بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قال تعالى

وَقَضَى رَبُّكَ أَلَّا تَعْبُدُوا إِلَّا إِيَّاهُ وَبِالْوَالِـدَيْنِ إِحْسَـانًا إِمَّا يَبْلُغَنَّ عِنْدَكَ الْكِبَرَ أَحَدُهُمَا أَوْ كِلَاهُمَـا فَلَا تَقُـلْ لَهُمَا أُفٍّ وَلَا تَنْهَرْهُمَا وَقُلْ لَهُمَا قَوْلًا كَرِيمًـا (23) وَاخْفِضْ لَهُمَـا جَنَـاحَ الـذُّلِّ مِـنَ الرَّحْمَـةِ وَقُـلْ رَبِّ ارْحَمْهُمَا كَمَا رَبَّيَانِي صَغِيرًا (24

صدق الله العظيم

سورة الإسراء الآيات 23-24

Appendix 1

Questionnaire

جامعة السودان للعلوم والتكنولوجيا

كلية علوم المختبرات الطبية

قسم أمراض الدم ومبحث المناعه الدمويه

Name.....الاسم

Age.....العمر

Sex.....الجنس

Do you have diabetes? هل عندك
مرض السكرى؟

Yes ☐ NO ☐

What type of diabetes ? اي نوع من
مرض السكرى.؟

Type IDM ☐ type II DM ☐ GDM ☐

Diabetic treatment اي
علاجات تستخدمها

Oral hypoglycemic drug OHG ☐ insulin ☐

OHG and insulin ☐ others.....

Do you smoke?
هل تدخن

Yes ☐ NO ☐

Do you use other medication and specify هل تستخدم اي
علاجات اخرى ؟ واذكرها

.....
.

Result:-

Fibrinogen.....mg\dl

Factor VIII.....%

Appendix II

بسم الله الرحمن الرحيم

□□□□□□ □□□□□□□□ □□□□□□□ □□□□□□□ □□□□□□□□□□□□□

كلية الدراسات العليا برنامج ماجستير-مختبرات طبية

تخصص علم الدم

براءة اخلا قية

..... الاسم
..

سوف يتم اخد عينة من الدم (5مل) من الوريد بوسطة حـ قنة طعن ودلك بعد مسح منط قة اخد العينة بواسطة المطهر. كل الادوات المستخدمة لاخد العينة معـ قمة ومتبع فيها كل وسائل السلامة المعملية. وانا .ا قربان هده العينات يتم تحليلها ف قط لطلب البحث

اوافق انا المزكور اعلاه علي اخد عينة لاجراء الدراسة

..... الامضاء

.....التاريخ

Appendix III

2-9-3.Reagents

- Stago STA® Fibrinogen (for *in vitro* diagnostic use only) – contains lyophilized human calcium thrombin at a concentration of approximately 80 NIH unit/mL. each vial was reconstituted with 5 mL of distilled water. Reconstituted material was incubating at room temperature (18° C - 25° C) for 30 minutes. After incubation, the solution was gently mixed by swirling the vial without creating bubbles. The reagent was Handled and disposed as a biohazard.
- Control: Precision BioLogic CRYOcheck™ Pooled Normal Plasma: normal citrated human plasma from a minimum of 20 healthy individuals, buffered using Hepes buffer, aliquoted and rapidly frozen. Each vial was thawed (1.0 mL) at 37° C + 1° C in a waterbath for 4 minutes (1.0 mL) or 5 minutes (1.5 mL). plasma was Allowed to acclimate to room temperature (18 - 25° C) and inverted gently prior to use.
- Calibration Reference Plasma
- Distilled Water
- Owren's-Koller (veronal) buffer – buffered solution at pH of 7.35. the manufacture instruction for disposed were followed to prevent formation of explosive metallic azides .

2-9-4.KIT Reagents

- Reagent 1: freeze dried titrated sodium calcium thrombin containing a specific heparin inhibitor.
- Reagent 2: Ready for use Owren-Koller buffer, pH 7.35 contains sodium azide as preservative.

2-9-6.Reagent preparation and storage

- Reagent 1: Each vial was reconstituted with 2 ml of distilled water and allowed it to stand at room temperature (18-25 °C) for 30 minutes.
- Reagent 2 was ready for use.

2-10-2reagent

Factor VIII Deficient Substrate Plasma (Cat. No. 5193)

Ingredients: The reagent is human plasma which contains lessthan 1% Factor VIII activity. Precautions: For *In-Vitro* Diagnostic Use Only.

Preparation for Use: Each vial was Reconstituted of Factor VIII Deficient Substrate Plasma with 1.0 mL deionized water. Swirled gently and allowed to stand 15 minutes at room temperature to ensure complete dissolution.

Storage and Stability: The lyophilized product is stable until the expiration date printed on the vial and box labels when stored at 2 to 6°C. The reconstituted product is stable for 8hours. After the initial reconstitution period, the product was kept on ice for the duration of testing.

Materials Provided:

Cat. No.

- Factor VIII Deficient Substrate Plasma 5193
- Other Supplies Available from Helena
- Helena APTT Reagent Kits
- 10 x 5.0 mL - 250 tests 5383
- 10 x 10 mL - 500 tests 5384
- 10 x 10 mL - APTT Reagent 5385

- 10 x 10 mL - Calcium Chloride 5386

Helena APTT-SA Reagent Kits

- 10 x 10 mL - 500 tests 5389
- 10 x 10 mL - APTT-SA Reagent 5387
- 10 x 5 mL - 250 tests 5388

Materials required but not provided:

- 12 x 75 mm plastic test tubes
- Stopwatch

Plastic or siliconized glass serological pipettes and syringes