



# **The role of essential medicines in emergency and humanitarian settings: MSF perspectives**

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**Dr Daniela Garone**

International Medical Coordinator  
Médecins Sans Frontières | International Office

# EML: which lens?

- The EML is a **key tool for Primary Health Care**
- The EML must be **inclusive** for the treatment of most vulnerable populations in humanitarian crises and low resource settings
  - Medicines should be **available, affordable** and **quality assured**
- Populations in humanitarian emergencies and low resource settings have the **same morbidities** than the settings where they are coming from but we need adapted treatment options

# Humanitarian crises and essential medicines

Recommended characteristics for essential medicines to use in humanitarian crisis:

- **Adapted formulations**
  - FDC
  - Dispersible tablets, granules, or pellets rather than syrups for paediatric formulations
  - Single doses treatment and long-acting formulations (PrEP and treatment)
  - Thermostable single doses formulations rather than cold-chain
  - Longer shelf-life
  - Breakable formulation
  - Ready to use preparations/self-administration
- **Improved safety profiles** in settings where pharmacovigilance and monitoring is challenging
  - Allowing distribution by lay staff (CHW-peers - counselors)
- **Larger field of approved indications for ATB:** broader use per medicine (early stage of emergency response)
- **Affordability and availability**
- **Importation mechanisms that reduce lead time** e.g. for narcotics and controlled medicines

# Adapted formulations

## Fixed doses combinations

- **TPT:**
  - rifapentine 300 + isoniazid 300
- **HCV:**
  - sofosbuvir + daclatasvir
  - sofosbuvir + velpatasvir
  - glecaprevir + pibrentasvir

## Dispersible tablets, granules, or pellets for paediatric formulations (not syrups)

- **TB:**
  - bedaquiline 20 mg scored tablet (ready to be dissolved in water, then mixed with other beverage or soft food)
  - delamanid 25 mg dispersible tablet
- **HIV:**
  - dolutegravir 10 mg scored dispersible tablet
  - "4in1" FDC abacavir 30 mg + lamivudine 15 mg + lopinavir/ritonavir 40mg/10mg granules in capsules.

# Adapted formulations

## Long-acting formulations

- **Antipsychotic:**
  - paliperidone LAI: one injection / month

## Formulations with higher strengths: reducing pill burden and storage volume

- **new strengths of oral antibiotics**
  - amoxicillin 1g
  - cefalexin 500mg
  - phenoxymethylpenicillin 500mg
  - ciprofloxacin 500mg
- **new dosage:**
  - amoxicillin + clavulanic acid (7:1 ratio). MSF suggests to consider also 8:1 ratio and child-friendly formulations.

# Adapted formulations

## Ready to use preparations

- **Antipsychotic:**
  - Paliperidone prefilled syringe
- **Antibiotics:**
  - Injectable ATB not needing reconstitution

## Extended shelf-life

- **Antiseptics, biocides:**
  - **Hypochlorous acid:**
    - stable
    - concentrated
    - shelf-life  $\geq 3$  years
    - ready-to-dilute product

# Larger field of approved indications

- **Hypochlorous acid**

- Broad spectrum of bactericidal, virucidal, and fungicidal activity
- Wound-cleansing agent with antiseptic and healing properties
- Well-studied, non-toxic, non-corrosive, easy to use compound, and more effective and safer alternative to other chlorine generating disinfectant agents

- **New indications for already listed ATB:**

- Necrotizing fascitis (ceftriaxone, clindamycin, metronidazole, piperacillin-tazobactam and vancomycin)
- Neonatal meningitis (gentamicin) Intra-abdominal infections (gentamicin and ampicillin)

# Specific case

## Insulin analogues

- **Lack of data for humanitarian, food-insecure, and other low resource settings for which the EML is most relevant**
  - Where is the safety and efficacy data in the context of food insecurity?
  - What should we do for migrants with diabetes? Children with diabetes living in food insecure contexts?
- **Quality, price and supply**
  - The cost of production for insulins is known; data should be updated
  - Further price reductions can be achieved if a number of biosimilar manufacturers enter the market
  - Ensure regulatory processes support quality assured biosimilar insulins to enter the market. Expedite / prioritize WHO PQ for biosimilar insulins, especially now post-WHA Resolution.
  - Need increased number of manufacturers to ensure growing global needs will be met with sufficient supplies.



# MSF perspective on submissions of significant impact for humanitarian settings

- **MMS**, long-awaited antenatal supplement
- **Combined hormonal vaginal ring**, useful alternative to oral contraception but too expensive
- Re-instatement of **eRIG** and inclusion of ARV **mAbs** for rabies PEP
- **Others**: paliperidone LAI, child-friendly antiTB drugs, child-friendly ARVs, direct-acting antivirals (DAAs) for HCV

# Affordability and availability of QA'd sources of EML medicines

- WHO study estimating **10% of medicines are substandard or falsified**: greatest proportion are substandard, more in LICs
- **Registration to aid availability and procurement gaps:**
  - lack of source, price and registration data on FDCs for HTN (2019 EML)
  - most carbapenems not registered or available in many LMICs
  - only half of new antibiotics entering the market between 1999 and 2014 were registered in more than ten countries
  - companies often do not file for or withdraw registration due to the costs
- **There is little planning for market introductions based upon burden of disease (case of antibiotics)**
  - only four out of 28 antibiotics under late-stage development in 2017 were accompanied by company plans to ensure access and only two of these focused on stewardship
  - RCTs (incl. post approval) must focus also on gaps in clinical needs such as serious infections seen in low resource settings (e.g. sepsis, meningitis, osteomyelitis); MDR/XDR bacterial strains; and paediatrics / neonates

# A few additional and final points

- Submissions for EML should provide all existing studies (RCTs, PK, cost-effectiveness...) and data (effectiveness, tolerability, availability, affordability)
- **Alignment between EML and PQ** scope is crucial to guide LMICs
- When a medicine is no longer recommended as single, but in combination: if co-packaged/co-formulations available, single medicine should be deleted from the EML
- **Square Box:** critical to allow selection of the best treatment based on availability, affordability, ease of import, logistical and practical constraints
- **All medicines must be**
  - quality-assured (internationally agreed quality standards),
  - manufactured according international GMP regulations,
  - affordable for LMICs,
  - distributed according to international GDP regulations.

Thank You