Q units of measurement:-

- Measurement is expressed c
  (1) Number
  (2) Units → identifies dimension of measu
  property → mass, volume, concentra

- Metric system
  ↳ Traditional system
  ↳ units - length, mass and time
  ↓ in
  cm, gm & sec (CGS).
  and
  meter, kg and sec (MKS).
  ↓
  ~~Not convini~~
  → Not convenient and reasonable re volume in clinical chemistry.

- International System of Unit (SI Unit)
  ↓
- Due to inconveniency of metric system. SI sy was accepted internationally in 1960.

- Units in this system is called SI unit

- 3 classes of SI unit system
  ↳ Base
  ↳ Derived
  ↳ Supplemental Units

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(1) Base units
8 fundamental base units

(1) length	meter (m)
(2) Mass	kgm (kg)
(3) time	second (s)
(4) E. current	Ampere (A)
(5) temp	kelvin (k)
(6) Amt of substance	mole (mol)
(7) luminous intensity	candela (cd)
(8) Catalytic amount	katal (kat).

(2) Derived units :-
Derived from 2 or 3 base units

ex (1) volume → cubic meter (m^3)
(2) mass density → kg per cubic meter (kg/m^3)
(3) Conc of amt of substance → mole per cubic meter (mol/m^3)

(3) Supplement units :-
SI units not classified as base / derive

only 2 ex → (1) Radian (for plane angles)
(2) Steradian (" Solid ")

⇒ Some units outside SI units & are imp in certain applicat^n
ex → liter → reference volume in clinical gas analysis.

* Standa Reporting of test resut

→ Problem in reporte

(1) Dif. lab use dif name for same test — e BBS, PP

(2) " " " Same name for dif test

↳ ex (1) PP_2BS — 75 gm glu → 100 gm glucos → post food.

(2) Urinary protein (glucose) → random → 24 hr

(3) Test name does not presen all necessary info.

ex:- urinary protein → concentration. → per day excret?

→ Answer of problem.

- If lab describe test name in a universal accepted way.

(1) LOINC - logical observation identifier, name code.

(2) NPU

(3). SNOMED CT. (systemetized nomenclature of medicine and clinical t

(1) LOINC

database for universal name and code for identifying lab and clinical test.

purpose → exchange or transmission of lab. results and clinical test results across lab, hospitals, Countries etc.

RELMA - Software

use → (1) used by software companies for LIS

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⑥ Insurance agencies
⑦ gov. agencies.

→ Formale

Each test name has 6 parts components

① Components - ex = glucose (Analyte)
② kind of property → characteristic of what is measured. ex = concentrat^n.
③ Time aspect. → point in time (past)
→ Interval in time (eg hrs).
④ System
↳ specimen type
⑤ type of scale
ex = quantitative ex = mg/dl
↳ Ordinal ex = + / ++ / +++
↳ Nominal ex = positive / -ve - keton
↳ Nominal ex = Interpretat^n - Hb electrophoresis
⑥ Type of method

⑧ NPU (Nomenclature properties, units) includes
① Name of system or abbreviat^n.
② A dash
③ Name of analyte (and abbreviat^n)
④ A comma
⑤ The quantity name or its abbrev
⑥ An equal sign
⑦ The numeric value and its unit

ex. GLC - Glucose, concentrat^n = 100 mg/dL