

القطاع الدوائي في قطر:يداً بيد في مواجهة الحصار

Medication Sector in Qatar: Hand in Hand Facing the Blockade



Economic Opportunity: Brand Drugs vs. Generic Drugs
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- Disclose of Conflict of Interest -

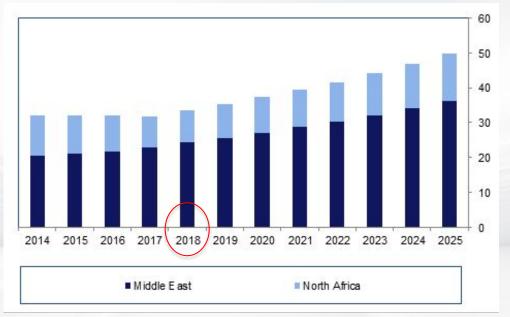
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Pharmaceutical markets in the Middle East region are attractive



- The high spending on branded drugs is unsustainable
- Publicly funded health systems increased pressure to reduce rising drug budgets





- Originator (NDA) vs Generic (ANDA) review process requirements
 - 20-90% cheaper generics

NDA Requirements	ANDA Requirements
1. Labelling	1. Labelling
2. Pharmacology/Toxicology	2. Pharmacology/Toxicolo
3. Chemistry	3. Chemistry
4. Manufacturing	4. Manufacturing
5. Controls	5. Controls
6. Microbiology	6. Microbiology
7. Inspection	7. Inspection
8. Testing	8. Testing
9. Animal Studies	
10. Clinical Studies	9. Bioequivalence
11. Bioavailability	

 The generic drug industry is responsible for making more affordable and cost-saving medicines



• USA, as example:

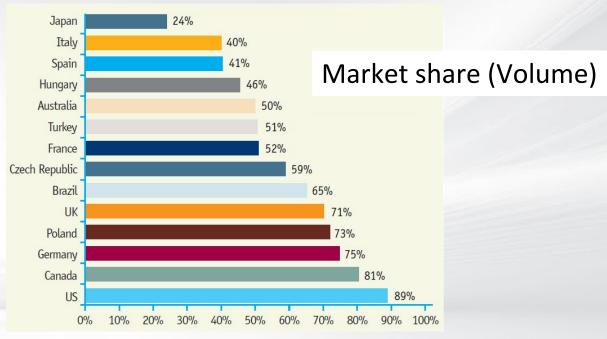
1980 - 17.3%

1990 – 32.0%

1997 – 43.0%

2009 - 63.5%

2016 - 89.0%

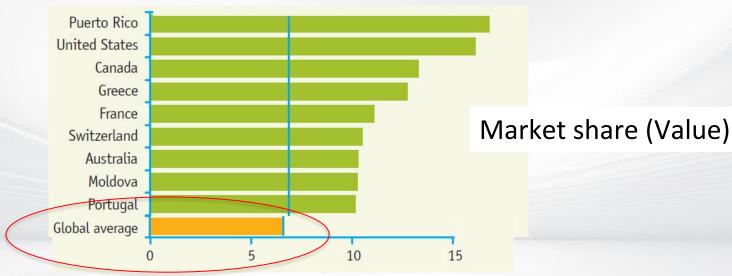


• Generics share in Qatar: 22%

Average share in Middle East: ~28% (6% - 70%)



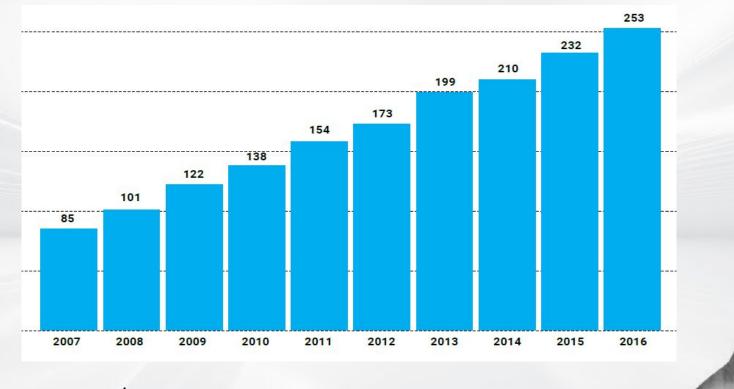








• In USA, as example, in 2007-2016, \$1.7 trillion (\$5billion/week) were saved



• In Canada, \$50,000 reduction in ICER per outcome







- HOWEVER, economic savings are not guaranteed
 - Evaluations of economic impact of generics are mostly based on acquisition costs, NOT disease cost
 - Duh et al (2009), review generic substitution of antiepileptic drugs may increase overall cost, due to reduced seizure control
 - Gothe et al (2015), 8 publications (antiepileptics, immunosuppressives, atypical neuroleptics and anticoagulants):
 - The overall economic evidence is against generics. Generics were associated with higher cost of:
 - Concomitant medications
 - Outpatient services costs
 - Inpatient services costs





- The bioequivalence limit by the FDA is 80-125% of the bioavailability of the originator drug
 - In USA, the limit is unchanged for Narrow Therapeutic Range (NTR) drugs
 - European guidelines provide a tightened acceptance interval of 90.00-111.11% for NTR drugs
 - In Australia, the limit does not apply to NTR drugs, e.g. no generic versions of digoxin or phenytoin, i.e. <u>high generic consequences cost</u>

The general economic benefit of generics cannot be denied

• Evidence based generic use - cost of disease research



- In Qatar local manufacturing is crucial, but...
 - Securing strategic trade partners other than few neighboring countries

Level of Competition	Increase in Price	95% Confidence Interval
Highest (quadropoly)	-31.7%	-34.4% to -28.9%
Next-highest (duopoly)	-11.8%	-18.6% to -4.4%
Near monopoly	20.1%	5.5% to 36.6%
Monopoly	47.4%	25.4% to 73.2%



Resources

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