

National barriers to Palliative Care: Results of the ESMO GOPI Survey

Nathan I Cherny

Norman Levan Chair in Humanistic Medicine

Dept Oncology

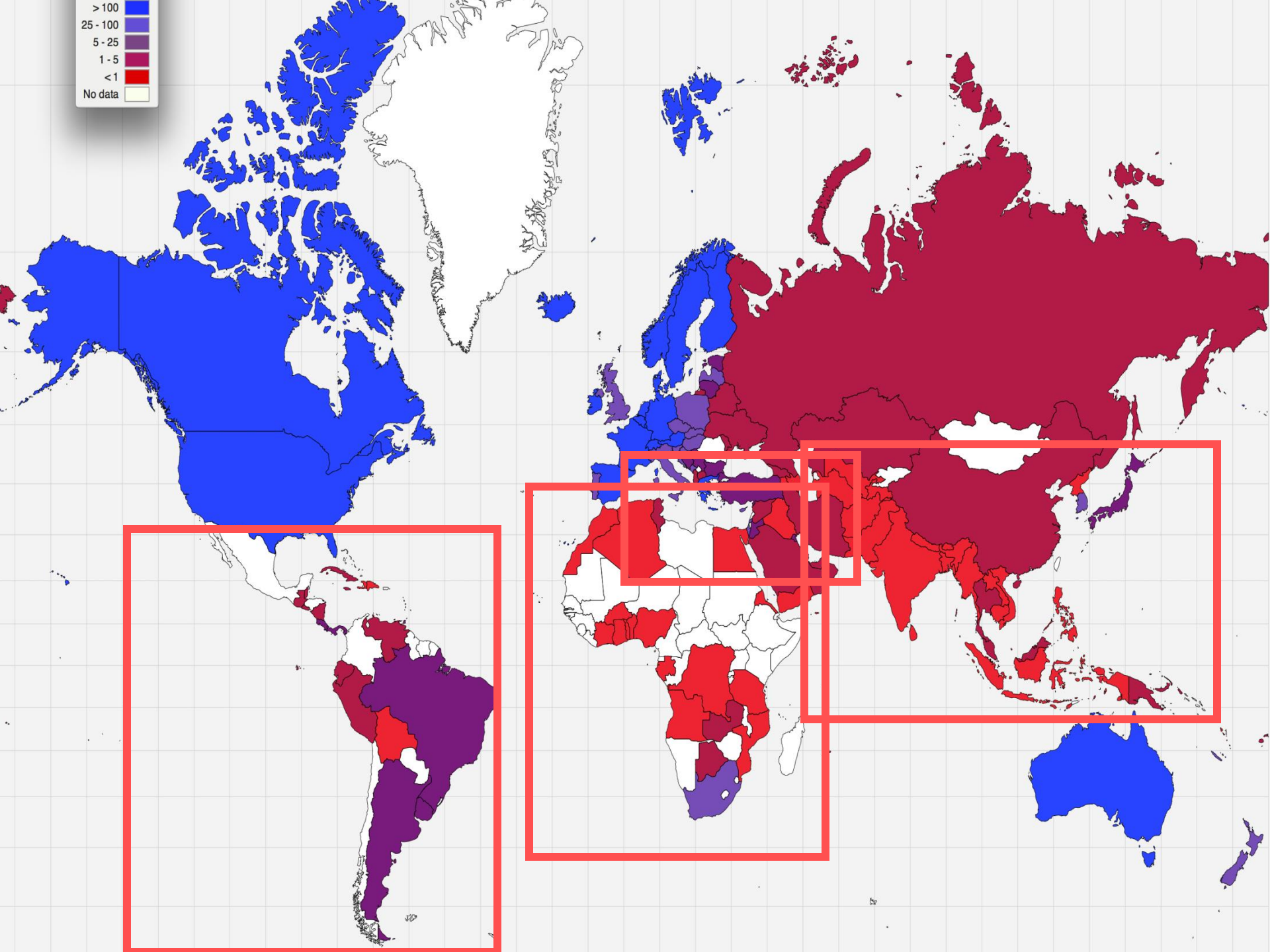
Unit Head: Cancer pain and palliative Medicine

Shaare Zedek Medical Center

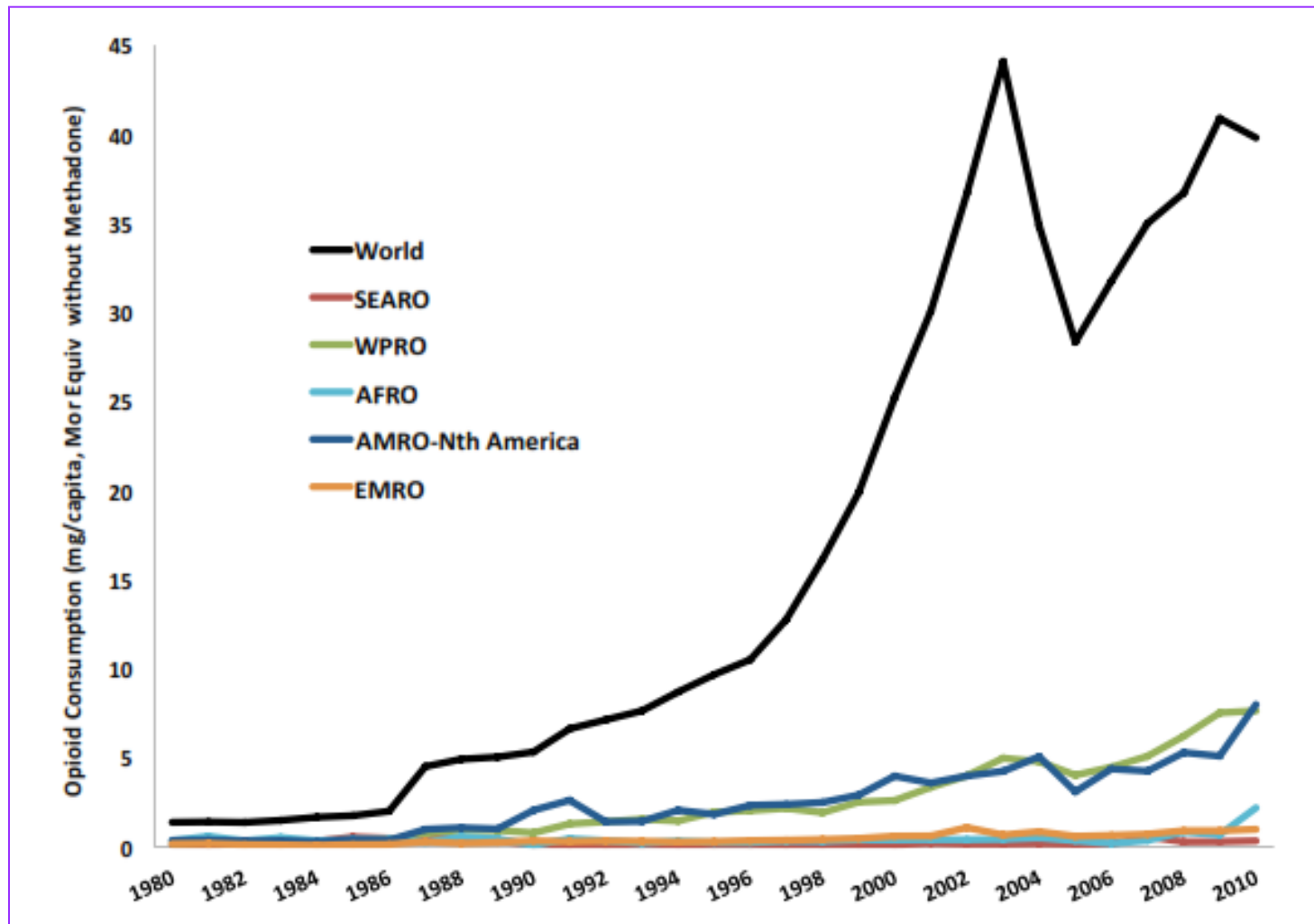
Chernyn@Netvision.net.il

Rest of the world

- English speaking world
 - US, UK, Australia +NZ
 - Well documented
- Non English speaking world
 - Sporadic reporting
 - Inconsistent methodologies
 - Lack of clear picture



Opioid Consumption



Coordinating partner organizations:

1. European Society for Medical Oncology (ESMO)
2. European Association Palliative Care (EAPC)
3. Pain and Policies Studies Group, University of Wisconsin Carbone Cancer Center (PPSG)
4. Union for International Cancer Control (UICC)
5. World Health Organization (WHO)

Collaborating partners:

1. African Organization for Research and Training in Cancer (AORTIC)
2. Latin American and Caribbean Society of Medical Oncology (SLACOM)
3. Latin American Association for Palliative Care (ALCP)
4. African Palliative Care Association (APCA)
5. World Palliative Care Alliance (WPCA)
6. Multinational Association for Supportive Care in Cancer (MASCC)
7. Asia Pacific Hospice Palliative Care Network
8. International Association of Hospice and Palliative Care (IAHPC)
9. Middle East Cancer Consortium (MECC)
10. Indian Association of Palliative Care (IAPC)
11. Open Society Foundation (OSF)
12. Chinese Society of Clinical Oncology (CSCO)
13. Help the Hospices
14. Japanese Society of Medical Oncology (JSMO)
15. Malaysian Society of Clinical Oncology (MSCO)
16. Myanmar Oncology Society
17. Foundation Akbaraly, Madagascar

Response Rate

	Populn (Mil)	Pop Countries reported	% population
Africa	1127	744	66%
Asia	2643	2546	96%
Middle East	436	408	93%
Latin and carriban America	595	560	94%
Indian States	1189	1061	89%
	5757*	5027*	87.30%

	No Countries or States	Countries Reported	% Countries
Africa	52	25	48%
Asia	27	20	74%
Middle East	21	16	76%
Latin and carriban America	33	24	72%
Indian States	28	25	89%
	155*	104*	67.09%

*Afganistan ,Algeria, Egypt, Morroco, Libya and Tunisia are listed in more than one continent

Formulary and Cost

7 essential opioids

Codeine

Morphine, Oral Immediate Release (MoIR)

Morphine, Oral Controlled Release (MoCR)

Morphine, injectable (MoINJ)



Oxycodone, Oral Immediate Release (OciIR)

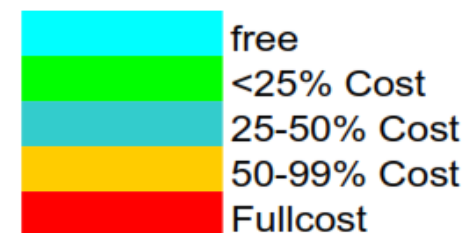
Methadone, Oral (MoPO)

Fentanyl, transdermal patch (FentTD)



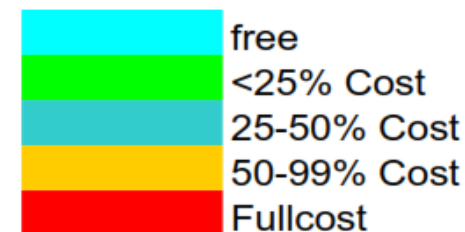
Formulary and Cost: Africa

Country	Formulary availability and Cost						
	Codeine	MoIR	MoCR	MoINJ	OcIR	MethPO	FentTD
Algeria	Fullcost	free	free	free	free		free
Botswana	free	free	free	free			
Cote D'Ivoire	Fullcost		Fullcost	Fullcost			
Ethiopia	Fullcost	free	Fullcost				
Ghana	Fullcost	free	free	free			
Kenya	Fullcost	Fullcost	Fullcost	Fullcost			Fullcost
Liberia	Fullcost		Fullcost	Fullcost		Fullcost	Fullcost
Madagascar	Fullcost	Fullcost	Fullcost	Fullcost			Fullcost
Malawi	free	free	free				
Mauritius	Fullcost	free	free	free		free	Fullcost
Morocco	Fullcost	Fullcost	Fullcost	free			Fullcost
Mozambique	<25% Cost	<25% Cost	<25% Cost	<25% Cost			
Namibia	free	free	free	free			
Nigeria	Fullcost	Fullcost	Fullcost	Fullcost			
Rwanda	<25% Cost		Fullcost	<25% Cost			
Sierra Leone	Fullcost			Fullcost			
South Africa	<25% Cost	<25% Cost	<25% Cost	<25% Cost			
Sudan		free	free	free			
Swaziland	free	free	free	free	free		
Tanzania		Fullcost		Fullcost			
Tunisia	Fullcost		Fullcost	Fullcost			Fullcost
Uganda		free	free	free			
Zimbabwe	Fullcost	Fullcost		Fullcost			



Formulary and Cost: Indian States

	Formulary availability and Cost						
state	Codeine	MoIR	MoCR	MoINJ	OciR	MethPO	FentTD
All NE States							
Bihar							
Delhi Region							
Goa							
Gujarat							
Haryana							
Jammu and Kashmir							
Jharkhand							
Karnataka							
Kerala							
Madhya Pradesh							
Maharashtra							
Orissa (Odisha)							
Punjab							
Rajasthan							
Tamil Nadu							
Tripura							
Uttar Pradesh							
West Bengal							



Actual Availability 7 essential opioids

Actual Availability: Africa

Country	Actual Availability						
	Codeine	MoIR	MoCR	MoINJ	OciR	MethPO	FentTD
Algeria	Always	Usually	Usually	Usually	Half the time	Never	Half the time
Botswana	Occasionally	Occasionally	Usually	Always	Never	Never	Never
Cote D'Ivoire	Always	Never	Half the time	Always	Never	Never	Never
Ethiopia	Occasionally	Occasionally	Occasionally	Never	Never	Never	Never
Ghana	Always	Always	Always	Usually	Never	Never	Never
Kenya	Occasionally	Occasionally	Occasionally	Occasionally	Never	Never	Usually
Liberia	Half the time	Occasionally	Occasionally	Occasionally	Never	Occasionally	Half the time
Madagascar	Always	Always	Always	Always	Never	Never	Usually
Malawi	Occasionally	Usually	Usually	Occasionally	Never	Never	Never
Mauritius	Always	Usually	Usually	Always	Never	Usually	Always
Morocco	Always	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
Mozambique	Usually	Usually	Usually	Half the time	Never	Never	Never
Namibia	Usually	Occasionally	Occasionally	Half the time	Never	Never	Never
Nigeria	Usually	Half the time	Half the time	Usually	Never	Never	Never
Rwanda	Occasionally	Never	Occasionally	Occasionally	Never	Never	Never
Sierra Leone	Always	Never	Never	Usually	Never	Never	Never
South Africa	Half the time	Usually	Half the time	Usually	Never	Never	Never
Sudan	Never	Usually	Usually	Half the time	Never	Never	Never
Swaziland	Usually	Occasionally	Half the time	Always	Occasionally	Never	Never
Tanzania	Never	Half the time	Never	Occasionally	Never	Never	Never
Tunisia	Always	Always	Always	Always	Never	Never	Always
Uganda	Occasionally	Occasionally	Never	Occasionally	Never	Never	Never
Zimbabwe	Usually	Half the time	Never	Usually	Never	Never	Never



Actual Availability: Indian States

state	Actual Availability						
	Codeine	MoIR	MoCR	MoINJ	OciR	MethPO	FentTD
All NE States	Usually	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
Bihar	Never	Occasionally	Never	Occasionally	Never	Never	Occasionally
Delhi Region	Always	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
Goa	Always	Occasionally	Never	Occasionally	Never	Never	Occasionally
Gujarat	Always	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
Haryana	Always	Occasionally	Never	Occasionally	Never	Never	Occasionally
Jammu and Kashmir	Never	Occasionally	Occasionally	Occasionally	Never	Never	Never
Jharkhand	Usually	Never	Never	Never	Never	Never	Occasionally
Karnataka	Usually	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
Kerala	Always	Occasionally	Occasionally	Occasionally	Occasionally	Never	Occasionally
Madhya Pradesh	Always	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
Maharashtra	Always	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
Orissa (Odisha)	Never	Occasionally	Never	Occasionally	Never	Never	Occasionally
Punjab	Always	Occasionally	Never	Occasionally	Never	Never	Occasionally
Rajasthan	Always	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
Tamil Nadu	Always	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
Tripura	Always	Occasionally	Occasionally	Never	Never	Never	Never
Uttar Pradesh	Always	Occasionally	Occasionally	Occasionally	Never	Never	Occasionally
West Bengal	Usually	Occasionally	Occasionally	Occasionally	Occasionally	Never	Occasionally



Eligibility Restrictions (Patient permits)

Eligibility Restrictions: Africa + ME

Country	Eligibility Restriction		
	Outpatients	Inpatients	Hospice
Algeria	always	only with special authorization	only with special authorization
Botswana	always	always	never
Cote D'Ivoire	always	always	always
Ethiopia	only with special authorization	only with special authorization	only with special authorization
Ghana	only with special authorization	only with special authorization	always
Kenya	only with special authorization	only with special authorization	always
Liberia	only with special authorization	only with special authorization	never
Madagascar	only with special authorization	always	always
Malawi	always	always	always
Mauritius	always	always	always
Morocco	only with special authorization	only with special authorization	only with special authorization
Mozambique	always	always	never
Namibia	only with special authorization	only with special authorization	only with special authorization
Nigeria	always	always	always
Rwanda	only with special authorization	only with special authorization	only with special authorization
Sierra Leone	only with special authorization	only with special authorization	only with special authorization
South Africa	only with special authorization	only with special authorization	always
Sudan	only with special authorization	only with special authorization	never
Swaziland	only with special authorization	only with special authorization	only with special authorization
Tanzania	always	always	always
Tunisia	only with special authorization	only with special authorization	only with special authorization
Uganda	only with special authorization	only with special authorization	always
Zimbabwe	always	always	always

Country	Eligibility Restriction		
	Outpatients	Inpatients	Hospice
Afghanistan	only with special authorization	only with special authorization	only with special authorization
Egypt	only with special authorization	only with special authorization	only with special authorization
Iran	never	only with special authorization	only with special authorization
Iraq	never	only with special authorization	never
Israel	always	always	always
Lebanon	only with special authorization	always	only with special authorization
Libya	only with special authorization	always	only with special authorization
Morocco	always	always	always
Oman	only with special authorization	only with special authorization	never
Palestine	only with special authorization	only with special authorization	never
Qatar	only with special authorization	only with special authorization	never
Saudi Arabia	only with special authorization	always	only with special authorization
Syria	only with special authorization	only with special authorization	only with special authorization
Yemen	only with special authorization	only with special authorization	never

always	always
only with special authorization	Only with special authorization
never	never

Eligibility Restrictions : Asia + Indian States

	Eligibility Restriction		
Country	Outpatients	Inpatients	Hospice
Afghanistan	never	always	always
Bangladesh	always	always	always
Bhutan	always	always	always
Cambodia	always	always	always
China	always	always	always
China-Hong Kong	always	always	always
Indonesia	always	always	always
Japan	always	always	always
Kazakhstan	always	always	always
Korea (South)	always	always	always
Laos	always	always	never
Malaysia	always	always	always
Mongolia	always	always	always
Myanmar	always	always	always
Nepal	always	always	always
Pakistan	always	always	always
Philippines	always	always	always
Sri Lanka	always	always	always
Thailand	always	always	always
Vietnam	always	always	never

	Eligibility Restriction		
State	Outpatients	Inpatients	Hospice
All NE States	always	always	always
Bihar	always	always	always
Delhi Region	always	always	always
Goa	always	always	always
Gujarat	always	always	always
Haryana	always	always	always
Jammu and Kashmir	always	always	always
Jharkhand	always	always	always
Karnataka	always	always	always
Kerala	always	always	always
Madhya Pradesh	always	always	always
Maharashtra	always	always	always
Orissa (Odisha)	always	always	always
Punjab	always	always	always
Rajasthan	always	always	always
Tamil Nadu	always	always	always
Tripura	always	always	always
Uttar Pradesh	always	always	always
West Bengal	always	always	always

always
Only with special authorization
never


Restrictions of prescribing authority

Prescription Privileges: Africa

Country	Prescriber privileges				
	Oncologist	FamilyDoc	Surgeon	Nurse	Pharmacist
Algeria	always	Only in emergency	Only in emergency	never	never
Botswana	always	always	always	never	never
Cote D'Ivoire	always	always	always	never	never
Ethiopia	always	always	always	never	never
Ghana	always	always	always	never	Only in emergency
Kenya	always	always	always	Only with special permit or authorization	Only with special permit or authorization
Liberia	Only with special permit or authorization	Only with special permit or authorization	Only with special permit or authorization	never	never
Madagascar	always	Only with special permit or authorization	Only with special permit or authorization	Only in emergency	Only in emergency
Malawi	always	always	always	Only in emergency	never
Mauritius	always	Only in emergency	Only in emergency	never	never
Morocco	Only with special permit or authorization	Only with special permit or authorization	Only with special permit or authorization	never	never
Mozambique	always	always	always	never	never
Namibia	always	always	always	never	never
Nigeria	always	always	always	never	never
Rwanda	always	Only with special permit or authorization	Only with special permit or authorization	never	never
Sierra Leone	always	Only with special permit or authorization	Only with special permit or authorization	Only with special permit or authorization	Only with special permit or authorization
South Africa	always	always	always	never	never
Sudan	always	Only with special permit or authorization	always	Only in emergency	Only in emergency
Swaziland	always	always	always	never	never
Tanzania	always	always	always	Only with special permit or authorization	Only in emergency
Tunisia	always	always	always	never	never
Uganda	always	always	always	Only with special permit or authorization	never
Zimbabwe	always	always	always	never	never

 always

 Only in emergency


 Only with special permit or authorization

 never

Prescription Privileges: Indian States

State	Prescriber privileges				
	Oncologist	Family Doc	Surgeon	Nurse	Pharmacist
All NE States					
Bihar					
Delhi Region					
Goa					
Gujarat					
Haryana					
Jammu and Kashmir					
Jharkhand					
Karnataka					
Kerala					
Madhya Pradesh					
Maharashtra					
Orissa (Odisha)					
Punjab					
Rajasthan					
Tamil Nadu					
Tripura					
Uttar Pradesh					
West Bengal					

 always

 Only with special permit or authorization

 Only in emergency

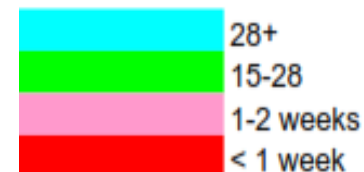
 never

Prescription restriction:
Number of days supply
that can be prescribed

Days allowed/prescription: Africa + Indian States

Country	Max Days Opioids Supplied
Algeria	30
Botswana	30
Cote D'Ivoire	7
Ethiopia	Physician discretion
Ghana	2
Kenya	14
Liberia	7
Madagascar	7
Malawi	14
Mauritius	10
Morocco	7
Mozambique	30
Namibia	
Nigeria	30
Rwanda	
Sierra Leone	Physician discretion
South Africa	30
Sudan	15
Swaziland	30
Tanzania	10
Tunisia	28
Uganda	30
Zimbabwe	30

state	Max Days Opioids Supplied
All NE States	3
Bihar	30
Delhi Region	30
Goa	Physician discretion
Gujarat	30
Haryana	30
Jammu and Kashmir	15
Jharkhand	60
Karnataka	30
Kerala	30
Madhya Pradesh	30
Maharashtra	Physician discretion
Orissa (Odisha)	30
Punjab	30
Rajasthan	30
Tamil Nadu	30
Tripura	6
Uttar Pradesh	30
West Bengal	21



Prescription restriction:
Increased bureaucratic
burden with multiple copies or
special forms

Prescription forms: Africa + Indian States

Prescription forms				
Country	Duplicate or Triplicate	Special Prescr Forms	ready access to forms	Pay for forms
Algeria	restrictive	restrictive	restrictive	not restrictive
Botswana	not restrictive	not restrictive		
Cote D'Ivoire	restrictive	restrictive	restrictive	not restrictive
Ethiopia	restrictive	restrictive	restrictive	not restrictive
Ghana	not restrictive	not restrictive		
Kenya	restrictive	restrictive	not restrictive	not restrictive
Liberia	not restrictive	not restrictive		
Madagascar	restrictive	restrictive	restrictive	not restrictive
Malawi	restrictive	restrictive	restrictive	not restrictive
Mauritius	restrictive	restrictive	restrictive	not restrictive
Morocco	not restrictive	restrictive	restrictive	not restrictive
Mozambique	restrictive	not restrictive		
Namibia	restrictive	restrictive	not restrictive	not restrictive
Nigeria	restrictive	not restrictive		
Rwanda	restrictive	not restrictive		
Sierra Leone	not restrictive	restrictive	restrictive	restrictive
South Africa	not restrictive	not restrictive		
Sudan	not restrictive	restrictive	restrictive	not restrictive
Swaziland	restrictive	not restrictive		
Tanzania	restrictive	restrictive	restrictive	not restrictive
Tunisia	restrictive	restrictive	not restrictive	restrictive
Uganda	restrictive	not restrictive		
Zimbabwe	not restrictive	restrictive	restrictive	not restrictive

Prescription forms				
state	Duplicate or Triplicate	Special Prescr Forms	ready access to forms	Pay for forms
All NE States	restrictive	not restrictive		
Bihar	not restrictive	restrictive	not restrictive	not restrictive
Delhi Region	restrictive	restrictive	not restrictive	not restrictive
Goa	not restrictive	not restrictive		
Gujarat	not restrictive	not restrictive		
Haryana	not restrictive	restrictive	not restrictive	not restrictive
Jammu and Kashmir	not restrictive	not restrictive		
Jharkhand	restrictive	restrictive	restrictive	not restrictive
Karnataka	restrictive	not restrictive		
Kerala	restrictive	restrictive	restrictive	restrictive
Madhya Pradesh	not restrictive	restrictive	not restrictive	not restrictive
Maharashtra	restrictive	not restrictive		
Orissa (Odisha)	not restrictive	restrictive	not restrictive	not restrictive
Punjab	not restrictive	restrictive	not restrictive	not restrictive
Rajasthan	restrictive	restrictive	not restrictive	not restrictive
Tamil Nadu	not restrictive	restrictive	not restrictive	not restrictive
Tripura	restrictive	restrictive	not restrictive	not restrictive
Uttar Pradesh	not restrictive	not restrictive		
West Bengal	restrictive	not restrictive		

restrictive
 not restrictive

Pharmacist restrictions

Pharmacist Restrictions: Afrtica + Indian states

	Pharmacist restrictions	
	Pharmacists accept emergency telephone/fax prescriptions	Pharmacists may correct tech errors
Country		
Algeria	No	Yes
Botswana	Yes	Yes
Cote D'Ivoire	No	No
Ethiopia	No	Yes
Ghana	No	No
Kenya	No	No
Liberia	No	Yes
Madagascar	No	No
Malawi	No	Yes
Mauiritius	No	No
Morocco	No	Yes
Mozambique	No	No
Namibia	Yes	Yes
Nigeria	No	Yes
Rwanda	No	No
Sierra Leone	No	No
South Africa	Yes	No
Sudan	No	Yes
Swaziland	No	Yes
Tanzania	No	No
Tunisia	No	No
Uganda	No	Yes
Zimbabwe	No	Yes

	Pharmacist restrictions	
	Pharmacists accept emergency telephone/fax prescriptions	Pharmacists may correct tech errors
State		
All NE States	No	No
Bihar	No	No
Delhi Region	No	Yes
Goa	No	No
Gujarat	Yes	No
Haryana	No	Yes
Jammu and Kashmir	No	No
Jharkhand	No	No
Karnataka	No	No
Kerala	No	No
Madhya Pradesh	No	No
Maharashtra	No	No
Orissa (Odisha)	No	No
Punjab	No	Yes
Rajasthan	No	No
Tamil Nadu	No	No
Tripura	No	Yes
Uttar Pradesh	No	No
West Bengal	No	No

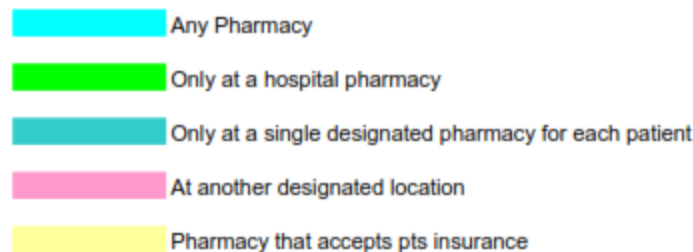
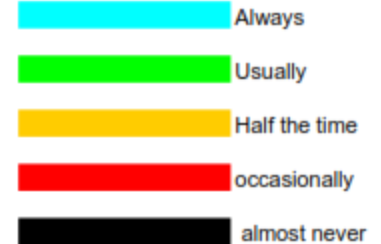
 Yes

 No

Dispensing restrictions

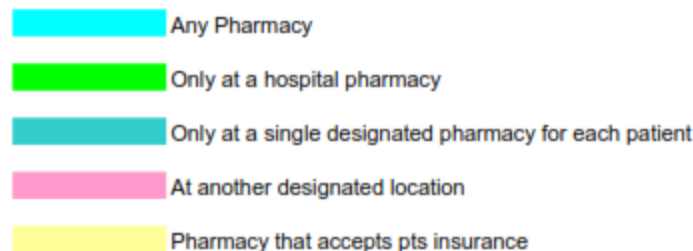
Dispensing: Africa

Country	Dispensing Pharmacy	
	Dispensing pharmacy restrictions	Access to dispensng pharmacy
Algeria		
Botswana		
Cote D'Ivoire		
Ethiopia		
Ghana		
Kenya		
Liberia		
Madagascar		
Malawi		
Mauiritius		
Morocco		
Mozambique		
Namibia		
Nigeria		
Rwanda		
Sierra Leone		
South Africa		
Sudan		
Swaziland		
Tanzania		
Tunisia		
Uganda		
Zimbabwe		



Dispensing: Indian States

	Dispensing Pharmacy		
state	Dispensing pharmacy restrictions		Access to dispensing pharmacy
All NE States			
Bihar			
Delhi Region			
Goa			
Gujarat			
Haryana			
Jammu and Kashmir			
Jharkhand			
Karnataka			
Kerala			
Madhya Pradesh			
Maharashtra			
Orissa (Odisha)			
Punjab			
Rajasthan			
Tamil Nadu			
Tripura			
Uttar Pradesh			
West Bengal			



Negative laws regarding
medical use of opioids

Laws: Africa + Indian States

	Laws	
Country	Negative language in drug laws	Driving forbidden
Algeria		
Botswana		
Cote D'Ivoire		
Ethiopia		
Ghana		
Kenya		
Liberia		
Madagascar		
Malawi		
Mauritius		
Morocco		
Mozambique		
Namibia		
Nigeria		
Rwanda		
Sierra Leone		
South Africa		
Sudan		
Swaziland		
Tanzania		
Tunisia		
Uganda		
Zimbabwe		

	Laws	
state	Negative language in drug laws	Driving forbidden
All NE States		
Bihar		
Delhi Region		
Goa		
Gujarat		
Haryana		
Jammu and Kashmir		
Jharkhand		
Karnataka		
Kerala		
Madhya Pradesh		
Maharashtra		
Orissa (Odisha)		
Punjab		
Rajasthan		
Tamil Nadu		
Tripura		
Uttar Pradesh		
West Bengal		

 No
 Yes

Summary

Summary Slides: Formulary

Country	WHO essential drug compliance (X/4)	IAHPC essential drug compliance (X/7)
China	4	7
Malaysia	4	7
Philippines	4	7
China-Hong Kong	4	6
Korea (South)	4	6
Thailand	4	6
Vietnam	4	6
Indonesia	4	5
Japan	4	5
Mongolia	4	5
Nepal	4	5
Cambodia	4	4
Sri Lanka	4	4
Bhutan	3	3
Pakistan	3	3
Bangladesh	2	3
Myanmar	2	3
Afghanistan	2	2
Kazakhstan	1	2
Laos	1	1

State	WHO essential drug compliance (X/4)	IAHPC essential drug compliance (X/7)
Kerala	4	7
West Bengal	4	7
All NE States	4	6
Delhi Region	4	5
Gujarat	4	5
Karnataka	4	5
Madhya Pradesh	4	5
Maharashtra	4	5
Rajasthan	4	5
Tamil Nadu	4	5
Uttar Pradesh	4	5
Haryana	3	4
Jharkhand	3	4
Punjab	3	4
Tripura	3	4
Jammu and Kashmir	3	3
Bihar	2	3
Goa	2	3
Orissa (Odisha)	2	3

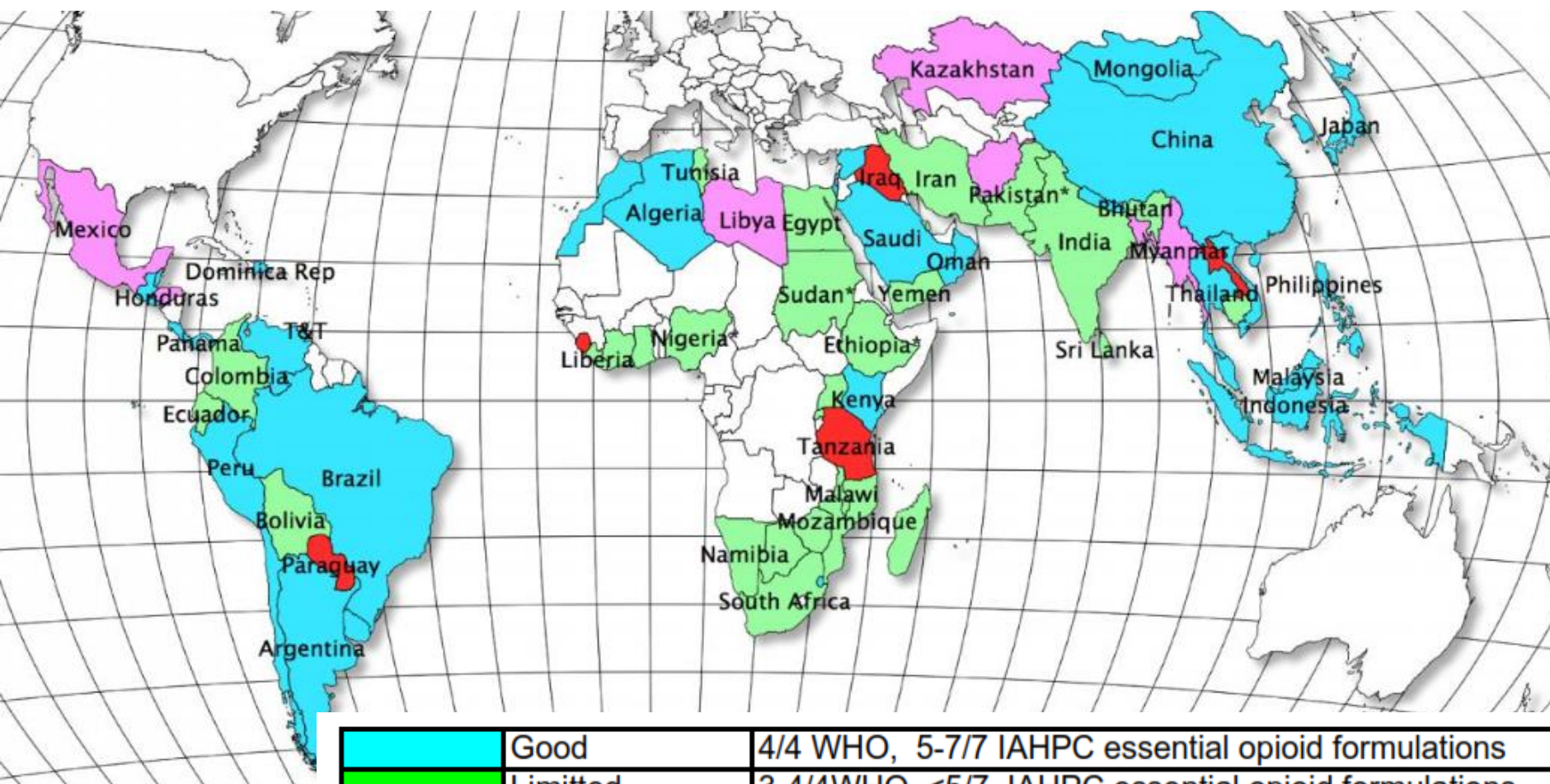
Country	WHO essential drug compliance (X/4)	IAHPC essential drug compliance (X/7)
Argentina	4	7
Dominican Republic	4	7
Guatemala	4	7
Venezuela	4	7
Barbados	4	6
Brazil	4	6
Chile	4	6
Costa Rica	4	6
Panama	4	6
Peru	4	6
Belize	4	5
Jamaica	4	5
St. Lucia	4	5
Uruguay	4	5
Anguilla	3	5
Bolivia	3	4
Colombia	3	4
El Salvador	3	4
Trinidad & Tobago	3	4
Ecuador	3	3
Mexico	2	4
Honduras	2	3
Paraguay	1	2
Dominica	1	1

	Good
	Limited
	Very Limited
	Poor

Country	WHO essential drug compliance (X/4)	IAHPC essential drug compliance (X/7)
Algeria	4	6
Mauritius	4	6
Kenya	4	5
Madagascar	4	5
Morocco	4	5
Swaziland	4	5
Botswana	4	4
Ghana	4	4
Mozambique	4	4
Namibia	4	4
Nigeria	4	4
South Africa	4	4
Liberia	3	5
Tunisia	3	4
Cote D'Ivoire	3	3
Ethiopia	3	3
Malawi	3	3
Rwanda	3	3
Sudan	3	3
Uganda	3	3
Zimbabwe	3	3
Tanzania	2	2
Sierra Leone	2	2

Country	WHO essential drug compliance (X/4)	IAHPC essential drug compliance (X/7)
Israel	4	7
Qatar	4	7
Saudi Arabia	4	7
Morocco	4	6
Syria	4	6
Oman	4	5
Iran	3	6
Egypt	3	4
Lebanon	3	4
Palestine	3	4
Yemen	3	4
Afghanistan	2	3
Libya	2	3
Iraq	2	2

Africa, Asia, Middle East, Latin America, Caribbean, India : Formulary.



	Good	4/4 WHO, 5-7/7 IAHPC essential opioid formulations
	Limited	3-4/4WHO, <5/7 IAHPC essential opioid formulations
	Very Limited	2/4 WHO essential opioid formulations
	Poor	1/4 WHO essential opioid formulations
	Not reported in this study	

Restrictive regulations summary: Africa

Country	Eligibility Restriction	Physician Prescriber Restrictions	No emergency prescriptions by Fx/Phone or non medical prescribing	Limited prescription duration	No pharmacist authority to correct prescription	Increase bureaucratic burden of prescriptions	Restricted dispensing sites	Negative language in laws	Number of restrictive domains (N/8)
Botswana							Yes	Yes	2
Namibia						Yes	Yes		2
South Africa	Yes				Yes				2
Ethiopia	Yes					Yes		Yes	3
Zimbabwe			Yes			Yes		Yes	3
Swaziland	Yes		Yes			Yes			3
Malawi				Yes		Yes	Yes	Yes	4
Mozambique			Yes		Yes	Yes	Yes		4
Nigeria			Yes			Yes	Yes	Yes	4
Uganda	Yes					Yes	Yes	Yes	4
Tunisia	Yes		Yes		Yes	Yes			4
Algeria	Yes	Yes	Yes			Yes	Yes		5
Cote D'Ivoire			Yes	Yes	Yes	Yes	Yes	Yes	5
Ghana	Yes			Yes	Yes		Yes	Yes	5
Kenya	Yes			Yes	Yes	Yes		Yes	5
Liberia	Yes	Yes	Yes	Yes		Yes	Yes		5
Sudan	Yes	Yes				Yes	Yes	Yes	5
Tanzania				Yes	Yes	Yes	Yes	Yes	5
Madagascar	Yes	Yes		Yes	Yes	Yes	Yes		6
Morocco	Yes	Yes	Yes	Yes		Yes	Yes		6
Rwanda	Yes	Yes	Yes		Yes	Yes		Yes	6
Sierra Leone	Yes	Yes			Yes	Yes	Yes	Yes	6
Mauritius		Yes	Yes	Yes	Yes	Yes	Yes	Yes	7

Restrictive regulations summary: M.E.

[illegible]

Restrictive regulations summary: Lat Am +Caribbean

[illegible]

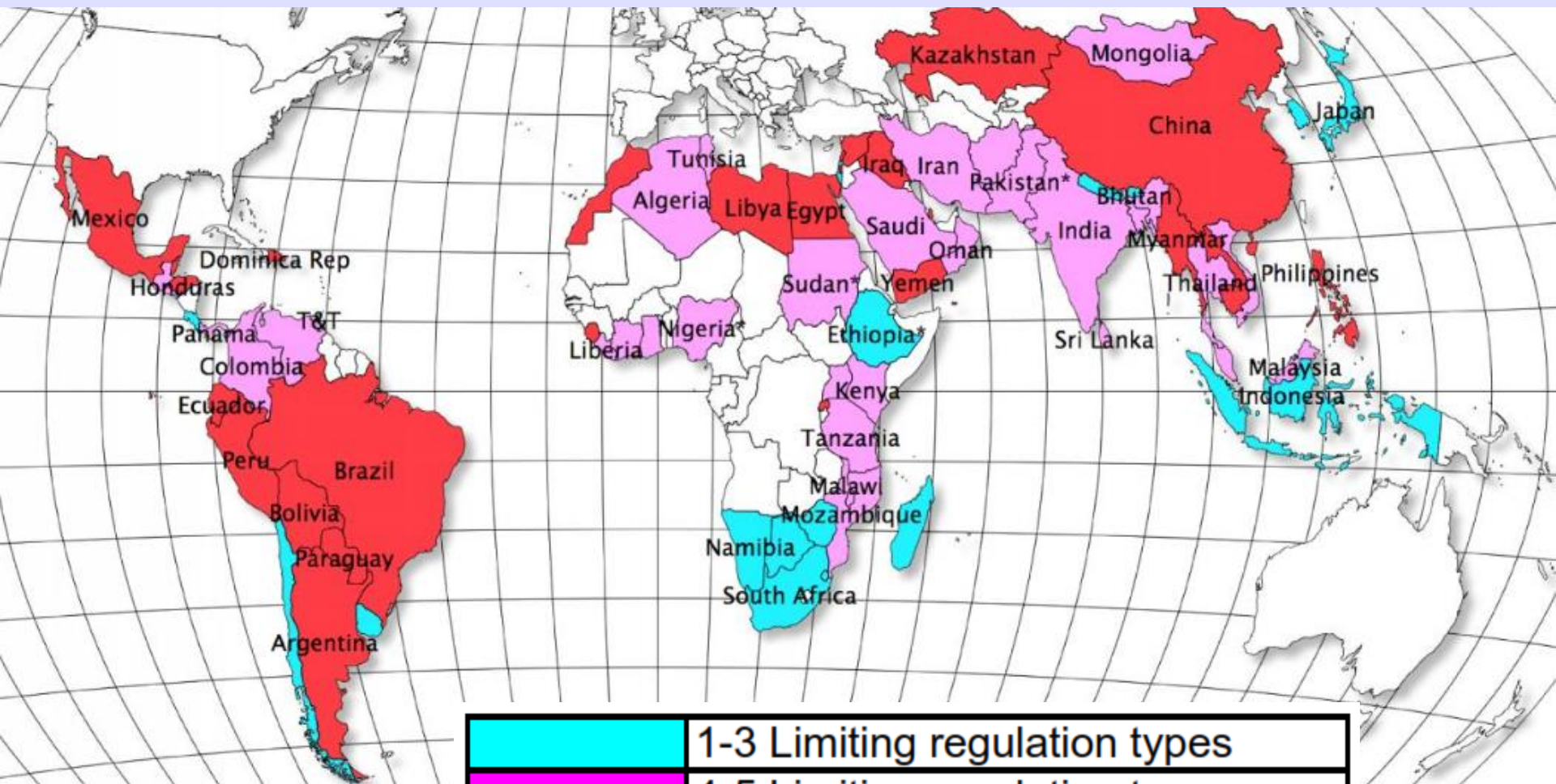
Restrictive regulations summary: Asia

[illegible]

Restrictive regulations summary: Indian States

[illegible]

Africa, Asia, Middle East, Latin America, Caribbean, India: Regulatory Restrictions



	1-3 Limiting regulation types
	4-5 Limiting regulation types
	6-8 Limiting regulation types
	Not reported in this study

Global Opioid Policy Initiative: 10-point action plan

- Education: undergrad post grad.
- Formulary restrictions: Essential Opioids
- Physician prescribers: Remove restrictions
- Patient restrictions: Remove restrictions
- Prescription limits: at least 1 month
- Prescription forms
- Pharmacists: authority to correct errors
- Monitoring of prescription forms .
- Emergency prescribing
- Supplementary prescribers