



مركز الجودة للمختبرات الطبية

Center for Quality in Medical Laboratories



Function of Center for Quality in Medical Laboratories as PT provider in Palestine

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Al Quds University

Eurachem workshop, Nicosia

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Outline:

- Background
- Number of labs
- Number of tests
- Activities
- Future Plans

Background

- The Program
- The external quality assessment scheme was initiated in 1995 at the Faculty of Health Professions – Al Quds University in cooperation with MAP-England and the Palestinian Health Council.
- The program continued to operate in 2001, where eighty-one laboratories were distributed to all institutions and governorates in the West Bank.
- At the end of 2001, the program was interrupted due to political events and the inability to communicate effectively with laboratories.

The Program , cont.

- Reactivation of the program
- 2009 - 2012 Continued work at the university and began work **Online**
- 2012 **Center for Quality in Medical Laboratories (CQML)** was established as an independent entity affiliated to Al Quds University
- A memorandum of understanding was signed with the Palestinian Medical Technology Association (PMTA) and the Ministry of Health
- The participation became **Mandatory** with symbolic Fees

The Program, Currently , cont.

Schemes: 7 schemes, More than 60 tests

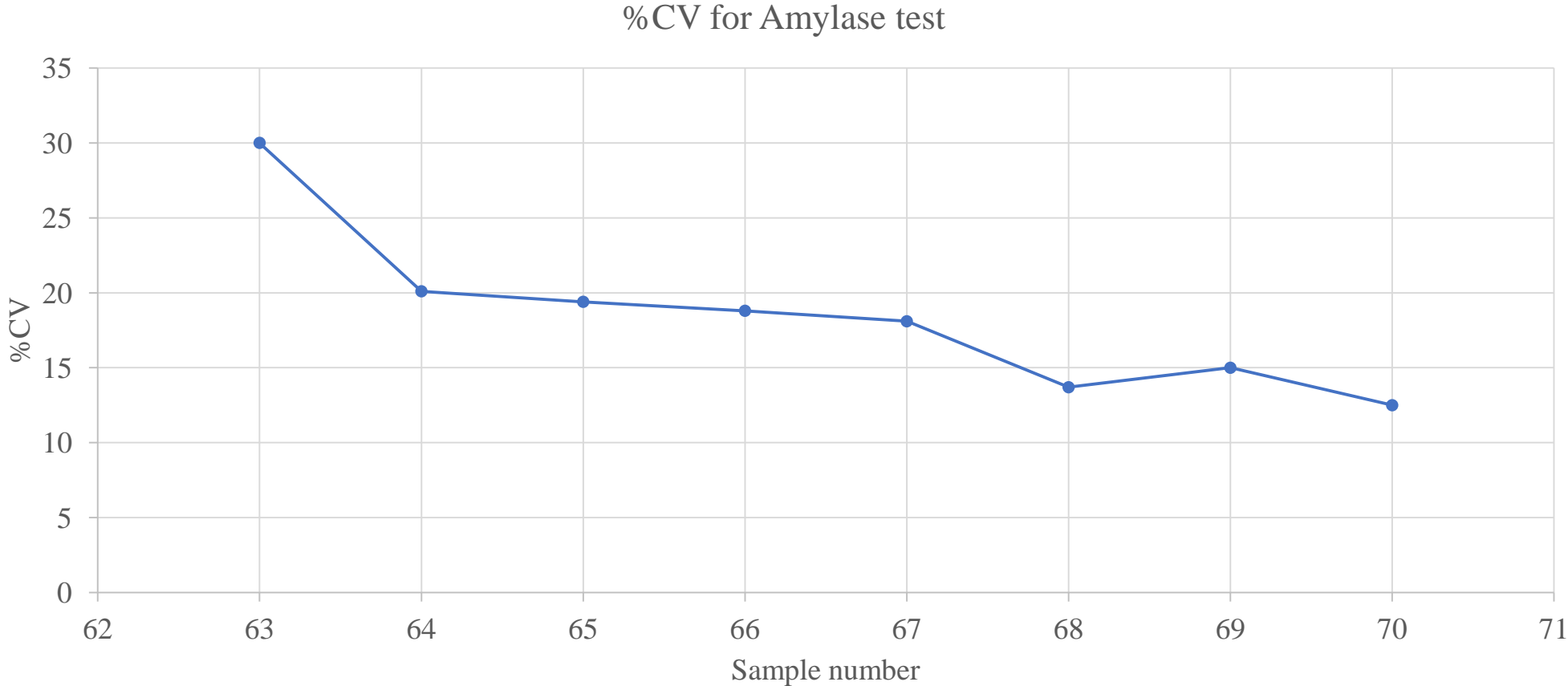
- **Clinical Hematology: (stabilized blood) 8 tests**
 - WBC, Hb, RBC, HCT, MCV, PLT, MCHC, MCH
- **Clinical Chemistry: (Lyophilized serum) 18 tests**
 - Glucose, Creatine , Uric Acid, GOT, GPT, Urea, Cholesterol, Triglycerides, Alkaline Phosphatase, Bilirubin, calcium, Albumin, Creatine kinase CK, HDL-Cholesterol, Phosphorus inorganic, Amylase Total, Sodium, LDL Cholesterol
- **Hb A_{1c} (Fresh blood)**
- **Coagulation: (Lyophilized Plasma) 3 tests**
 - PT, APTT, INR
- **Hormonal Assay: (Lyophilized serum) 7 tests**
 - FSH, TSH, LH, Prolactin, FT₃, FT₄, βHCG
- **Urine Dipstick: (stabilized urine) 10 parameters**
- **Medical Microbiology: (Lyophilized organism) Pilot survey**
- **Food Microbiology: (Lyophilized specimens) Pilot survey**

The Program, Currently , cont.

- Number of labs: **Feb 2019:** 530 labs
- Statistical Analysis
 - Based on Algorithm A (ISO 13528), robust mean and robust SD
 - Analysis based on method and instrument type (grouping)
 - Performance: based on **DI** and **Mean VIS** and **OMVIS** (annual)

Example of the impact of EQAS

Improvement of the performance of amylase testing 2018



Problems Faced by Center

- Sample preparation for Hb A1c (lyophilized vs Fresh)
%CV drop from 22% to ~7%

Center Activities

- Pipet calibration (ongoing service)
- Continuous Education
- Workshops for Medical Laboratories
- Participation in Conferences

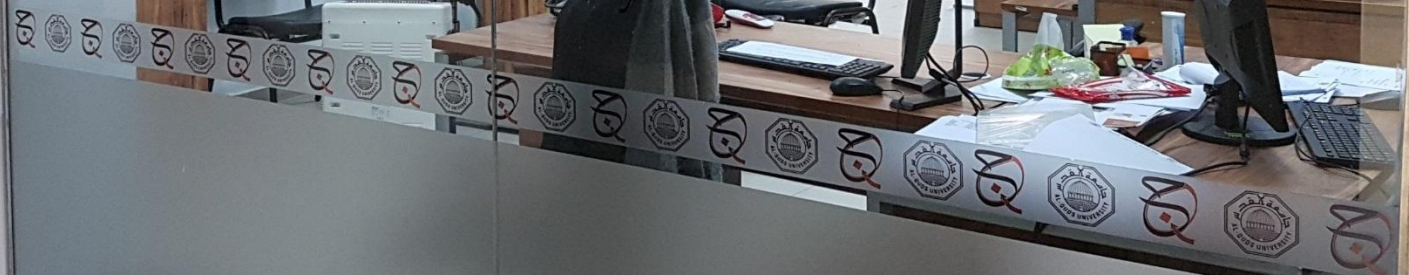
Future Plans: (2019 - 2020)

- Updating Website: www.eqas.alquds.edu
- Accreditation: Working on the way to ISO 17043
- Implementation of New Schemes (starting June 2019)
 - Virtual Microscopy
 - Urine sediment,
 - Blood Film analysis
 - Stool parasites
 - Blood grouping



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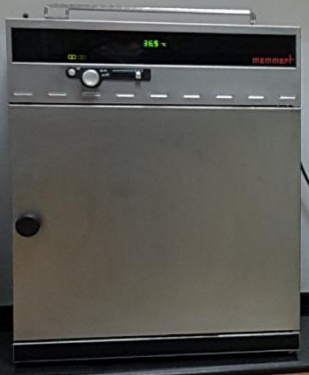
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-86°C Freezer





BOBASE





Thank You