

*Guidelines to be followed by centres, services and units in order to be designated as Reference Centres, Services and Units of the National Health System as agreed by the Interterritorial Board*

**19. HEART AND LUNG TRANSPLANTATION IN ADULTS**

*A. Rationale for the proposal*

▶ Epidemiological data on recommendation for heart and lung transplantation.	In Spain, recommendation for heart and lung transplantation is 0.2 per million population. In 2006 in particular there were 8 transplantations indicated in adults.
▶ Data on the use of the procedure.	In Spain, heart and lung transplant activity during 2006 consisted of 7 transplants (0.2 transplantations per million population).

*B. Guidelines to be followed by Centres, Services and Units in order to be designated as Reference Centres, Services and Units for heart and lung transplantation in adults.*

<p>▶ Experience of the Reference Centres, Services and Units:</p> <p>- Activity:</p> <ul style="list-style-type: none"> <li>• Number of procedures (minimum and optimal) that should be performed in a year to ensure an adequate care.</li> </ul>	<ul style="list-style-type: none"> <li>- Having had heart and lung transplantation activity in the last 5 years and having performed at least 10 heart and lung transplants since the beginning of the programme.</li> <li>- In addition, there must be a heart and lung transplant programme with a minimum of 15 transplants per year and a heart transplantation programme with a minimum of 15 transplants per year.</li> </ul>
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<p>- Other data: research on the subject, postgraduate teaching, continuing training, etc.</p>	<p>- Hospital with undergraduate medical teaching programme. - Hospital with a standardized continuing training programme and unit participation in the undergraduate teaching programme and in the internship and residency programme of the centre.</p>
<p>► Specific resources of the Reference Centres, Services and Units:</p> <p>- Human resources required for adequate care of heart and lung transplantation.</p> <p>Professional experience<sup>a</sup>:</p> <p>- Specific equipment required for adequate care.</p>	<p>In addition to those generically mentioned for authorization according to Royal Decree 2070/1999, December 30<sup>th</sup>, establishing the general basis for clinical harvesting and use of human organs and the territorial coordination in donation and transplantation of organs and tissues, the centre must have the following human resources:</p> <p>- 6 surgeons (3 cardiac and 3 thoracic) + 1 cardiologists + 1 pulmonologist available at all times, with the basic education specified below.</p> <p>Experience of, at least, 5 years in lung and heart transplant surgery for:</p> <ul style="list-style-type: none"> <li>- medical team.</li> <li>- surgical team.</li> <li>- anaesthesia, reanimation and intensive care team.</li> <li>- perfusionist</li> </ul> <p>In addition to those generically mentioned for authorization according to Royal Decree 2070/1999, December 30<sup>th</sup>, establishing the general basis for clinical harvesting and use of human organs and the territorial coordination in donation and transplantation of organs and tissues, the centre must have:</p> <ul style="list-style-type: none"> <li>- Perfusion team for extracorporeal circulation.</li> <li>- Availability of interventional bronchoscopy.</li> </ul>
<p>► Procedure and clinical results indicators of the Reference Centres, Services and Units <sup>b</sup>:</p>	<p><b>The indicators will be agreed with the Units that will be designated.</b></p>
<p>► Existence of an adequate IT system</p>	<p>Participation in the Spanish Registry for Lung Transplantation<sup>4</sup>, providing data from the</p>

(Type of data that the IT system must include to allow identification of the activity and evaluation of the quality of the services provided)	International Registry for Heart and Lung Transplantation <sup>5</sup> , and completion of the required variables for calculation of activity and result indicators.  - The unit must have the required data which should be sent to the Spanish National Health Service Reference Centres, Services and Units Appointment Commission Secretariat for yearly reference unit monitoring.
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<sup>a</sup> Experience will be accredited by certification from the hospital manager.

<sup>b</sup> Clinical results standards, agreed to by the experts group, will be assessed, initially by the Appointment Commission, while in the qualification process, as more information from the Reference Centres, Services and Units is being obtained. Once qualified by the Appointment Commission, the Quality Agency will authorize its compliance, as for the rest of guidelines.

### **Bibliography:**

1. Memoria de actividad de trasplante cardiaco y pulmonar 2006. (2006 Heart and lung transplantation activity report). Available at: URL: [http://www.ont.es/Estadistica?id\\_nodo=19&accion=0&&keyword=&auditoria=F](http://www.ont.es/Estadistica?id_nodo=19&accion=0&&keyword=&auditoria=F).
2. Memoria de actividad. Trasplante cardiaco. Revista Española de Trasplantes 2006; July 15 (2): 81-98.
3. Memoria de actividad. Trasplante pulmonar. Revista Española de Trasplantes 2006; July 15 (2): 99-112.
4. Registro Español de Trasplante Pulmonar. (Spanish Registry for Lung Transplantation). In <http://www.ont.es/>.
5. Registro internacional de trasplante cardiaco y pulmonar. (International registry for heart and lung transplantation) <http://www.ishlt.org/>.