In the Name of GOD

REGISTRY PROPOSAL: (1-2 PAGES excluding references)

A. Title of Registry

Establishment of the Database Registry for Knee Arthroplasty

B. Brief Intro to Registry –Literature Review (1-2 paragraphs)

Joint replacement has demonstrated remarkable effectiveness as a life changing technology for patients with advanced hip and knee arthritis or joint damage. The technology and surgical expertise to perform these operations has become accessible virtually everywhere in the world. This registry plan was designed to evaluate the costs, possible complications, and rate of revisions as well as finding the most effective techniques, risk factors associated with poor results, indications for revision surgeries, and also demographic evaluation of patients undergoing joint replacement surgery in Iran.

Sweden has a long history of national registries, which are a gold mine for research. It is also one of few countries with unique personal identity numbers, which make it possible to link data from different registries to a specific individual. Other active registry plans are available on other Scandinavian countries and the US.

C. Registry Objectives (what is it you are specifically looking at, trying to reach?)

The registries contain individualized data about medical interventions, procedures and outcomes. They are integrated into clinical workflows and have the capacity to generate data in real time.

1- Demographic information and past medical history
2- Laboratory Results (Before and after the Surgery)
3- Hospitalization information (admit until discharge)
4- General issues, Anesthesia factors, and surgery items
5- Postoperative care factors in ward
6- Detail of prosthesis
7- Follow up information
8- Functional knee status before and after the surgery and improvement level (KSS)

D. Registry Design (participants, data collection, statistical analysis plan, etc.)

Participants: All patients referred to Akhtar hospital for total knee surgery.

Data collection:

1- Interview
2- Data extraction from electronic health records

Statistical analysis plan: descriptive statistics (chart, table and graph) for describing the prevalence of factors and suitable method and tests to compare variables or finding relationship. Statistical analysis will be done with the latest version of "*R*" and "*SPSS*".

E. Timeline for your Registry project (project deadlines set by you and your mentor)

Items		month											
		1	2	3	4	5	6	7	8	9	10	11	12
Proposal	1	*											
Checklist	1	*	*										
Software	3			*	*	*							
Data collecting (Pilot)	3	*	*	*									
Data collecting	9				*	*	*	*	*	*	*	*	*
Annual report	1												*

F. Who will provide support and feedback and how often will this occur?

Mr. Azad Aliahmadi is in charge of giving progress reports (Percentage of work completed, and currently in progress or probable problems or unexpected things) twice a year.