



## Laws for Preimplantation Genetic Diagnosis Worldwide

Continued

How ART is governed	Country	PGD allowed/used					PGD for embryo screening (aneuploidy)				
		Allowed	N/allowed	N/mentioned	Used	N/used	Allowed	N/allowed	N/mentioned	Used	N/used
	Italy	+			+		+			+	
	Korea	+			+				+	+	
	Kosovo			+	+				+		+
	Kuwait	+			+		+				
	Latvia			+	+				+	+	
	Libya	+				+	+				+
	Montenegro	+				+	+				+
	Netherlands	+			+		+			+	
	Norway	+				+		+			+
	Portugal	+			+		+				+
	Romania	+			+						+
	Russia	+			+		+			+	
	Slovakia	+			+		+			+	
	Slovenia	+			+				+		+
	South Africa			+	+				+	+	
	Spain	+			+		+			+	
	Sweden	+			+		+			+	
	Switzerland		+					+			+
	Taiwan	+			+		+			+	
	Tunisia	+				+			+		+
	Turkey	+			+		+			+	
	UK	+			+		+			+	
	USA			+	+				+	+	
	Vietnam			+		+			+		+
Guidelines	Argentina			+	+				+	+	
	Australia	+			+		+			+	



Continued

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		Allowed	N/allowed	N/mentioned	Used	N/used	Allowed	N/allowed	N/mentioned	Used	N/used
	Austria			+		+	+				+
	Belarus			+	+				+		+
	Belgium			+	+				+		+
	Chile		+			+		+			+
	China		+		+				+		+
	Croatia			+		+			+		+
	Cuba	+				+	+				+
	Egypt	+			+				+		+
	Ghana	+				+	+				+
	Hong Kong			+	+				+		
	India	+			+		+				+
	Iran	+			+		+				+
	Ireland			+		+			+		+
	Ivory Coast		+			+			+		+
	Japan	+			+		+				+
	Kuwait			+	+				+		+
	Libya			+		+			+		+
	Malaysia			+	+				+		+
	Mexico	+			+		+				+
	Netherlands			+	+				+		+
	NewZealand	+			+		+				+
	Nigeria	+				+	+				+
	Pakistan	+			+		+				+
	Philippines		+			+		+			+
	Poland	+			+		+				+
	Saudi Arabia	+			+		+				+
	Serbia	+				+	+				+



Continued

How ART is governed	Country	PGD allowed/used					PGD for embryo screening (aneuploidy)				
		Allowed	N/allowed	N/mentioned	Used	N/used	Allowed	N/allowed	N/mentioned	Used	N/used
None	Singapore	+			+		+			+	
	South Africa	+			+			+		+	
	Spain	+			+		+			+	
	SriLanka					+			+		+
	Thailand	+			+		+			+	
	Ukraine	+			+		+			+	
	USA	+			+		+			+	
	Venezuela	+		+	+		+			+	
	Vietnam			+	+				+		+
	Bangladesh				+						+
	Bosnia					+					+
	BurkinaFaso					+					+
	Camaroon					+					+
	Columbia				+					+	
	Congo					+					+
	Dem Rep Congo x					+					+
	DominicanRep					+					+
	Ecuador					+					+
	EISalvador					+					+
	Ethiopia					+					+
	Jamaica					+					+
	Jordan					+					+
	Kenya						+				+
	Kuwait					+					+
	Lebanon					+				+	
	Libya					+				+	



Continued

How ART is governed	Country	PGD allowed/used					PGD for embryo screening (aneuploidy)				
		Allowed	N/allowed	N/mentioned	Used	N/used	Allowed	N/allowed	N/mentioned	Used	N/used
	Lithuania					+					+
	Mali					+					+
	Morocco					+					+
	Namibia					+					+
	Nepal					+					+
	Panama				+				+		
	Paraguay					+					+
	Peru				+				+		
	Senegal					+					+
	Sudan					+					+
	Swaziland					+					+
	Togo					+					+
	Trinidad/Tobago					+					+
	Tobago										+
	Uganda					+					+
	Uruguay				+				+		
	Zimbabwe					+					+

N/allowed: Not allowed; N/mentioned: Not mentioned; N/used: Not used



**Preimplantation genetic diagnosis**

How ART is governed	Country	Comments
By statute	Albania	No good genetic laboratory for PGD exists
	Austria	Polar body diagnosis only
	Belgium	Only 8 medical genetic centres are licensed so all PGD must be performed in these larger centres
	Columbia	Blastomeres are sent out of the country for FISH
	Denmark	Permitted only for specific diseases
	Finland	Centralized in Helsinki University Hospital and some private laboratories
	Germany	Polar body diagnosis only
	Greece	Consent required and specific licence and approval required from authority
	Hungary	Approval by Ethical Committee is required
	Korea	Approved only for specific genetic diseases
	Latvia	Practised in only one or two clinics
	Netherlands	Only one licenced centre exists
	Norway	No clinic is licenced so patients must be sent abroad for PGD
	Russia	Ministry of Health is involved. Used only for translocations and single gene disorders
	Slovenia	Used only for severe hereditary disorders
	Switzerland	Although not allowed today a law permitting its use is under consideration
	Taiwan	Not allowed for gender selection
	UK	Performed only in licensed centres
	USA	Widely practised
By guidelines	Belarus	Done in cooperate with colleagues from RGI in Chicago, Russia and Ukraine
	Chile	Only polar body biopsy
	India	Not allowed for sex selection unless for sex- linked disorders
	Ireland	Referred for PGD outside of Ireland
	Japan	Need approval of Ethical Committee of Japanese Society of Obstetrics and Gynecology (JSOG)
	Kuwait	Some units have developed guidelines for PGD
	Mexico	Done in some clinics but no written permission exists
	Nigeria	Done at Medical ART Centre in collaboration with centres in India and USA
	Philippines	Resistance to PGD rests in disposition of embryos that test positive
Poland	Done in two programmes	



**Preimplantation diagnosis**

How ART is governed	Country	Comments
	Saudi Arabia	Done in few centres
	Thailand	Done for alpha and beta thalassemia in three centres
	USA	PGD is considered experimental. PGD for single gene defects and selected chromosomal problems (e.g. translocation) is recognized as clinically useful and not experimental.

**Preimplantation genetic diagnosis for embryo screening**

How ART is governed	Country	Comment
By statute	Abu Dhabi	Very limited use
	Belgium	Very limited use
	Finland	Very limited use
	Greece	Approval required by licensing authority
	Latvia	Very limited use
	Netherlands	Restricted to research programmes. More general use stopped after recent reports that it is ineffective
	Russia	Ministry of Health is involved. Used in women over 35 and for repeated IVF failures
	Spain	Used for screening but without alterations that may impair development
	Sweden	Very limited use
	Taiwan	In repeated IVF failures and for hereditary diseases, but not for sex selection
	UK	Performed only in licenced centres
	USA	Much less widely used in past 2 years because of recent evidence concluding it is not effective
	By guidelines	Austria
Chile		Restricted by federal legislature
India		Performed in few centres
Japan		Need approval of Ethical Committee of JSOG
Kuwait		Done in few centres
Mexico		Seldom done
Philippines		Not done
Poland		Done in only one centre
Saudi Arabia		Done in few centres for selected patients with IVF failure or repeat abortions
Singapore		PGS carried out as research programme in one centre only
Thailand		Done in several centres
USA		PGS for aneuploidy screening is considered experimental. Much less widely used since 2008.



**IVFClinics**  
**Worldwide**

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