ESSENTIAL MEDICINES
BY THE WORLD HEALTH ORGANIZATION AND THEIR
CONVENIENCE ON ELDERLY PATIENTS

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Keywords:
Model List of Essential Medicines, World Health Organization,
BEERS, PRISCUS, STOPP-START

Category:
Patient safety and risk management

Background
• WHO updates the Model List of Essential Medicine (MLEM) every two years

• MLEM reflects the medicines that every health care system should have as a minimal requirement

Materials and methods:
• Observational study comparing Beers 2015, Priscus 2010 and of STOPP-START 2014 criteria with the MLEM 19th edition
• Dismissing no-chronic/no-elderly disease drugs

Results:
• MLEM has 409 medicines, 140 are considered chronic disease drugs

<table>
<thead>
<tr>
<th>PIMs</th>
<th>Beers Criteria</th>
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</thead>
<tbody>
<tr>
<td>Absolute – among 133 drugs</td>
<td>16/140 (11.43%)</td>
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<tr>
<td>May exacerbate an illness/syndrome – among complex drugs list</td>
<td>29/140 (20.71%)</td>
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<tr>
<td>Use with caution - Beers includes dabigatran, prasugrel, mirtazapin, oxcarbazepin and vasodilatation drugs that don’t appear in MLEM-</td>
<td>18/140 (12.86%)</td>
</tr>
<tr>
<td>To avoid/adjust with liver/renal impairment - among 20 drugs</td>
<td>3/140 (2.14%)</td>
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</tbody>
</table>

PIMs

MLEM doesn’t include the next PIMs

MLEM doesn’t include the next PPOs

Conclusions
• Explicit criteria guides have different potentiality to detect PIMs
• MLEM can manage to avoid PIMs
• According STOPP-START criteria, MLEM has not enough PPOs

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TO IMPROVE HEALTHCARE TO ELDER PEOPLE

Potential Prescribing Omissions (PPO)

TO FILTER

MLEM

MLEM doesn’t include the next PIMs

MLEM doesn’t include the next PPOs

PIMs

PPOs

44/140
27.50%
31/140
22.14%

Priscus criteria – with 83 PIMs-

Priscus criteria

PIMs

11/140
8%
92%

STOPP-START CRITERIA

Not included in MLEM

Included in MLEM

• Ticlopidine, acetylcholinesterase inhibitors, first-generation antihistamines, prochlorperazine, iron, theophylline, COX-2 inhibitors, α-1 receptor blockers, thiazolidinediones, z-drugs

• Acetylcholinesterase inhibitors, dopaminergic agonist, fibre supplements, anti-resorptive and anabolic therapy for bones, angiotensin-receptor blocker, α-1 receptor blockers, 5-α reductase inhibitors, topical and pessary vaginal estrogen

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