**Date**: 8/16/2017

**Attendees**: Helen, Asiyah, Chul Ahn, Karen, Yage and Zheng

**Discussed**:

1. Welcome Chul, lead mathematician joining our research project
2. Basic text mining method to convert free text to vectors for further data analyses (0\_FDA\_BI\_20170816\_Weekly\_Report\_Asiyah\_comments.docx).
3. Word frequency analysis based on keywords list and all BI records’ text content (2\_foidev\_column\_full\_list.xlsx)
4. Generate word cloud from MDR text (i.e. from the foitext column) (4\_Word\_Cloud\_Image.png)

**Action items**:

Yage & Zheng:

1. To write up detailed processes of natural language processing (including text cleaning methods), add the process to take care of “no” or “not” negation terms to the Method.
2. To append the extracted/converted vectors to each original MDR record in one single table so that we can do quality control (i.e. manual checking of the text mining results), e.g. export 200 records of ALCL cases for this QC step
3. To update the word frequency
4. To conduct signal detection methods (see Methods Asiyah sent you on 8/16)
5. Generate a word cloud from social media <http://healingbreastimplantillness.com/breast-implant-symptoms/>
6. Develop statistical analyses model, e.g. logistic regression for association analysis.
7. To update team next semester’s available schedule

Helen & Asiyah:

1. Update keywords list including but not limited to biomarkers, special words for manually check (e.g. confirm(ed), suspect(ed))

-team discussed with medical officer and Asiyah will send you the list.

1. Send signal detection methods to Yage & Zheng [done, sent Pharmacovigilance method, ppt file]
2. In order to train the logistic regression model, we need a list of confirmed ALCL report numbers [Asiyah will pick min# of records to send you]

[Meeting adjourned.]