The School of International Nonproprietary Names
The School of INN (International Nonproprietary Names)

In 1950 WHO established the INN Programme to provide a common language for people all over the world to work together for the safe and effective use of medicines.

The main objective of the programme is to define a single, unique, globally accepted name for each pharmaceutical substance.

The INN Programme is now launching a virtual school to mainstream INN and contribute to better treatment outcomes and patient safety globally.

What is an INN?

International Nonproprietary Names (INN) are global names for medicines.

They provide one reference generic name for each individual medicine that comes to market.

Since 1953, the World Health Organization has named over 10 000 medicines.
Why are they important?

A medicine can be identified in different ways:

- by its brand names (i.e. Algifor®, Advil®, etc.),
- by its chemical name (i.e. 2-(4-isobutylphenyl) propanoic acid), and
- by its international nonproprietary name (i.e. ibuprofen).

Why is a School of INN needed?

Any student of pharmacology and therapeutics will tell you that remembering names of pharmaceutical substances and their mechanisms of action is one of the most challenging tasks in their courses. Students tend to learn medicine names by rote.

The challenge does not end there. Throughout their career, healthcare professionals have to keep up with a continuous stream of names of new active pharmaceutical substances introduced into clinical practice, their mechanisms of action and how they work differently from existing medicines.

Meetings conducted over the years and a recent survey involving more than 1,000 respondents revealed an emerging need for a more prominent source of information on the INN nomenclature system. The survey showed that although INN are increasingly used in teaching, in practice many prescribers still prefer using brand names.

The original aim of the INN system was to increase patient safety, making sure that “a prescription filled abroad is what doctor ordered back home”. However, the use of INN has added benefits for individual patients and for public health.

Because INN provide a key to understanding medicine names and classes, they can assist clinicians in prescribing the most appropriate medicine for their patients and overall, provide appropriate communication among healthcare professionals.

With tens of thousands of medicines on the market, confusion between medicine names can have serious consequences for patient safety.
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What will the benefits be?

The SoINN is designed for health professionals, students, academia, patients and the pharmaceutical industry with one principal aim: to promote safe and effective use of medicine.

Other benefits include:
- Facilitating harmonization of nomenclature programmes around the world;
- Promoting correct and effective use of INN; and
- Awareness of INN and interest in the science of pharmaceutical nomenclature.

How does it work?

The SoINN is a virtual school managed by the WHO INN Programme. It has been developed on a free and open-source learning platform.

The School is designed to offer contributions from different INN stakeholders and to provide functionality for ad hoc sharing of courses or information with user groups based on different pre-defined user profiles.

The website contains three sections, with additional links for announcements, navigation and searching of stems in INN names.

Added benefits

The wide use of INN in clinical practice will support the use of substitution policies to select the most affordable among therapeutically equivalent products. At a time of rising medicines costs in health care systems, globally accepted names for pharmaceutical substances can help to orientate health professionals and patients within a complex pharmaceutical market, empowering them to identify alternatives with a view to increasing access to treatment.
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World Health Organization
International Nonproprietary Names (INN) Programme
20 Avenue Appia
1211, Geneva 27

SoINN : https://extranet.who.int/soinn  |  Email: innprogramme@who.int

WHO/EMP/RHT/TSN/2019.01

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