Name: Divya Bhakta Feng. Liu et al. "New Frontiers in Biomedical Science and Engineering during 2014-2015." Bio-Medical Materials & Source # Bibliography Engineering, vol. 26, 2015 Supplement1, pp. (MLA or APA) S3-S7. EBSCOhost, doi:10.3233/BME-151283. 10 pts Biomedical Imaging: Paper 1 studies the SPECT (sing-proton Annotation: emission computed tomography) image reconstruction for a small animal based on a voxel-driven algorithm. The results indicate (Describe ALL info. that might be important for that the VD model can handle a longer object with manageable your paper. Explain to the storage space. Paper 2 discusses the importance of CT radiation reader and/or summarize dose, especially for those who are receiving radiation therapy. what might be found in Paper 3 studies the motor network in hemiparetic stroke patient. **Biomechanical Engineering:** The papers present a numerical this source) solution of the flow and heat transfer outside an expanding/ 35 pts contracting porous cylinder. Biosensors and bio-signal Processing: Paper 1 addresses the demands for improving the computation time of CT image reconstruction. By applying GPU calculation processing to CT reconstruction with ART algorithm, the time efficiency increased by a factor of 20. Paper 2 analyses the quality of sleep based off of calculated Sample Entropy. The results showed that Sample Entropy could be used to discriminate between different sleep stages. **Antioxidant Therapy and Natural Bioactives:** These bioactive compounds can possibly prevent/treat important diseases. Paper 1 discusses the protective mechanisms of Vitamin E on kidney injuries. Paper 3 discusses the cardioprotective actions of H2S and the NaHS treatment in diabetes. Paper 4 explores different strategies that may lead to new active ingredients useful for the prevention of osteoporosis (porous bone disease) "The authors have dealt with this issue using CTDI value, which is Potential Quotes: generally used as index for CT dose calculation, and this (Are there any significant approach can be easily applied to clinical field to evaluate the quotes you can use or patient dose in linac-integrated cone beam CT due to its paraphrase from this characteristics of simplicity and reproducibility." (2) source?) "The authors have dealt with this issue using CTDI value, which is

15 pts

generally used as index for CT dose calculation, and this approach can be easily applied to clinical field to evaluate the patient dose in linac-integrated cone beam CT due to its characteristics of simplicity and reproducibility." (3)

Assessment: (Analyze and explain why this source is credible) 15 pts	This source is credible because it includes research papers written by biomedical researchers and practitioners hoping to exchange the most recent advances and future challenges in the engineering field at the International Conference on Biomedical Engineering and Biotechnology.
Reflection: (How will you potentially use it?) 25 pts	I will use this academic journal to explore the advancements of biomedical engineering and the latest technology. With this new information I will be able to understand the effects of the technology/machinery used in Aziyo. In addition, I could use specific examples and experiments discussed to provide evidence in regards to technological advancements in the medical/engineering field.