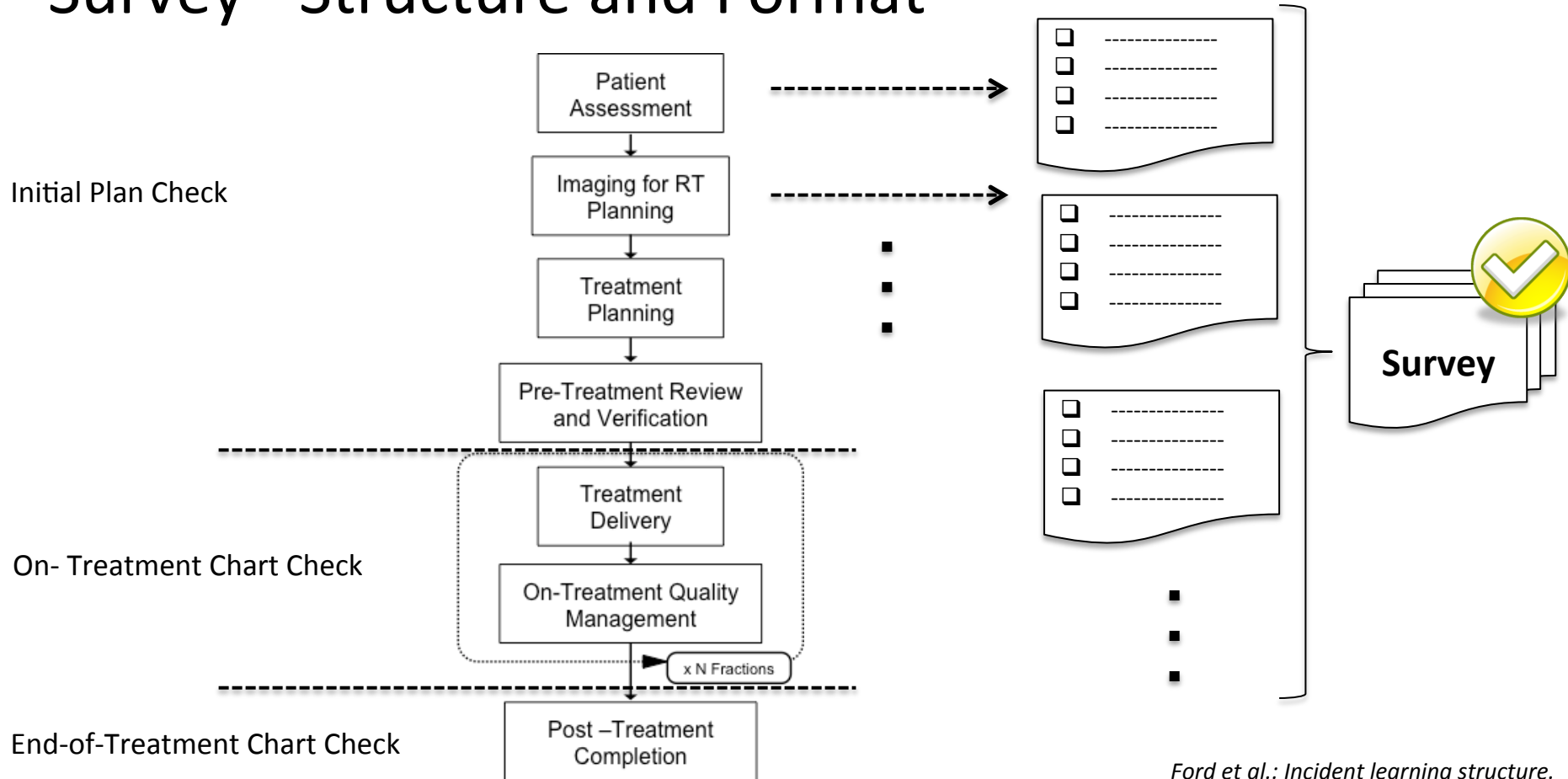
**AAPM - Brachytherapy
Subcommittee**

Regina K. Fulkerson, PhD

Wayne M. Butler, PhD

In progress ...

Survey - Structure and Format



Incentives for Participation

- Opportunity to fulfill Part 2 MOC for Self-Assessment CE (up to 15 hours of SA-CE) and Part 4 MOC requirement for PQI Activity.
- Enrollement in a raffle for a complementary meeting registration.
- Opportunity to compare your specific response to the global average of all participants.
- Promote survey using social media (e.g. LinkedIn, AAPM bulletin boards)

Survey Content and Validation

- **55** Demographics Questions:
 - 18 -> General
 - 20 -> Initial Plan Check
 - 17 -> On-Treatment Chart Check
- **256** Items Check or Review:
 - 151 -> Initial Plan Check
 - 38 -> Proton Specific Initial Plan Check
 - 52 -> On-Treatment Chart Check
 - 15 -> End-of-Treatment Chart Check



15 – 30 minutes

Data Collection

- Surveying Period:
 - Open for 7 Weeks (From Feb 10th to March 31st 2016)
- The tool that was used for the Survey:
 - QuestionPro

AAPM Supporting Staff



Woodward, Michael E



1/1/1997 AAPM Staff - *Deputy Executive Director - (ex officio, nonvoting)*



Xing, Yan-Hong



1/1/2016 AAPM Staff - *Database Administrator -*

1526 Total Participants:

- **1310** from US,
- **60** from Canada,
- **107** from 35 other counties,
- **49** were left blank for this question




AAPM Community

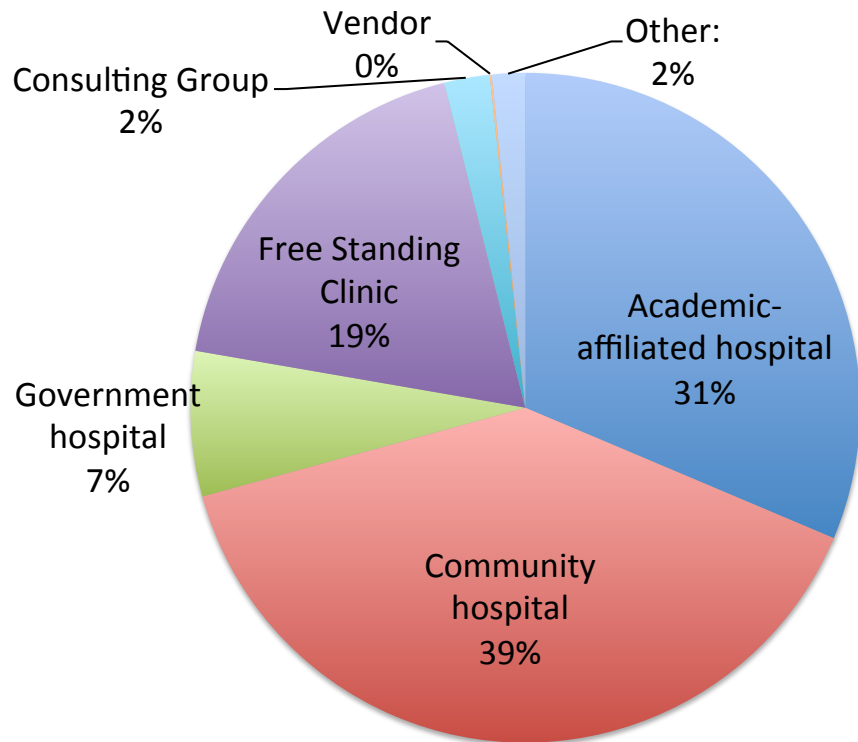


**Thank
you!!**

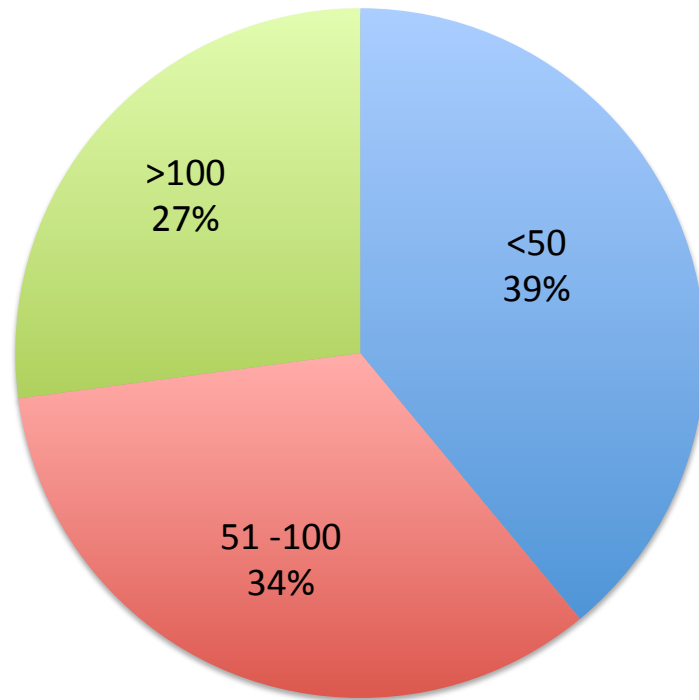
TG 275 - Response Rate

- Expected response rates for this type of survey:
 - 10 to 40%
- Our Survey:
 - AAPM membership in Radiotherapy: ~4500 members
 - Response Rate: ~ **33%** 

Type of Institution



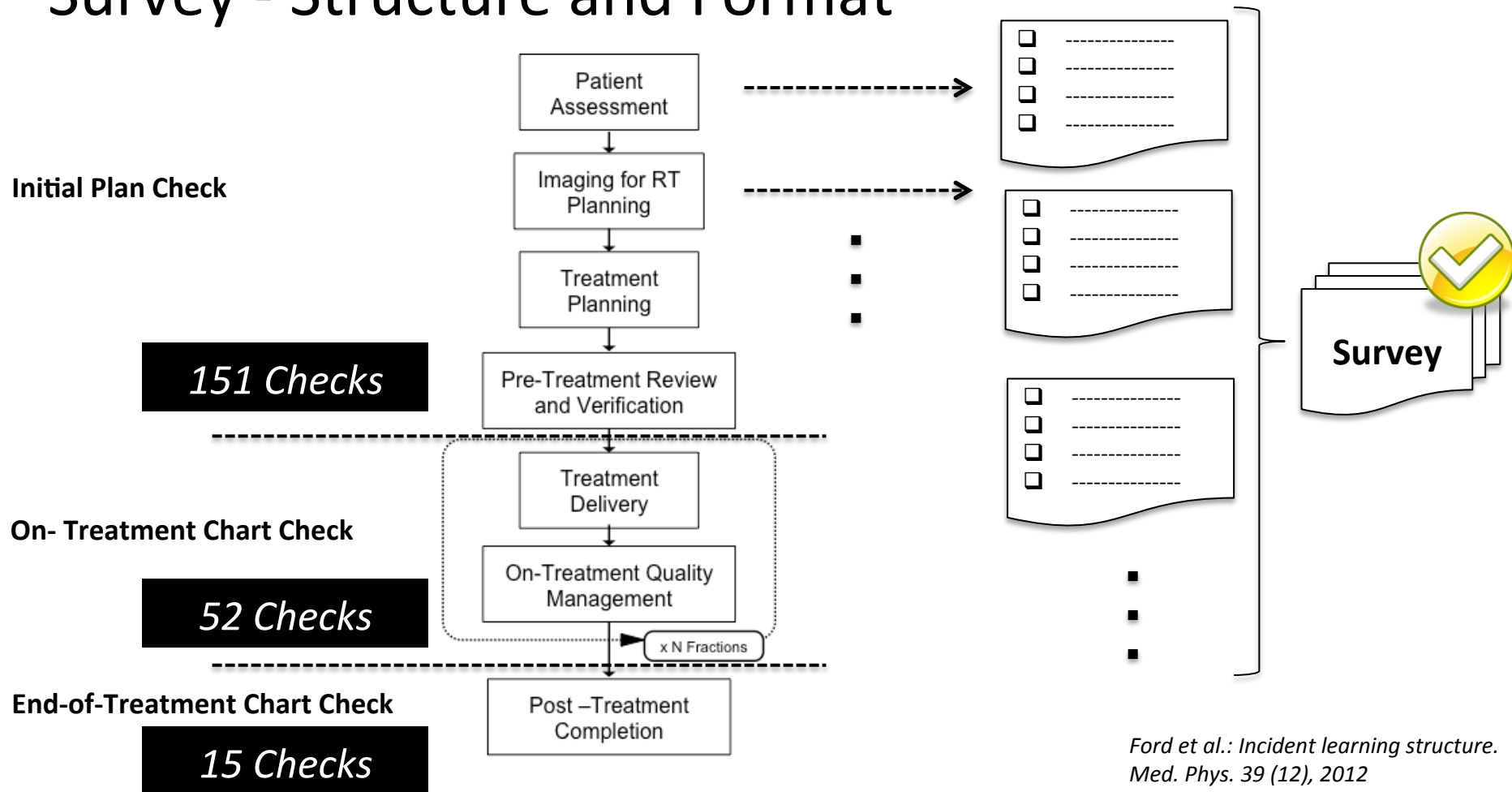
Average No. of Patients Treated Daily (Practice Size)



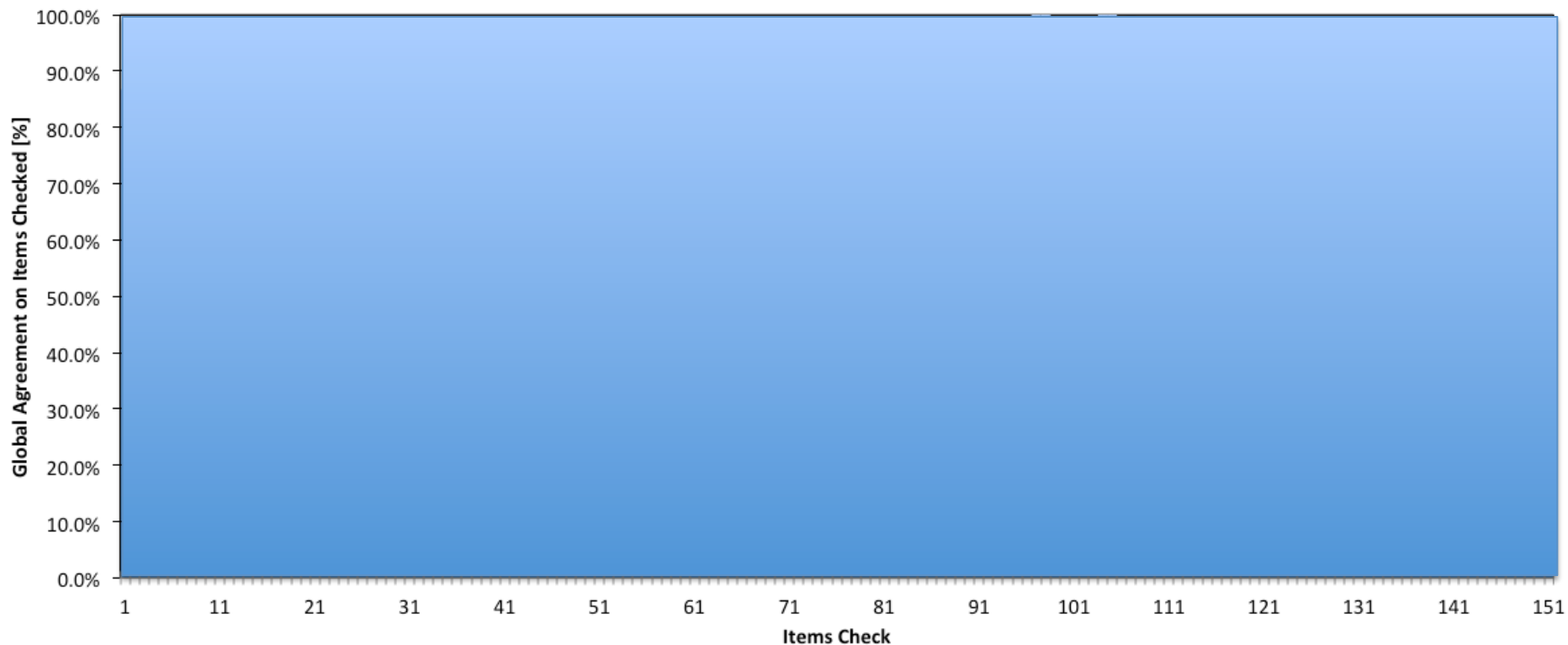
Panoramic View of the Results of the Survey



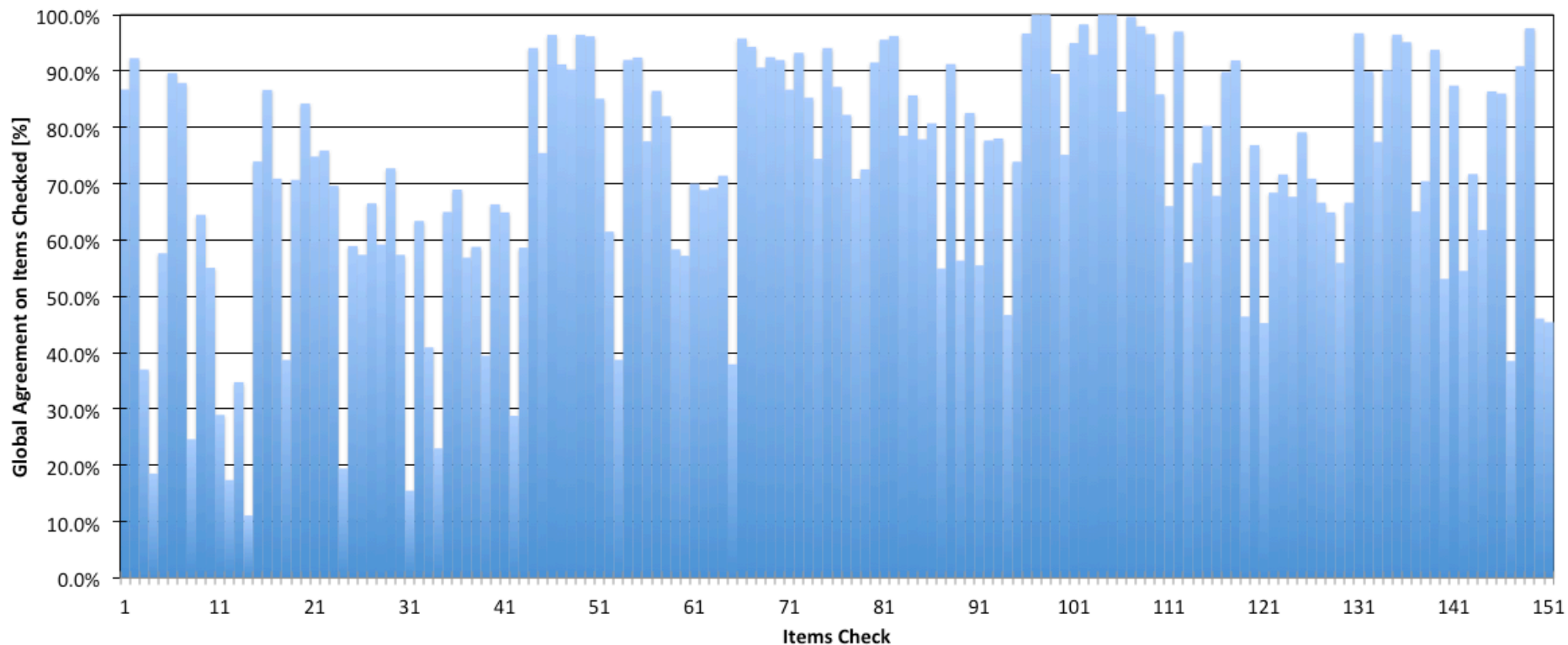
Survey - Structure and Format



Items Checked during Initial Plan Check Process

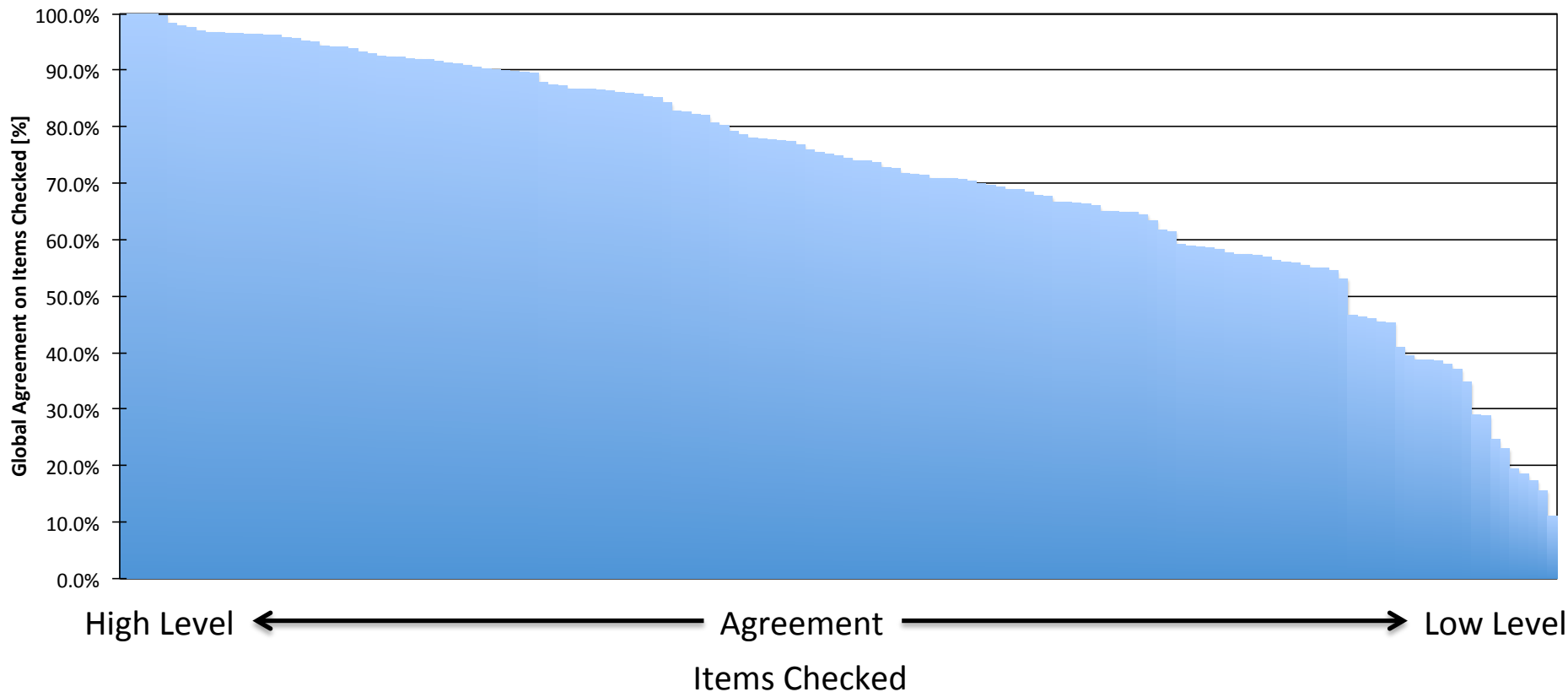


Items Checked during Initial Plan Check Process



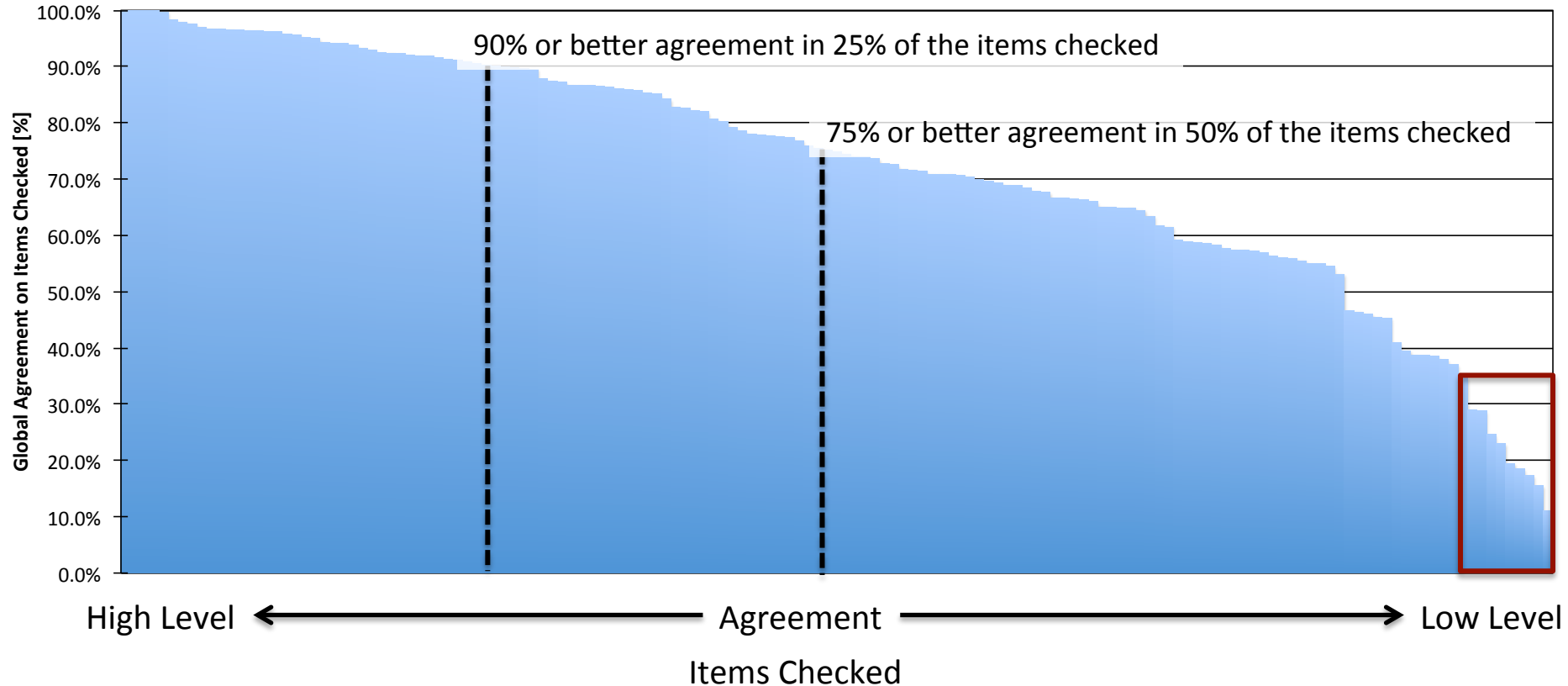
Items Checked during Initial Plan Check Process Sorted By Level of Agreement

N = 151



Items Checked during Initial Plan Check Process Sorted By Level of Agreement

N = 151



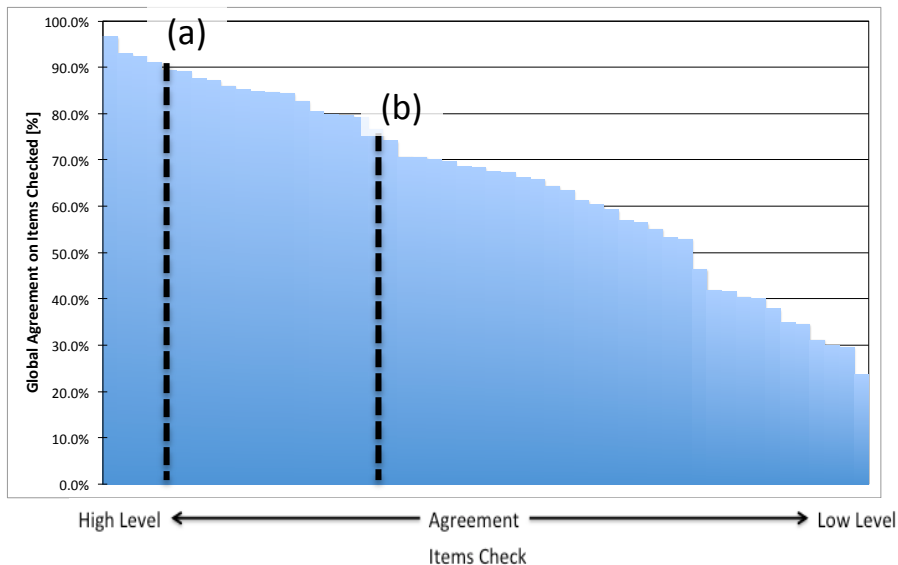
Items Checked during Initial Plan Check with Lowest Level of Agreement



➤ Low Level

Clinical Process	Item Check	Level of Agreement
Patient Assessment	Diagnosis definition including imaging and outside records	37%
Patient Assessment	Consult Note	35%
Patient Assessment	Patient Consent	29%
Patient Assessment	Utilization of other treatment modalities (i.e. chemo, surgery)	25%
Patient Assessment	Pathology Report	19%
Patient Assessment	Peer review of treatment decision (e.g. tumor board, peer-to-peer evaluation, etc.)	17%
Patient Assessment	Insurance Approval	11%
Simulation	CT Scanner technique (e.g. kV, filter, etc.)	19%
Simulation	Transfer of images to archiving system	15%
Simulation - Motion Management	Gating parameters	23%
Treatment Planning- Contouring	Approval of contours by MD	29%

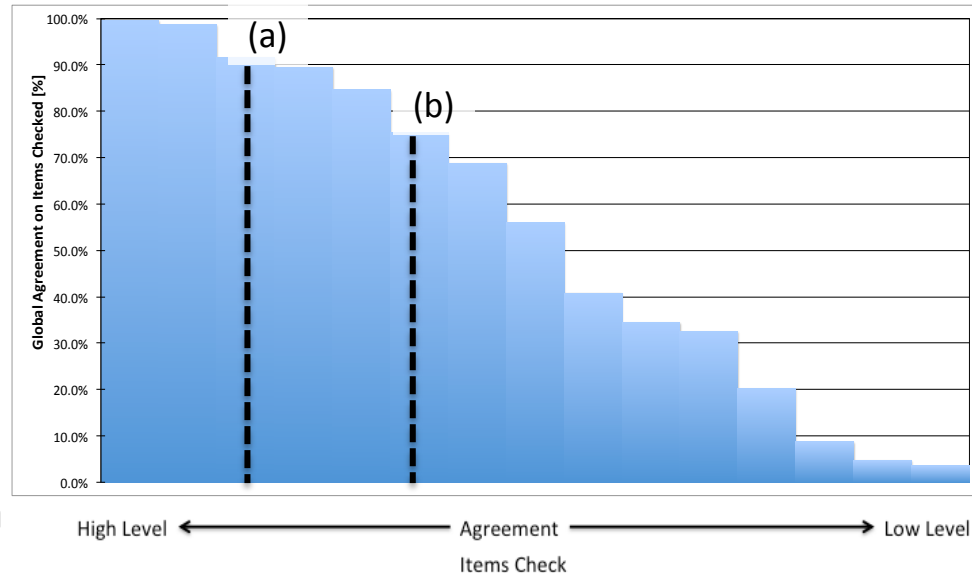
On-Treatment Chart Check



Number of Items Checked: **52**

- (a) 90% or better agreement in 8% of the items checked
- (b) 75% or better agreement in 37% of the items checked

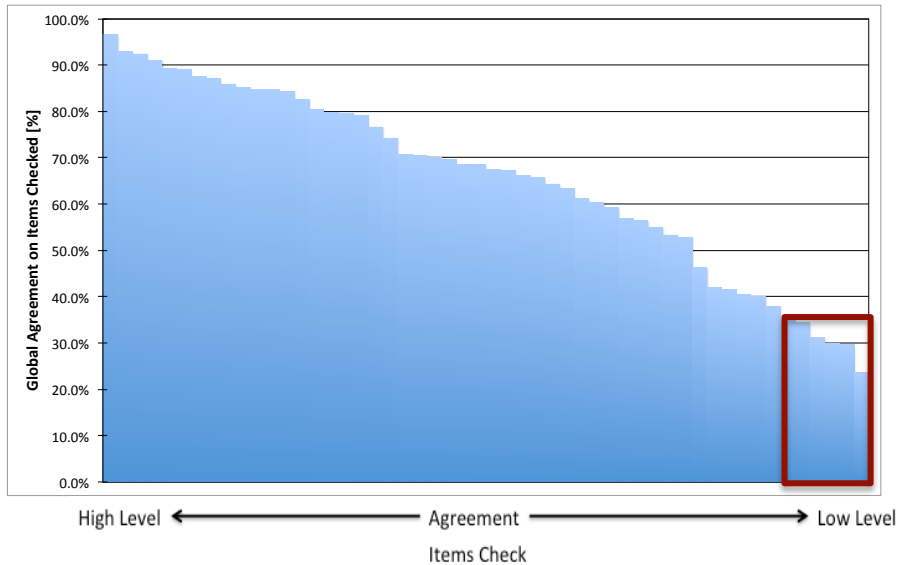
End-of-Treatment Chart Check



Number of Items Checked: **15**

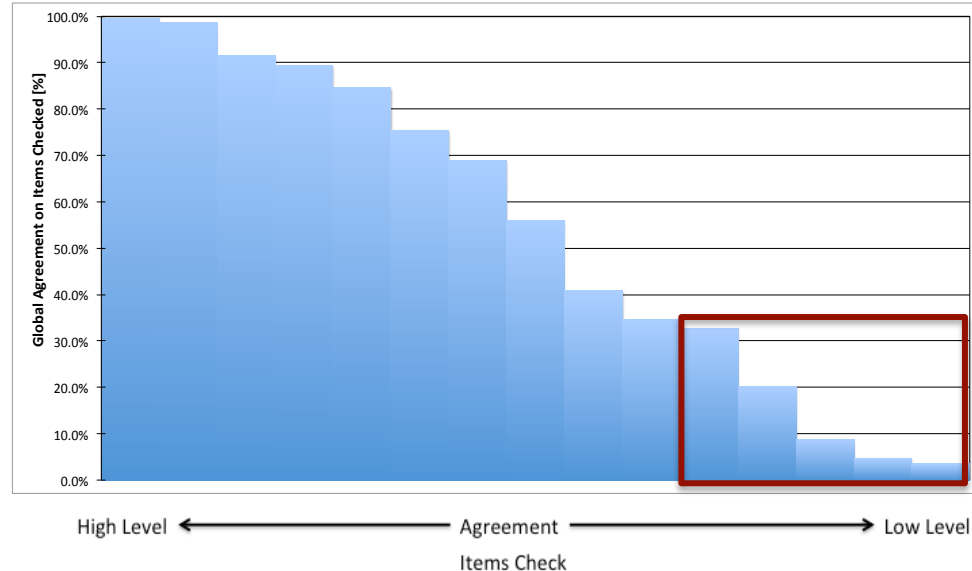
- (a) 90% or better agreement in 20% of the items checked
- (b) 75% or better agreement in 40% of the items checked

On-Treatment Chart Check



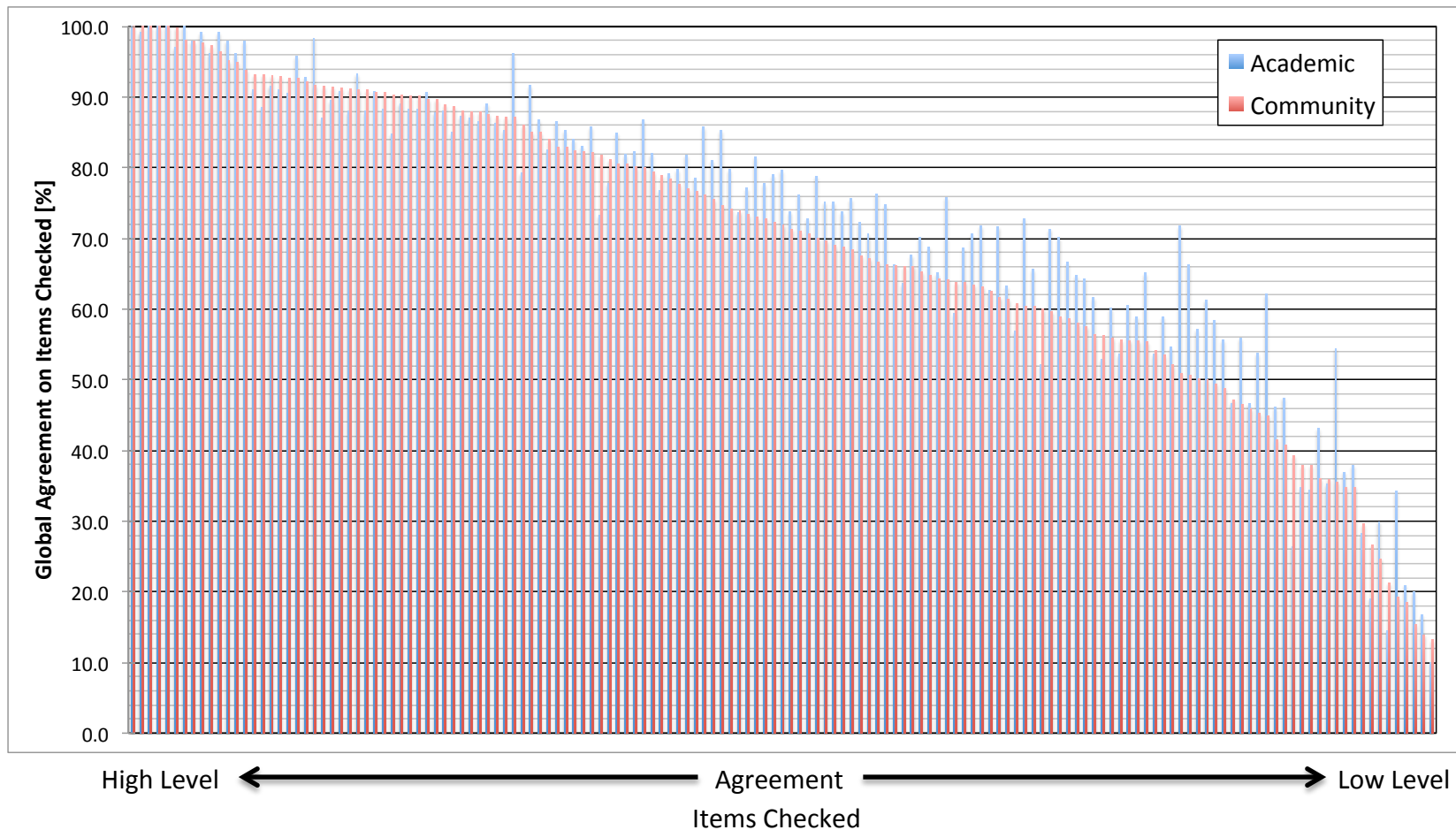
Clinical Process	Item Check	Level of Agreement
Treatment Progression	RTT Tasks Completed	31%
Treatment Progression	MD Tasks Completed	30%
Documentation and Communication	Daily QA	34%
Documentation and Communication	Time-Out Performed	30%
Documentation and Communication	Case Presented at Chart Rounds	24%

End-of-Treatment Chart Check

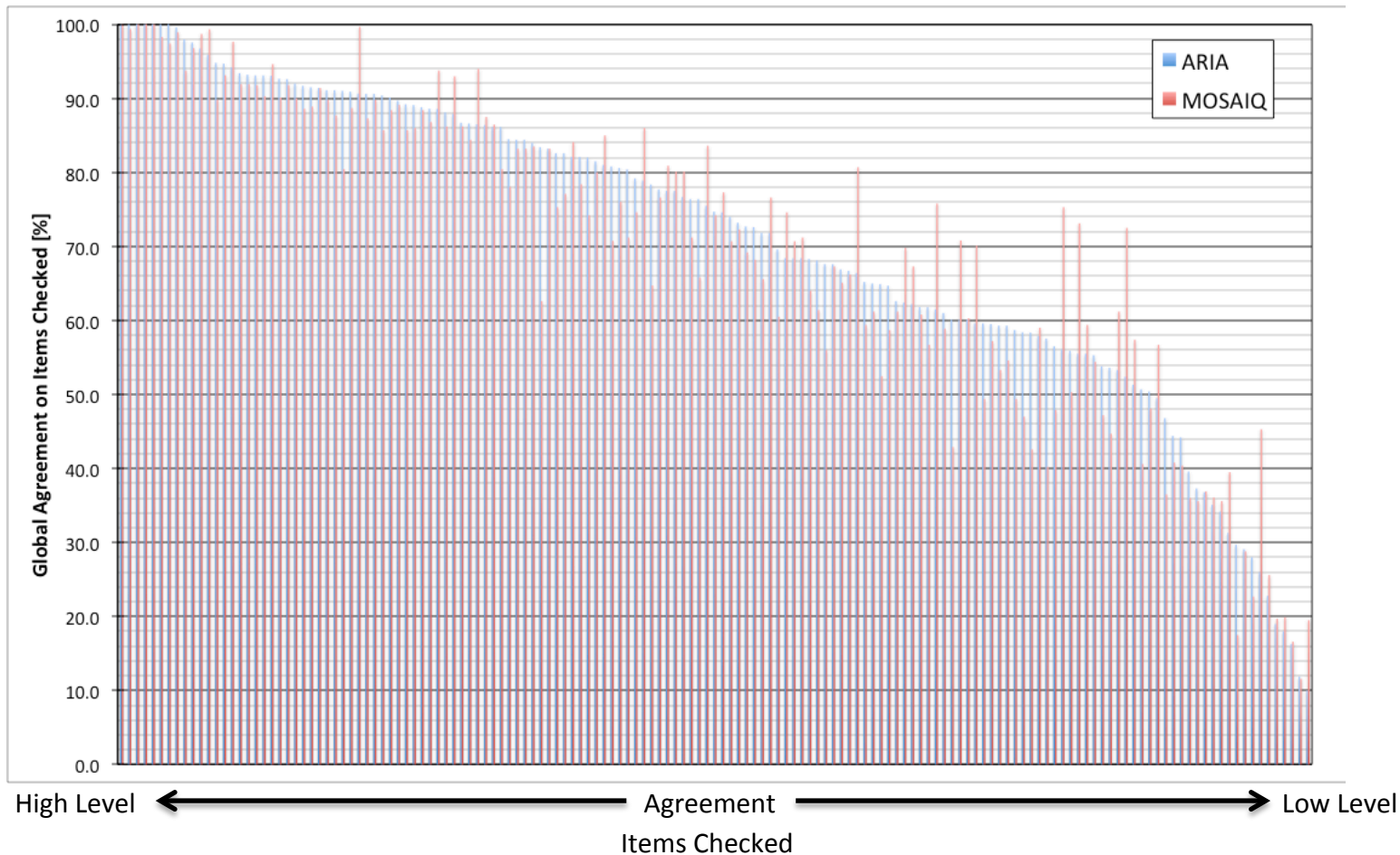


Clinical Process	Item Check	Level of Agreement
Documentation and Communication	All RTT Tasks Completed	33%
Documentation and Communication	Data/Imaging Archived	20%
Documentation and Communication	Follow up Imaging for treatment evaluation	9%
Documentation and Communication	Follow up Patient Management Visit	5%
Documentation and Communication	Follow up Lab Work	4%

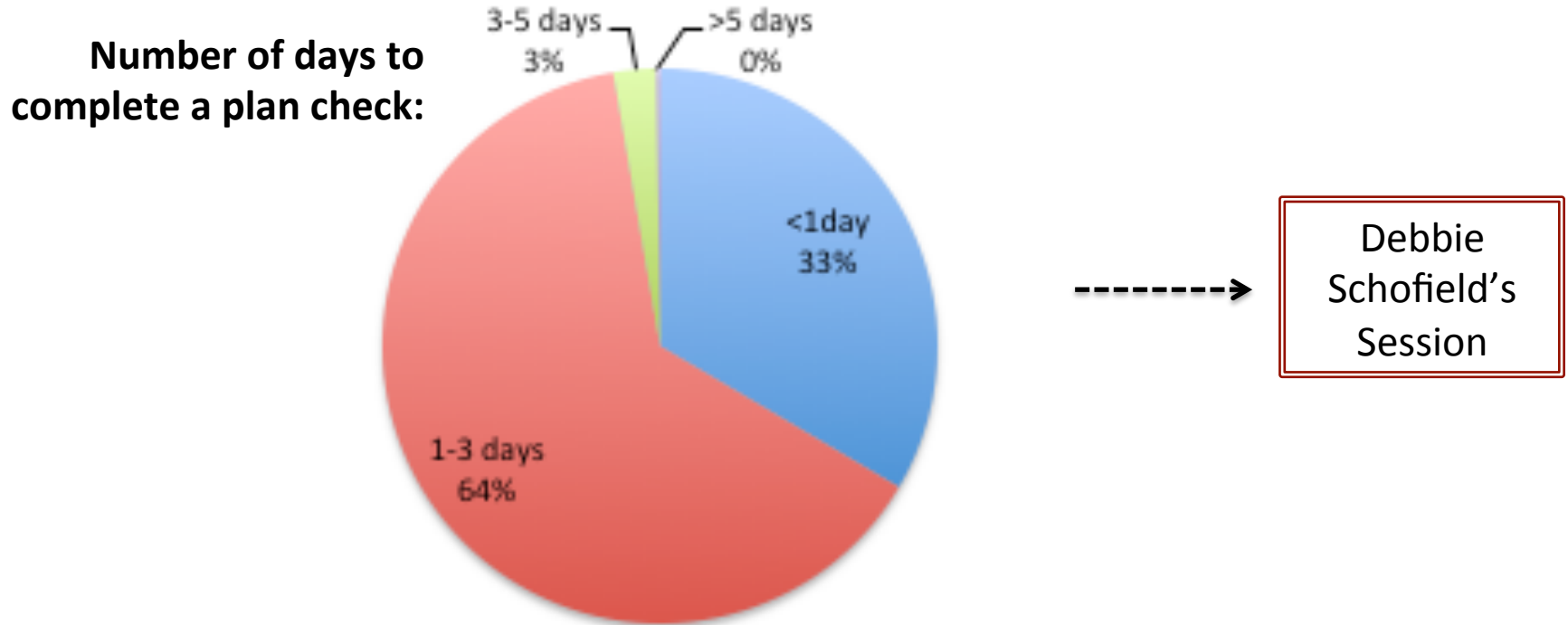
Academic vs. Community Centers in USA



Items Checked depending on the RadOnc Information System



Are initial plan check practices statistical significance different depending on specific demographics?



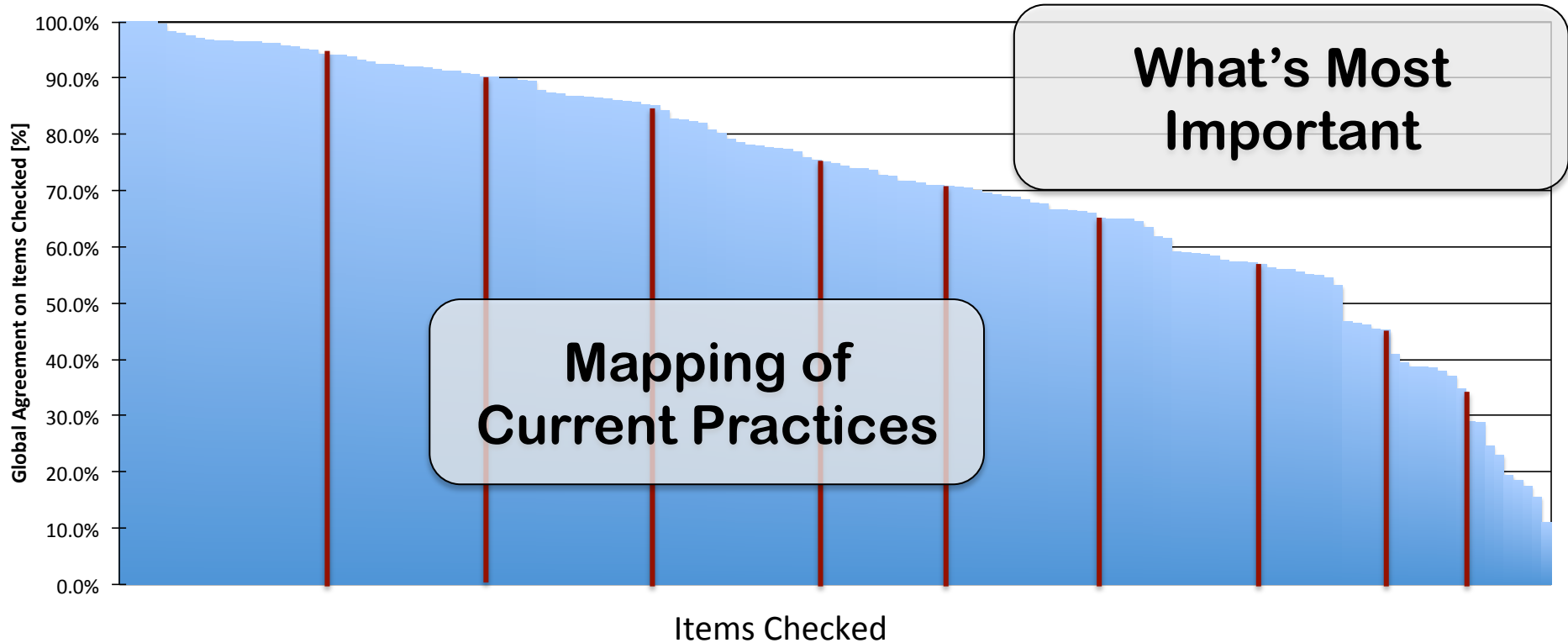
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Next Milestone

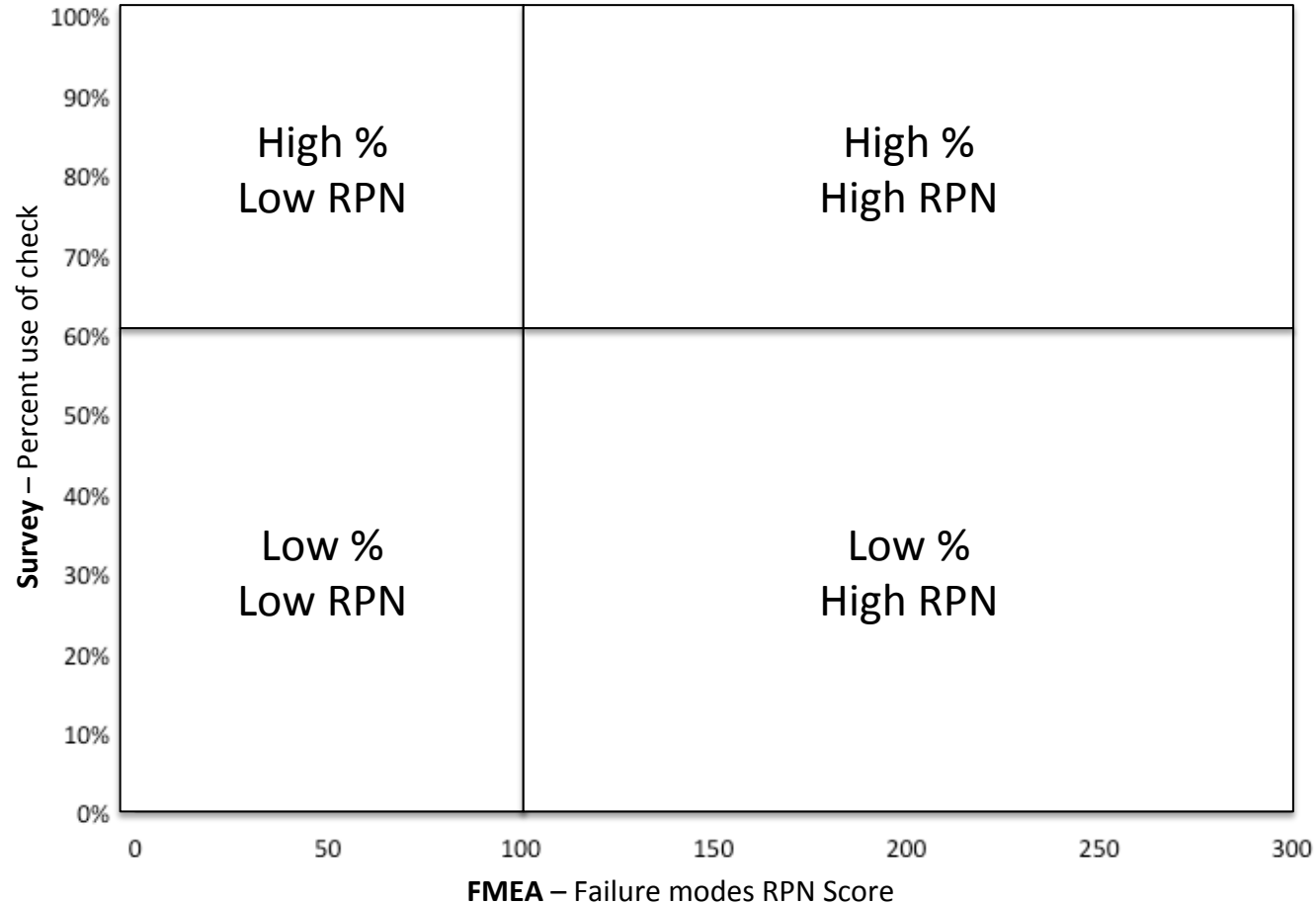
Survey

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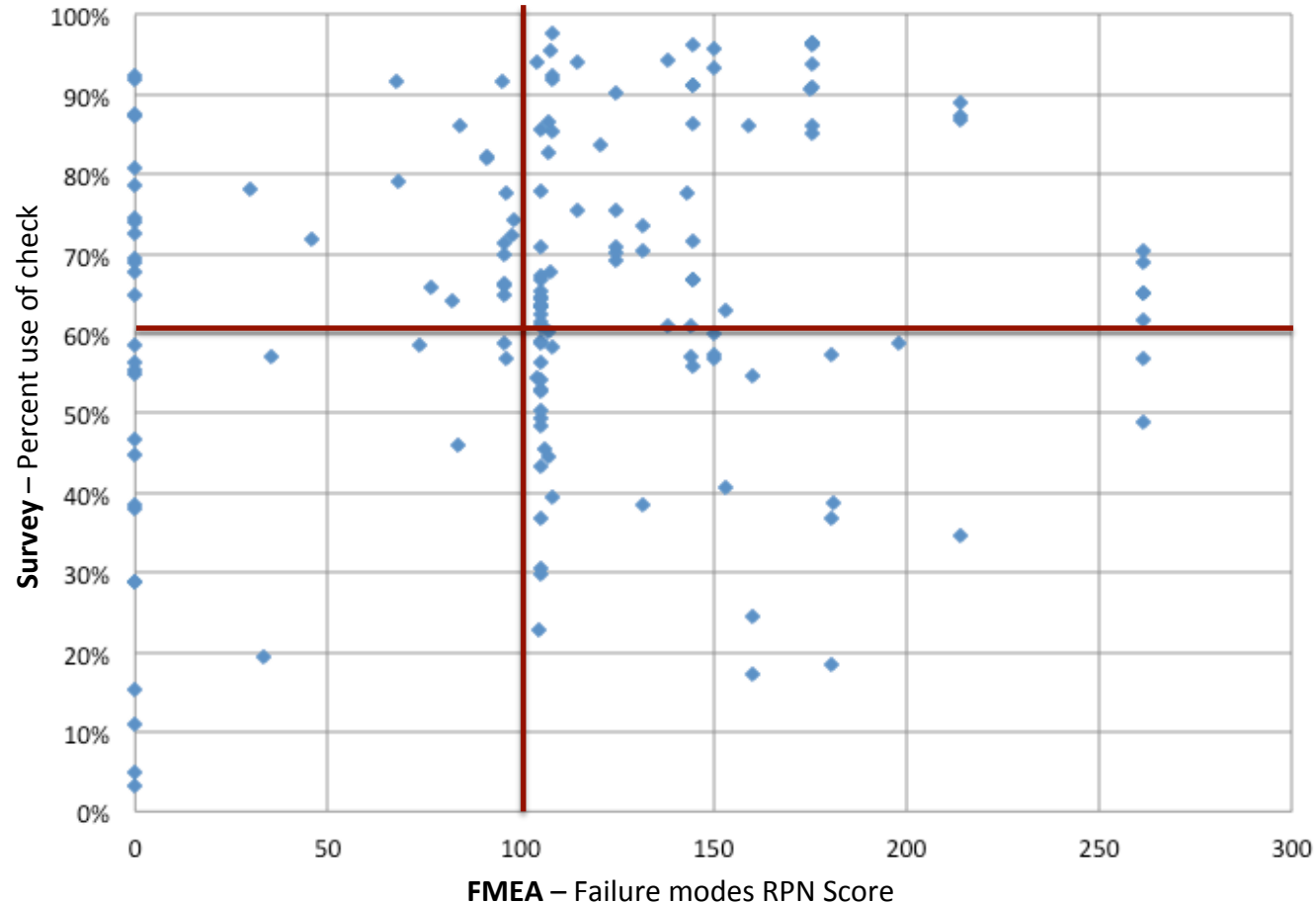
FMEA Evaluation



TG 275 FMEA vs. Survey cross-reference



TG 275 FMEA vs. Survey cross-reference



AAPM Community



Thank you!!