### What are public health goods?

<table>
<thead>
<tr>
<th>Group A</th>
<th>Pharmaceutical industry</th>
<th>Group B</th>
<th>Chemical inputs</th>
<th>Group C</th>
<th>Medical equipment, other inputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Formulations</td>
<td>B</td>
<td>Chemical Inputs of General Purpose</td>
<td>C1</td>
<td>Hospital's and laboratory inputs</td>
</tr>
<tr>
<td>A2</td>
<td>Bulk Medicines</td>
<td></td>
<td></td>
<td>C2</td>
<td>Medical technology equipment</td>
</tr>
<tr>
<td>A3</td>
<td>Inputs specific to the pharmaceutical industry</td>
<td></td>
<td></td>
<td>C3</td>
<td>Medical aid/orthopaedic devices</td>
</tr>
</tbody>
</table>

**Group A**
- **A1 Formulations**: 15 tariff subheadings covering medicaments put up in measured doses and packaged for retail sale.
- **A2 Bulk Medicines**: 15 tariff Subheadings covering medicaments not put up in measured doses for retail sale, that is, sold in bulk.
- **A3 Inputs specific to the pharmaceutical industry**: 43 tariff Subheadings covering inputs specific to the pharmaceutical industry, e.g. antibiotics, hormones and vitamins.

**Group B**
- **B Chemical Inputs of General Purpose**: 249 tariff Subheadings covering chemical inputs used by the pharmaceutical as well as other industries, referred to—at least partially—in the Uruguay Pharma agreement and subsequent revisions.

**Group C**
- **C1 Hospital's and laboratory inputs**: 35 tariff Subheadings covering bandages and syringes, gloves, laboratory glassware, diagnostic reagents, etc.
- **C2 Medical technology equipment**: 39 tariff Subheadings covering medical devices used in diagnosis or treatment covering furniture, X-rays, machinery, etc.
- **C3 Medical aid/orthopaedic devices**: 17 tariff Subheadings covering mechanical aid, orthopaedic devices, lenses and hearing aids.
Imports of health-related products ($US billion) and average annual growth 1995-2016

- A1 - Formulations: 13.4%
- B - General inputs: 8.5%
- C2 - Medical equipment: 11.0%
- C1 - Hospital inputs: 12.7%
- C3 - Orthopedic devices: 11.9%
- A3 - Specific inputs: 6.3%
- A2 - Bulk medicines: 8.0%

Source: WTO Integrated Database (IDB) complemented by UN Comtrade, 2018
Applied/bound tariffs by category, 2017

- Developed countries
- Developing countries
- Least developed countries

<table>
<thead>
<tr>
<th>Category</th>
<th>Average Applied Duty</th>
<th>Average Bound Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td></td>
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<tr>
<td>A2</td>
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<td>C1</td>
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<td>C2</td>
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<tr>
<td>C3</td>
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</tbody>
</table>

Source: WTO Integrated Database (IDB), 2018
Participants of the Pharma are account for 65% of global trade in the sector now.

Source: UN Comtrade database 2016
Antisera, other blood fractions and immunological products, whether or not modified or obtained by means of biotechnological processes.

**Malaria diagnostic test kits**

*New:* Subheading 3002.10 has been subdivided to create new subheadings 3002.11 for malaria diagnostic test kits, and 3002.12 to 3002.15 for immunological products, whether unmixed, mixed or put up in measured doses or in forms or packings for retail sale. [...]
Building TiSMoS: the approach

Existing BoP data

- Estimation of missing information
- Allocation by mode
- Individual country experiences

Existing FATS data

- MSITS simplified allocation table
- EBOPS-ISIC bridge table

Additional data sources (tourism, TEC, STEC...)

Refinements

Final TiSMoS dataset
World trade of health services (Mode 1)

Source: Trade in services by mode of supply (TiSMoS), 2019