

Harmonization and standardization of laboratory equipment and supplies.

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Meeting on Procurement of Laboratory Items

27th – 28th October, 2008

Geneva

Etstano Hydrocortisone, Barbitones, (ALCOHOL) Instrumentation, Rpo, hsp, Rat, Ethyl, Acetate
India Ink controls
(s Precision balance desktop) KH₂PO₄ (Bristle brush, soft (for cleaning))
Hayem's solution, Waste container, with soaking water bath, Formalin
Glucosemeter, Whole Blood Glucose
Plastic, disposable tubes, Acrylamide autoclave or burning receptacle
Acetonitrile, Biological safety cabinet, UV
electric (micro-incinerator) Instrumentation: VITROS DT60 II,
Stirring water bath, replacement Analytical balance, ultra Microhematocrit centrifuge
Poinstrum Hydroxide, Spin (KOH) Unit tag, instrumentation, BA-88, Mingray
Instrument, Electric, portable, steriliser, Detergent, Sodium pyruvate, Amine
Chair, lab bench, height adjustable, or backrest, Fixed autoclave, China
Integra 400 (small volume) Silica Gel Tube Racks, dichloromethane
Sodium nitrate, Peptone, Antibiotics, Blood grouping reagents
Sterilisation, Indole, Sulfanilamide, Spatulas/Scoops, Lactate POC device, methylsulphano-dramine
Platelet bags, lab benches, Magnesium sulphate, MgsO₄, Electrolyte analyzer
control bags, systems, chloride, in, in, in, in, Acetone, Chloroform, Spirit, Namp
Moisture Analyzer, General Hydrocortisone, Instrumentation, Chloroform, Spirit, Namp
Potassium permanganate, K₂Cr₂O₇, Loops/Needles, Analytical balance
Instrumentation, Chebodium hydroxide, Filas (H) Gas Regulators, Media
Acetic Acid, crystal, Nitric Acid, Cartons - benchtop, Sodium chloride centrifuge for 12 x 75 tubes
L-Asparaginase 2000 (small, de Sodium chloride centrifuge for 12 x 75 tubes
Bags autoclave Clear, 37x48 (reagent grade), Resealable specimen bags
Instrumentation, Biological safety cabinet Class I, Xylene, Agarose
4-wheeled push Takt solution, Lactate POC Benchtop, Microcentrifuge cartridges
Spectrophotometer, Tachometer, Instrumentation: Chem Labs Ltd
Bio-hazard bags, 8 x 12 (small), Bags autoclave Clear, 24x36
Biological safety cabinet, HepA, storage, EDIA analyzer 3000 (small, desktop), Isopropyl Alcohol
filtemplacement, ABX, Penta 400, India Ink, Buffers, Hydrochloric Acid (HCl)
Platelet pooling adapters, Centrifuge maintenance, Human GmbH, Germany, Serum
Des Analytical balance, micro, Evaporator used, Bio-hazard bags red 14 x 10 x 10, Chloroform
Test tube agglutination viewer, Centrifuge benchtop, Eppendorf, readers/Scrapers, Benchtop, manual
Magnesium sulphate, 12, 240V, 50/60 General Purpose, Analog, Waterbath

An overview

National Health Service and Public Health Labs, United Kingdom

Institute of Human Virology, Nigeria (ACTION Project), University of Maryland

Association of Public Health Laboratories (Nigeria, Mozambique, Rwanda)

Perspectives:

1. Medical Technologist/Technician/Lab Scientist
2. MoH
3. Foreign implementing partner
4. Vendor/Distributor

Pros and cons

Threats and opportunities – Maputo meeting

1. Technologist/Technician/Scientist

“We don’t have control over the supplies we receive”

“We go to the open market when we run out of kits”

“The pharmacist controls lab supplies”

“The reagents we receive have already expired”

“We have equipment but no reagents or supplies”

“The machine has been broken for months”

“Nobody knows how to use the equipment”



2. MOH

“We don’t have the staff”

“There’s a lot of bureaucracy”

“We need help with logistics / communication”

“We don’t have adequate storage”

“The vendors don’t provide adequate service”

“We don’t know which equipment to choose”

“The donors are out there doing their own thing”

3. Foreign Implementing Partner

“We need to scale up rapidly”

“The MoH doesn't have the capacity”

“Lab scientists do not undertake proper stock control”

“Vendors do not provide good service”

“Shipping and customs clearance is a nightmare”



4. Vendor

“We have worked in this country for many years”

“The MoH doesn't pay on time”

“The MoH / lab staff don't know what to order”

“The equipment is always breaking down”

“Staff in the lab are constantly changing”

“MoH does not realise the cost of doing business”

Standardization of lab supplies and equipment: some pros and cons

	+	-	Comment
Equipment selection	✓	✓	Selection, suitability, support
Installation	✓		Scalability
Training	✓		Std materials, centralized
Maintenance/servicing	✓	✓	Relies heavily upon vendor
Supplies	✓	✓	Single supplier, monopoly
Forecasting	✓		Could be easier (with good guidance)

Threats

Important to avoid certain pitfalls:

- Accountability of stakeholders
 - Let's not assume all the problems will go away
- Putting vendors out of business
 - Support
 - Local economy
- Creation of monopolies
 - Product development
 - Price (long term)



Opportunities

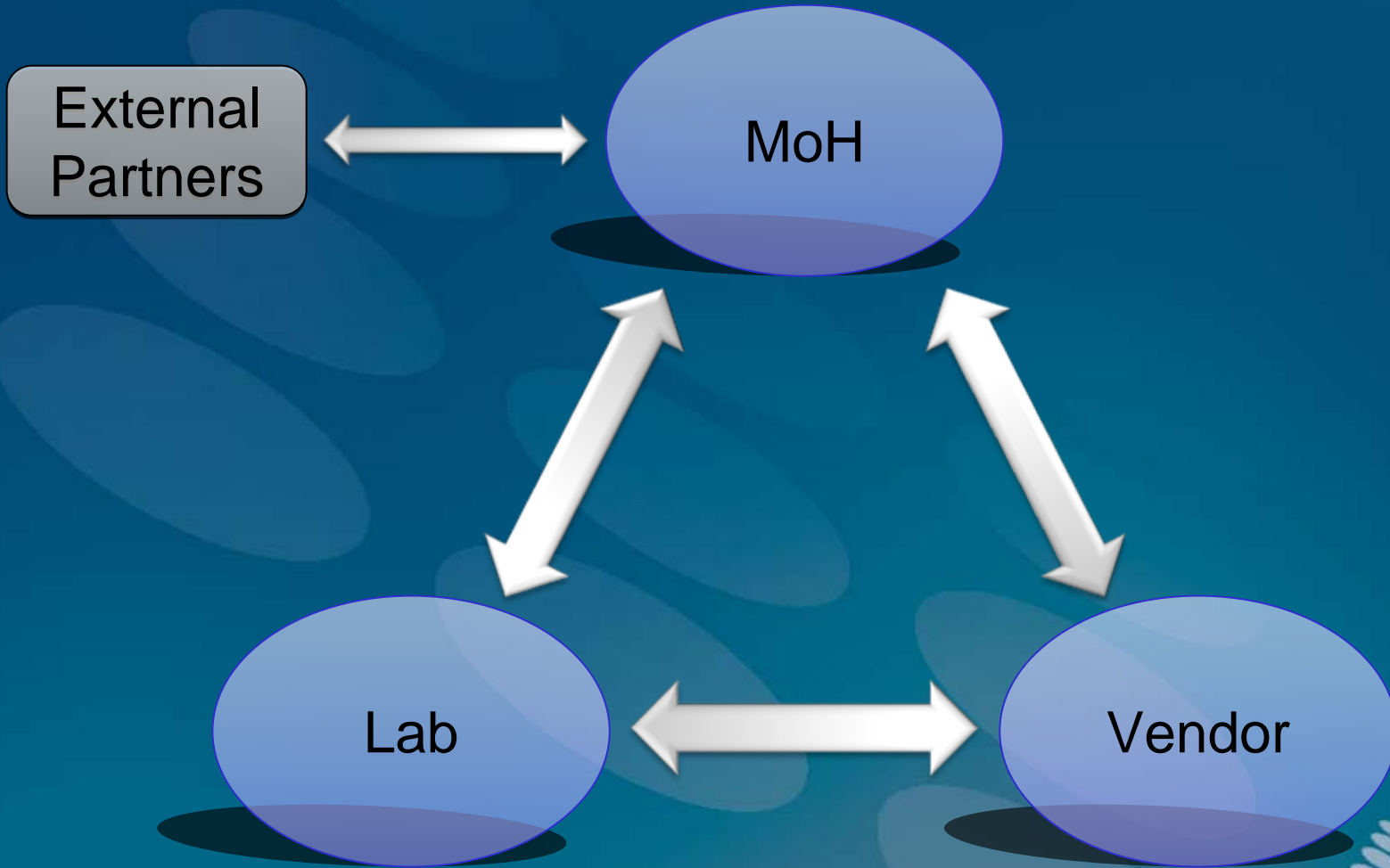




Photo courtesy of Dr. Klaus Sturbeck, CDC Mozambique

