2018 at a glance

Activity remained similar to 2017 in this financial year, although the CatSalut action plan has been completed and non face-to-face activity has gradually increased. In 2018 we achieved an excellent level of fundraising and have been able to celebrate the success of the fundraising campaign for the SJD Paediatric Cancer Centre Barcelona (PCCB).

Our financial results was slightly positive, thanks to budgetary discipline, strong performance in International and Private Care activities and improvements in the financing system for specialised care services by CatSalut.

To consolidate our status as a point of reference on both an international and national scale, we have continued to develop positioning strategies based on highly specialised care, accreditations, partnerships and our firm commitment to teaching, research and innovation.

We have renovated and implemented various infrastructures, including the new PICU, the laying of the foundations of the PCCB and the start of work on the new children’s surgery block.

We closed the financial year with satisfaction and focusing on future challenges: the consolidation of the new financing system for specialised care services, the maintenance of a strong performance in International and Private Care activities, improvement of the environment for the nursing profession and completion of the building plan. We hope to achieve these objectives with the support of our human resources, as always, as well as the ideals and values of our institution.
The Acompanya’m centre is fully functioning
We manage the first residential and educational therapy unit in Catalonia, providing 30 places for children and young adults with mental health disorders and a high risk of social exclusion.

Successfully hit the target of 30 M€ #paralosvalientes
The #paralosvalientes [For the brave] campaign has managed to reach €30 million, the largest amount raised among Spanish civil society for a project of this kind.

Work has started on the new children’s surgery block
Work started on the new space in June; it will include 8 high tech operating theatres, with full data and imaging integration, CT scan and intraoperative magnetic resonance imaging.

The foetal surgery plan has been consolidated
Foetal surgery, a procedure that is part of a highly complex specialisation, is shaping the hospital as a stable circuit within the BCNatal framework. Our staff members have been key in the success of this project.

We are fostering international alliances
We have signed a collaboration agreement with the United Arab Emirates, following a public merit-based tender, which has made us a major ally for this country’s paediatric care in Europe.

New community-based alliances
We have created new alliances to improve community-based healthcare with Ad Salutem (for sleep disorders), Hospital La Fe in Valencia (cardiology), (CIMA) (diagnostic imaging) and Medical and Molecular Imaging Services (SIMM) (nuclear medicine for the future paediatric cancer centre).

New Paediatric Intensive Care Unit (PICU)
We have launched the new PICU with 24 cubicles and cutting-edge technology that has been designed to offer comprehensive care to both patients and their families.
European accreditation in CAR-T therapy
We are the first European centre to be accredited by Novartis to treat paediatric patients suffering from acute lymphoblastic leukaemia with relapse and no other potentially effective treatment options with CAR-T therapy.

The Paediatric Urology Unit, accredited as a Training Centre
The Joint Committee of Paediatric Urology has accredited the Paediatric Urology Unit as a Training Centre. There are 25 accredited centres in the European Union, only three of which are in Spain.

New Training Area Portal
The new portal enables users to enrol on courses, carry out knowledge dissemination activities and publish news, as well as being integrated with other Hospital management applications.

National Health System Good Practices
The Neonatology and Rheumatology Departments have received an award for good practices for their palliative care protocol and their transitional programme from paediatric to adult care.

New project at Lunsar Hospital
We have launched a nutritional rehabilitation project, funded by the Aurea Foundation, in the context of the twinning programme with Lunsar Hospital in Sierra Leone.

International Award for our bed management system
The International Hospital Federation has awarded a prize for our bed management system developed by staff at our centre, who established a predictive algorithm on the availability of beds 24 hours in advance.

Taking care of oneself to take care of others
We have implemented the 360° care programme for our staff, which envisages initiatives in the areas of nutrition, training, occupational health and social, psychological and physical wellbeing.
The new Paediatric Intensive Care Unit is functional

In June, a new Paediatric Intensive Care Unit (PICU) was launched, which has 24 individual rooms and cubicles and is equipped with cutting-edge technology. The new unit has been designed to offer comprehensive care to patients and their families, and to provide healthcare professionals with the spaces and resources they need to work in optimal conditions. The new PICU has a cubicle that is a negative pressure isolation room for the admission of patients with highly contagious infectious diseases, and two more have positive pressure for the care of patients with compromised immune systems. It also has a simulation cubicle in which staff members can practice techniques when faced with complex cases, before putting them into practice in a real-life scenario. The PICU also offers families a relaxation area and personal bathroom so they can feel more comfortable during their stay in the unit. The construction and equipment of the new PICU has been made possible thanks to the financial contribution of the Port Aventura Foundation.
Construction begins at the SJD Paediatric Cancer Centre Barcelona (PCCB)

On 18 October, work began on the SJD Paediatric Cancer Centre Barcelona, which is set to be one of the largest paediatric oncology centres in Europe. In 2018 reinforcement work on the building’s pillars for the two parking levels were finished and demolition work is currently taking place on the rear section of the building. The centre is due to be operational in the summer of 2020. Coinciding with the start of the work, the #paralosvalientes campaign ended, after achieving a fundraising target of €30 million. This is one of the largest amounts ever raised among Spanish civil society for a project of this kind. During the symbolic laying of the first stone, the donors helped to construct the words “PARA LOS VALIENTES” [For the brave] with 100,000 pieces of Lego.

Care extended in the Day Hospital

Day Hospital (DH) activity has grown significantly. Thus, the multipurpose DH, a service created in 2015, reached full operating capacity in 2018, with both morning and afternoon sessions, especially due to increased activity in the Oncology department. Likewise, the DH in mental health significantly increased activities as a result of a new service contracted by CatSalut and, particularly, due to the purchase of activity aimed at children with autism spectrum disorders (ASD).
Alliances to improve care

**Links with primary care**

We support primary healthcare in our referral area through the VINCLES programme. In 2018, the most important programme activity was:

- Organisation of protocol courses (transsexuality, paediatric emergencies, criteria for referral of Traumatology and Orthopaedic Surgery (T&O), child abuse and sexual abuse, approach to chronic patients).
- Support for ongoing training programmes in institutions that manage primary care in the Hospital’s referral area.
- Update of protocols on the VINCLES page on the Hospital’s website, publication of a sleep disorder monograph and two editions of the VINCLES electronic newsletter.
- First year of application of the referral criteria across levels for the specialties most in demand (ODN, OPHT, ENT, T&O and SD) and a quality evaluation.

**Links with hospitals and other health sector institutions**

In 2018, the relationships established with hospital centres including Hospital de Nostra Senyora de Meritxell in Andorra la Vella (and by extension the Servei Andorrà d’Atenció Sanitària (SAAS) in its complex), Hospital de Palamós, Hospital d’Igualada, Hospital de Sant Boi, Hospital San Rafael and Parc de Salut MAR have continued. In addition, new agreements have been strengthened with other existing partnerships:

- Hospital Clinic de Barcelona, with an agreement regarding its Clinical Immunology Functional Unit.
- Hospital Sant Pau, with its collaboration in paediatric endocrinology and cardiology matters.
- Hospital Universitari de Vic, with its collaboration in the field of paediatric nephrology.
- The Catalan Health Institute, with its partnerships with the Prat and l’Hospitalet de Llobregat Emergency Primary Care Centres (CUAP).
- The Catalan Institute of Oncology (ICO), with the conduct of a breast cancer screening programme in Sant Feliu de Llobregat and the preparation of products containing genetically modified organisms (GMO).
ECHO Project

The HSJD is a founding member of the European Children’s Hospitals Organisation (ECHO), the goal of which is to guarantee access for children to better quality healthcare, following the comparative evaluation of the clinical activity of its members (in Barcelona, Dublin, Florence, Helsinki, London, Munich, Paris, Petach-Tikva [Israel] Rotterdam and Warsaw).

In 2018, the ECHO participated in the 4th “European Reference Networks” conference with the aim of providing support to European clinical networks dedicated to rare diseases and giving more visibility to the role of paediatric hospitals in Europe.

"Fòrum Pediàtric" programme

We have progressed in the consolidation of international alliances in the framework of the "Fòrum pediàtric" programme. As a result, an agreement has been signed to provide support to Cocody University Hospital in the Ivory Coast.

The first activity has been carried out with Hospital Universitario Austral in Argentina and during the month of October, five doctors from our hospital participated in a medical exchange experience involving paediatrics at this South American hospital.

With regards the collaborative project in the construction of a paediatric surgery centre in Algiers, the Algerian managers obtained the building permits in 2018 and it is planned that the building project will be formalised in 2019.
Results

+8,8% Day Hospital sessions

+3,9% major outpatient surgery (MOS)

+6,6% Surgeries

26 Foetal surgeries

12,095 patients with rare diseases

new cases of cancer in children

+27%

9 ERN

642 international patients

13,8% non-face-to-face outpatient activity relative to face-to-face activity

97,5% patient loyalty

8,94 satisfaction (PLAENSA)

Over 30 awards granted to hospital professionals and departments
Research, teaching and innovation

- 443 papers with impact factor, with a total IF of 2.287
- 10,454 Paediatrics students
- 5 European projects awarded
- 97 simulation courses and 1,240 students
- 8 surgical departments use 3D printing
- 147 clinical trials and observational studies
- 2,102 rotations, training and practical stays
- 22 surgeries with 3D printing support
- 2,400 online training students
- 9 patentes registradas y una spin-off

Solidarity initiatives and donations received

- 353 solidarity initiatives in favour of the Hospital
- 9 million euros raised
- 15 million to complete the funding for the construction of the SJD Paediatric Cancer Centre Barcelona
Committed to patients and their families

Patient experience

We care about the patient’s experience, including that of their families, during their hospital admission to reduce the emotional impact that this involves and we take care of all their associated (organisational, financial, informational) needs. The Hospital’s Family Space offers fully integrated services with the Hospital’s clinical teams and integrated interventions related to the therapeutic plan for every patient and their family.

Hospital Amic

The Child Life specialists who coordinate the Hospital Amic programme have treated 1,100 patients. In 2018, a group care programme was set up for the family members and siblings of newborn babies with long periods of hospitalisation. In addition, programmes like “Domicilis” (on-site care with dogs) and “Streaming” (assisted therapy sessions with animals for patients who are in isolation due to health reasons) have continued to be developed, as well as therapeutic activities with clowns, musical therapy and expressive art. For their part, the hospital teachers have started looking after the siblings of displaced patients who have been admitted into hospital.
**Volunteers**

The Hospital has over 750 volunteers who have collaborated in 257 recreational activities held within the hospital complex in 2018 (storytelling, magic, painting and art workshops, etc.) fostered by institutions and individuals, as well as 16 activities outside the hospital complex aimed at providing support to 176 families. The activity of volunteers participating in the “Ambassadors” Programme has continued. In 2018, 18 “Ambassador” volunteers represented the Hospital at all types of internal and external institutional meetings to advertise it to potential donors.

**Group activities**

The Family Space has hosted around 900 support group and health education activities for patients and families in 2018, led by various Hospital staff members, such as the SENTIM programme, breastfeeding workshops, metabolic cookery classes, bereavement groups and siblings groups served by the Paediatric Palliative Care Unit, among many others.
## Quality indicators

**Children**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Complexity</strong></td>
<td></td>
</tr>
<tr>
<td>Mean weight</td>
<td>1,1354</td>
</tr>
<tr>
<td><strong>Management of stays</strong></td>
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<tr>
<td>Mean stay observed</td>
<td>5,0</td>
</tr>
<tr>
<td>Risk-adjusted stay rate</td>
<td>1,0420</td>
</tr>
</tbody>
</table>

*Does not include stays of less than 24 hours.*

| Management of outpatient potential | |
| MOS substitution rate | 65,6% | 58,7% |
| Surgery rate without adjusted admission | 0,9774 | |

| Readmissions | |
| Readmission rate | 4,8% | 5,5% |
| Risk-adjusted readmission rate | 0,7398 | |

| Mortality | |
| Gross mortality rate | 0,5% | 0,5% |
| Risk-adjusted mortality rate | 0,5467 | |

**Women’s Area**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Complexity</strong></td>
<td></td>
</tr>
<tr>
<td>Mean weight</td>
<td>0,4535</td>
</tr>
<tr>
<td><strong>Management of stays</strong></td>
<td></td>
</tr>
<tr>
<td>Mean stay observed</td>
<td>2,9</td>
</tr>
<tr>
<td>Risk-adjusted stay rate</td>
<td>1,0050</td>
</tr>
</tbody>
</table>

*Does not include stays of less than 24 hours.*

| Management of outpatient potential | |
| MOS substitution rate | 70,4% | 66,0% |
| Surgery rate without adjusted admission | 0,9336 | |

| Readmissions | |
| Readmission rate | 2,2% | 4,7% |
| Risk-adjusted readmission rate | 0,6740 | |

| Mortality | |
| Gross mortality rate | 0,0% | 0,0% |
| Risk-adjusted mortality rate | 0,000 | |

Source: Benchmark lametrics
Fostering knowledge and innovation

Research

Research activity has significantly excelled as a consequence of the creation of the SJD Research Institute in 2015 and synergies with the Clinical Trials Unit. Indeed, the total impact factor of publications has increased from 849 to 1,977 during the 2013-2018 period. The conduct of 147 clinical trials and observational studies in 2018 must also be highlighted.

For further information regarding the Hospital’s research activities, you can consult the 2018 report that can be found on the Fundació Sant Joan de Déu website.

Paediatrics

The Hospital’s training area increased its activities in the last few years and it has been consolidated as a paediatric knowledge exchange centre, with an extremely varied offer of topics and educational formats. It has its own new website for managing activities and an electronic platform featuring a virtual classroom.

In 2018, it exceeded 10,500 registrations. Out of the total attendees, approximately 60% were professionals that work outside the Hospital; 59% were doctors, 15% were nurses and 14% were psychologists.

DARWIN Platform

In 2018, the platform organised 97 courses in the framework of 42 different training programmes, with a total of 1,240 students. In addition, 60 simulation sessions were carried out, aimed at paediatric resident, paediatric nurses and midwives.

With regards the testing activity of spaces, activities were carried out to validate the transition to the new PICU, determine its minimal dimensions and configure the external consultation spaces as well as those with the day hospital at SJD Paediatric Cancer Centre Barcelona, and to improve the transfer procedure and embolisation of patients with postpartum haemorrhage.
Innovation

In 2018, we participated in numerous FEDER-RIS3CAT projects funded by the European Community:

• HL-4.0. An organisational and digital transformation innovation project that is now in its second year and final development phase for the majority of its sub-projects including:
  - CRM-COACH (customer relations management system);
  - HDM (Health Data Manager);
  - new Patient Portal;
  - Hospital app for patients and families;
  - HEALTH LITERACY, a project to help with the understanding of information.

• ACADOM. A Speech Disorder home care system that broadens the approach of the Funny Friends Family, a project aimed at the huge challenge of helping to simultaneously interpret and correct a child’s speech.

• QuirofAM, for material, instrumental and finished product development to improve surgical planning in 3D.
Committed to society and the planet

Cuida’m

In 2018, we treated 20 children at our centre. Since the foundation of Cuida’m in 2004, we have treated 302 children.

In December, a cardiology mission was undertaken in Peru at Lima Children’s Hospital, where 19 surgeries were performed.

Twinning programme with Sierra Leone

Under the umbrella of the action plan entitled “The Power of the First 1,000 Days”, numerous activities were carried out in 2018, including the following: the transfer of three nurses to collaborate in clinical practice training for nursing students; funding for the hospitalisation of children aged under 5 thanks to the “Apadrina” sponsorship programme; the implementation of the nutritional rehabilitation project funded by the Aurea Foundation; the creation of the Smile Africa Project to improve dental medicine in Lunsar; the creation of the “Primary Health Care” Project, along with Juan Ciudad and Viva Africa; and the start of the partnership with the International Cooperation Unit of the Polytechnic University of Catalonia (UPC).

Environmental protection

Our commitment to environmental sustainability translates into careful management of all the waste that we generate—garden waste, debris, batteries, electronic apparatus and all sanitary waste, among others—and measures for reusing resources and reducing their consumption. In 2018 we managed to save water equivalent to two Olympic swimming pools and, with the recycling of paper and cardboard, we saved 910 trees from being cut down. Likewise, with the improvements applied to energy and water consumption, we have avoided the emission of 16 tonnes of CO2.

Another course of action has been the use of green energy; thanks to this, 100% of the electricity that we consume at the Hospital comes from renewable sources.
he Sant Joan de Déu - Hospital Clínic Healthcare Group, TOP 20 once again

he Sant Joan de Déu - Hospital Clínic Healthcare Group has been recognised once again with the TOP 20 award as the best regional and national referral centre for its management in the last year. The TOP 20 are the winners that Iasist awards to the centres with the best quality, operations and efficiency indicators each year.

The portal creation project, supported by the Hospital's Research and Innovation Management team to consolidate non face-to-face care at our centre, has been awarded the Hinnovar prize at its fifth event, sponsored by Novartis.

A bed management tool devised by staff at our hospital was awarded a prize in the 42nd IHF World Hospital Congress held in Brisbane, Australia.
The International Society of Paediatric Oncology Award to the best investigator in training

The investigator, Guillem Pascual Pastó (in the photo above) from Hospital Sant Joan de Déu has received one of the most prestigious prizes in the field of paediatric oncology worldwide, the Odile Schweiguth prize, for his experimental study on retinoblastoma. This is the first time that research work carried out in Spain has received this honour that the International Society of Paediatric Oncology (SIOP) awards each year to the best investigator in training in the field of paediatric oncology.
## 2018 in figures

### People
- Professionals: 1,941
- Volunteers: 630

### Financial resources
- Income (M€): 191.75
- Expenditure (M€): 191.82
- Funds spent on research (M€): 11

### Equipment
- Beds: 318
- Consultation offices: 161
- Supplementary exam rooms: 19
- Surgical block: 13
- Special procedure and technique rooms: 2
- Birth and labour rooms: 6
- A&E cubicles: 41
- Haemodynamics room: 1
- Day Hospital beds: 48
- Imaging diagnosis rooms: 10
- Rehab rooms: 15

### Research and Teaching
- Papers: 443
- Total impact factor: 2.287
- Supervised theses: 33
- Courses and seminars: 282
- Master's degrees: 15
## Activity

<table>
<thead>
<tr>
<th>Activity</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital discharges</td>
<td>18,071</td>
</tr>
<tr>
<td>MOS</td>
<td>15,878</td>
</tr>
<tr>
<td>and surgeries</td>
<td></td>
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<tr>
<td>Outpatient consultations</td>
<td>245,245</td>
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<tr>
<td>A&amp;E</td>
<td>117,993</td>
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<tr>
<td>Childbirths</td>
<td>3,381</td>
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**Daily activity**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Count</th>
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<tbody>
<tr>
<td>Hospitalisation</td>
<td>50</td>
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<tr>
<td>Outpatient consultations</td>
<td>1,076</td>
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<tr>
<td>A&amp;E</td>
<td>323</td>
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<tr>
<td>Surgeries with admission</td>
<td>39</td>
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<tr>
<td>MOS</td>
<td>34</td>
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<tr>
<td>Childbirths</td>
<td>9</td>
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## Solidarity

### CUIDA’M

<table>
<thead>
<tr>
<th>Solidarity</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cases treated</td>
<td>20</td>
</tr>
<tr>
<td>Countries of origin</td>
<td>9</td>
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</table>

### Sierra Leone

<table>
<thead>
<tr>
<th>Solidarity</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professionals displaced</td>
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</tr>
<tr>
<td>Patients seen</td>
<td>1,767</td>
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