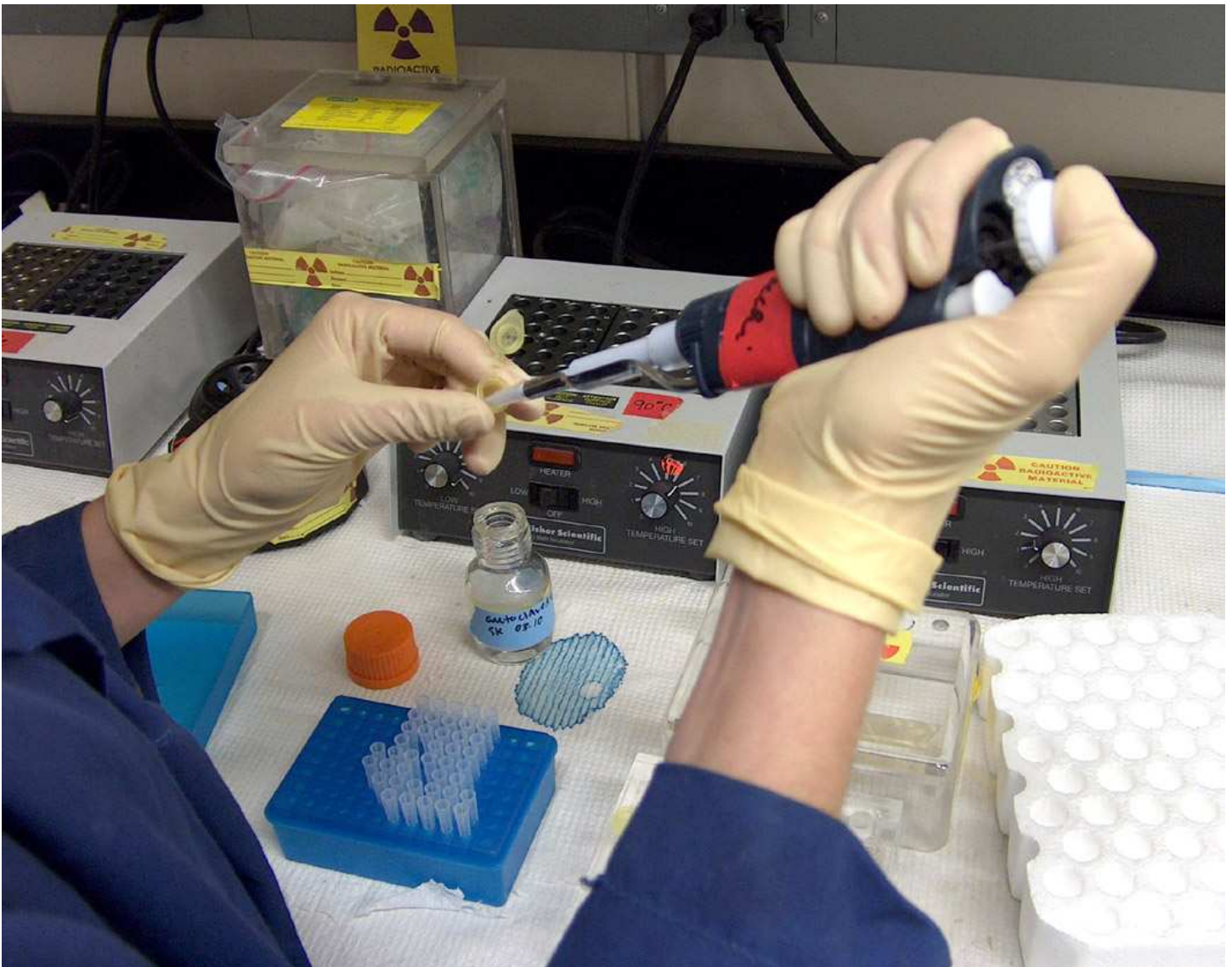


axeTime LIMS

Computerised Laboratory Information Management System



Optimising workflow process for laboratories

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Typical steps taken by labs to carry out patients tests

1. Patients register at the Lab; Tests with costs are identified
2. Patients pay
3. Patients move to designated laboratory areas
4. Patients seat on a first come first serve basis. Alternatively, they are given tickets.
5. Technologist carries out tests according to their seating arrangements or ticketing system
6. Samples or specimens are taken to be analysed
7. Results are written down and sent to the doctor or given to the patient

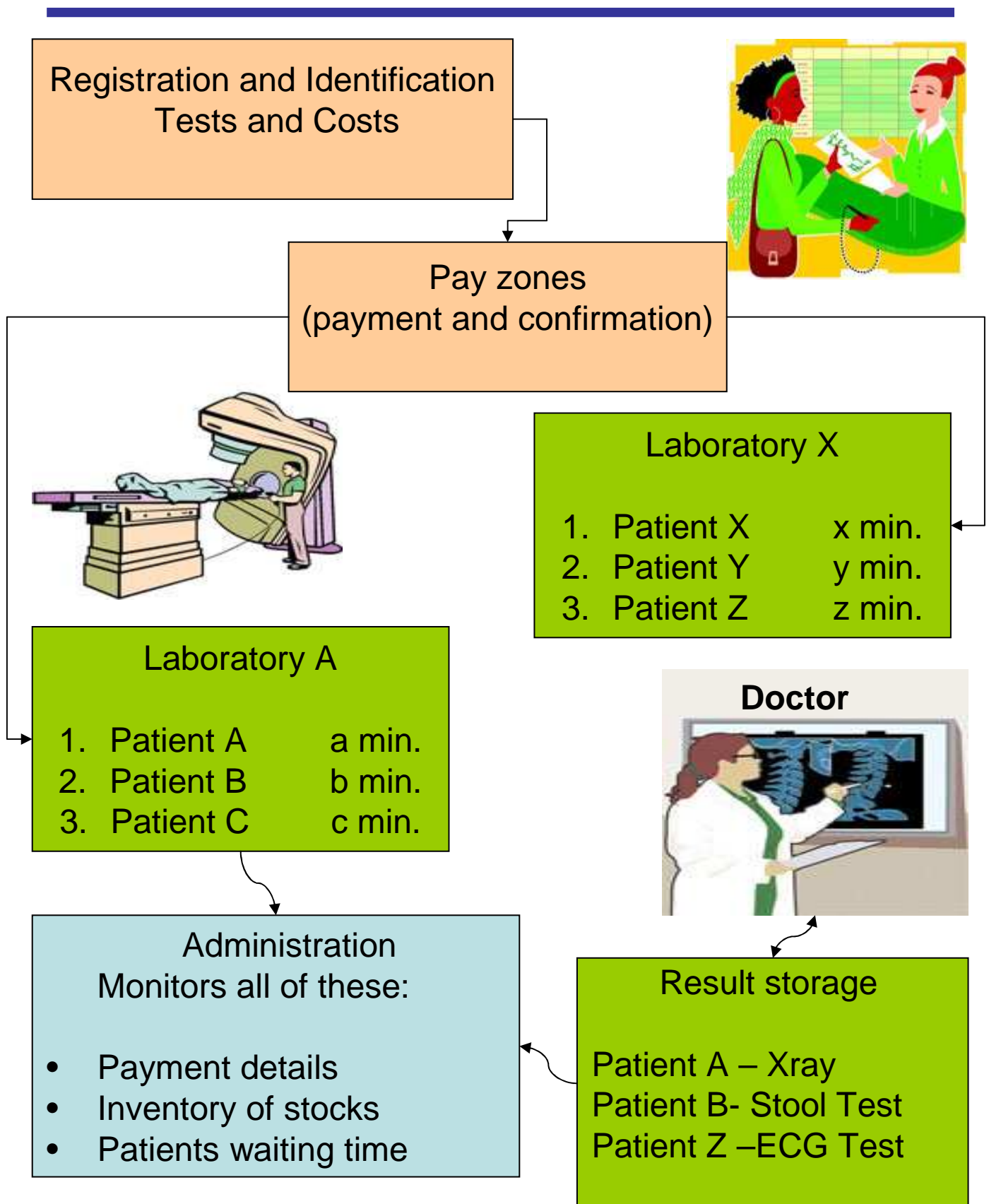
*Of course, there are problems with these steps
And major ones will be highlighted next page*

Major challenges faced by medical laboratories

1. Fake receipts / tellers, unauthorized payment reduction or outright stealing of funds by staff
2. Keeping an eye on inventory of materials used for the tests
3. Patients care: Long waiting time, poor patient – hospital relationship
4. Keeping track on tests that require multiple investigations within a period
5. Difficulty accessing past test records of patients

*axeTime Laboratory management system
eliminates these problems*

axeTime Laboratory Management System



How axeTime Lab Management System works

- 1. Patient registers and tests are identified alongside the costs.
 - (Only 1st timers register. Reduces patient waiting time)
- 2. Patient payment information is sent to pay zones
- 3. Patient pays and this is confirmed.
 - For smaller organisations, 1,2 & 3 can be at the same place and done by same person
 - For bigger organisations, 3rd party banks are used

- 4. Patient details are sent electronically to the lab.
- 5. The lab technician 'calls' the patient
 - 'Calls' can mean calling the patient by name or displaying his/her name in a public display system
- 6. Tests are carried out.
 - Stock control carried out on materials used for the tests
 - Lab equipment is interfaced to system to reduce mistake made by writing it manually.
 - Patient results are stored

- 7. Doctor can view and retrieve test result
- 8. All these are monitored by the Administrator

How the system improves efficiency and maximises profits

1. Automating lab. workflow process

- Reduction of paper work
- Flexibility in terms of payments from patient
- Linkable database for future connectivity
- Improvement of lab workflow process
- Cumulative patient database
- Automate complex billing system
- Reduction of patient waiting time.

2. Reduction of fake receipts and tellers from cashiers

- The person issuing out the receipts/tellers must also confirm payment.
- If no confirmation is done, request for tests are not sent to the lab

3. Monitoring test materials used by technicians

- Inventory control system links tests to materials.
- So, for each test carried out, the materials used are recorded.
- Allowance exists for test to be repeated. But too many repeated tests may reflect on the technician's competence

Uniqueness of our solution

- Specifically designed for the Nigerian Market
- Excellent simplicity and ease of use
- Package made up of these sections:
 - Cashier (Including 3rd party Bank payments)
 - Technician (who carries out tests)
 - Doctor (who needs to retrieve results)
 - Administrator (who manages the lab.)
- Excellent patient friendly payment systems
 - Partial and discounts payments
 - Premium (Express) payment to jump queues
 - Recognition of differed payments for referrals
- Easier monitoring of technicians' performances
- Customisable to suit the enabling hospital's laboratory
- Incorporation of Lab materials Inventory control system

Some screen shots

Cashier screens:

Investigation assignment by: Administrator for: Prof. F. Best

Select Existing Clinic: **New hospital**

Selected Clinic: **New hospital**

Contact Person: **Dr Matran**

Contact No: **01-22- 12345655**

Address: **General3**

Select Main Investigation: **Specialised X-ray**

Sub Units	Cost(Naira)
<input checked="" type="checkbox"/> CXR-PA	23.00
<input checked="" type="checkbox"/> CXR-PA/LAT	45.00
<input checked="" type="checkbox"/> CXR-PA/LA/OBL	21.00
<input type="checkbox"/> FOREARM	35.00
<input type="checkbox"/> CERVICAL SPINE AP/LAT	56.00
<input type="checkbox"/> Neck	34.00
<input type="checkbox"/> Other	56.00

Mode of payment: Full Payment Premium Retainership Apply Discount Partial Payment

Total Amount: **#89.00**

Result Log for: Prof. F. Best

Select dates for the Investigation: 01/09/2008 02:33:04 to 01/09/2008 12:30:54

Tick the sub units when giving results:

<input type="checkbox"/> NECK	56.00
<input type="checkbox"/> PARANASAL SINUS	45.00
<input type="checkbox"/> CXR-PA/LA/OBL	21.00

There was a problem with twisting the neck. A repeat will be necessary.

Make outstanding payment: **#408.00**

Select the paying clinic: **Max: #408.00**

Technician screens:

Investigation form by user: Administrator

Click on the list:

Investigations	Investigator
<input type="checkbox"/> Customer wait time: 36min.	<input checked="" type="checkbox"/> User1
<input type="checkbox"/> Customer wait time: 16min.	<input type="checkbox"/> demis4
	<input checked="" type="checkbox"/> wale2

Detail investigation by: Administrator

Scan barcode to confirm: 00024400439210000000

Investigations: Customer wait

Details: Prof. Fore. Best

Click the sub units after investigation:

<input checked="" type="checkbox"/> NECK
<input type="checkbox"/> PARANASAL SINUS
<input type="checkbox"/> CXR-PA/LA/OBL

Investigations Completed: Enter the number of repeats:

Administrator screens:

Reports by Administrator

Summary of Investigations From 01/04/2008 To 01/11/2008

Investigations	Sub Unit	Count	Cost (N)
Specialised X-ray	CXR-PA	1	23.00
Specialised X-ray	CXR-PA/LA/OBL	1	21.00
Specialised X-ray	CXR-PA/LAT	2	90.00
Interventional Procedures	FEMUR	1	11.00
Specialised X-ray	FOREARM	1	35.00
X- Ray Investigations	NECK	1	56.00
X- Ray Investigations	PARANASAL SINUS	3	135.00

User Administration by Administrator

User Tasks: Create Users Edit Users Delete Users

Editable User Details:

Forename(s): Test4

Surname: STest4

Username: Test4

Change Password

Username list: demis4, demis4, wale2, Test4