ALLIANCE 1-SLIDE BREAKOUT SUMMARY SLIDE: **ML MODEL** SESSION: **1**

Key elements, next steps, timeline

1. Collaboration between 3 proposals: open annotation platform, open post-market surveillance platform, competitions to drive innovation
2. Use of real world images and sequential data
3. Clarity on regulatory pathway
4. APIs for data sharing
5. Integrated database with outcomes data
6. Imaging informatics fellow
7. Mock submission for locked model vs continuous learning

Pros for Patient, Clinical, R&D, and regulatory

1. Cloud based interoperability
2. Honest broker
3. Real world/"high quality" datasets
4. Increase quality of submission reviews
5. Scaling the resources for submission review

Collaboration between 3 proposals. Imaging informatics fellowship. Mock submission.

Concerns for patients, clinical, R&D, and regulatory

1. Security faced with de-identification
2. Common ontologies
3. Whole slide scanner variabilities
4. Owning/sharing of data
5. Fragmented approach for multiple platforms

Implications and efforts

1. Centralization vs. federated model
2. Public-private partnerships

Key elements, next steps, timeline

1. Standard annotations format
2. Quality of annotations
3. Coordinate system
4. Standardized vocabulary
5. Codification of pathology
6. Various use cases
7. Human machine interaction paradigm
8. Data quality
9. Control slides for ML

Pros for Patient, Clinical, R&D, and regulatory

1. Consistency and interoperability of model testing, and performance evaluation
2. Provide a streamlined process
3. Granularity for review submission
4. Industry standard

Standard annotation format. Human machine study.

Concerns for patients, clinical, R&D, and regulatory

1. Loss of proprietary advantage
2. Quality assurance of annotations
3. Discussion on reuse of datasets
4. Potential for false positives

Implications and efforts

1. Potential regulatory compliance audit for submissions
2. Technical discussion
3. Index & query versus direct data sharing
4. Potential for DICOM working group
5. Study looking at human machine interactions