Introdução: A Convenção sobre os Direitos das Crianças e normas nacionais da Direção Geral da Saúde conferem aos adolescentes o direito às decisões sobre a sua saúde. O objectivo deste estudo foi identificar as dinâmicas de implementação do assentimento e do consentimento informado, em ambiente hospitalar. 

Material e Métodos: Estudo transversal e multicéntrico realizado a partir de inquéritos. Incluídos adolescentes dos 14 aos 18 anos e pais respectivos. Foram ainda entrevistados os diretores de serviço e assistentes hospitalares. 

Resultados: Obitiveram-se 194 respostas de adolescentes e pais e efetuaram-se 46 entrevistas a médicos e diretores dos serviços. Adolescentes e pais consideraram importante a participação no processo de decisão mas os pais valorizam de forma significativamente superior a sua participação (91,7% vs 47,8%, p < 0,001 no grupo 14 - 15 anos; 91,8% vs 69,4%, p = 0,005 no grupo 16 - 17 anos). 

Discussão: Este estudo pioneiro em Portugal permitiu a identificação de áreas passíveis de otimização, através de programas de educação para a saúde para pais e adolescentes, informação escrita adequada à idade e formação no ensino pré graduado para estudantes de Medicina e educação nas instituições de saúde para os profissionais. 

Conclusão: Os adolescentes e pais desconhecem as normas legais e éticas quanto ao consentimento e assentimento. Não fica demonstrada a implementação do direito dos adolescentes ao assentimento informado / consentimento informado. Propõem-se programas locais de sensibilização para adolescentes e pais. 

Palavras-chave: Adolescente; Decision Making; Health Personnel; Informed Consent; Parents; Portugal
INTRODUCTION

The 25th anniversary of the ratification of the Convention on the Rights of the Child was celebrated by the Portuguese Parliament in 2015. A reflection on the implications of the Convention in Portugal is therefore very relevant, namely regarding the implementation of meaningful shared decision making (SDM) in clinical settings.1,2

The patient’s right to informed consent (IC) from the age of 16 has been already approved by different European countries including Portugal, Spain, The Netherlands, Poland and Norway.3 The capacity to consent a medical intervention is ensured under the article 38, no.3 of the Portuguese Criminal Code to all minors aged 16 with the adequate discernment to assess the sense and range of consent at the time when it has been provided.4

Consent or refusal of a proposed diagnostic or therapeutic action can be given by any minor aged 16 and over and with the necessary discernment to assess its sense and range, as considered in the norm 15/2013 of the Portuguese Directorate-General of Health (DGS).5

The use of patient’s age to define whether an adolescent has the ability or not to give consent is measurable and objective, even though individual variability is not taken into account. Empiric research has allowed for the implementation of standard instruments aimed at the assessment of child’s capacity to consent, from which the modified MacArthur Competence Assessment Tool for Clinical Research (MacCAT-CR) is an example. The application of this scale has shown that, from the age of 11.2, a child can probably be considered decision-making competent6 wherefore Hein has proposed that patient’s informed assent (IA) should be replaced by consent in clinical trials from the age of 12.7

There is a trend towards a progressive autonomy of minors in health and not only by any pre-established age,8 according to the recommendations of the Committee on the Rights of the Child8 and the European Convention on Human Rights and Biomedicine.10 In England, the practice of consent based on the minor’s capacity was introduced following the case Gillick vs. West Norfolk and Wisbech (1986). A child/adolescent with adequate maturity and intelligence to fully understand the nature and outcomes of a proposed intervention should also have the capacity to consent the same intervention is a summary of the concept of ‘Gillick’s competence’,11 which has been gradually applied in Northern Ireland, England, Scotland and Wales.3

Even though the right to IC has been laid down in national and international legislation, current studies on hospital practice have shown an experience of youngsters which was variable between hospitals and within the same hospital.12,13 Gaps in communication with hospitalised children have been described by different studies.4,15-17

Children education and culture, the attitude and role of parents/caregivers, communication ability, available working time and the own physician’s knowledge and awareness are included amongst the major factors with an influence on the process of obtaining an IA or IC.13,17-19

This was a prospective study with Portuguese adolescents and their parents/caregivers, supplemented by an interview with physicians from different hospital departments, aimed at understanding the dynamics regarding the implementation of in-hospital right of adolescents aged 14-15 and 16-17 to IA and IC, respectively.

MATERIAL AND METHODS

This was a cross-sectional multi-centric study developed from ad hoc research surveys based on instruments of evaluation in hospital environment and previously applied in international studies.20

The study took place at admission and in outpatient units from six departments of paediatrics at the Hospital of Santa Maria (HSM), São João (HSJ), Pediátrico de Coimbra (HPC), Espírito Santo de Évora (HES), Faro (HF) and Instituto Português de Oncologia de Lisboa (IPO) between July 2015 and August 2016.

Adolescents aged 14-18 and their parents/caregivers were included in the study. At the same time, heads of department and consultant paediatricians and consultants of other paediatric specialties were interviewed based on a specific questionnaire.

Adolescents aged 14 to 15 and 364 days (described as group G14-15) were asked to complete a questionnaire on informed assent and those aged 16 to 17 and 364 days (described as group G16-17) to complete a questionnaire on informed consent, in order to understand their perception on the information and communication with healthcare professionals. The same was autonomous and independently asked to parents/caregivers.

Data were analysed by use of the SPSS (version 20.0; SPSS Inc., Chicago, IL) software. Statistical significance of the associations was assessed through the application of chi-square test and Fisher’s exact test, whenever appropriate. Values of p < 0.05 were considered as statistically significant.

Research team was coordinated by the Department of Paediatrics of the Hospital de Santa Maria and the research project was submitted to the Ethics Committee of the Centro Académico de Medicina de Lisboa (including HSM and the Faculty of Medicine of the University of Lisbon) and approved in February 2015.

RESULTS

Global

A total of 194 responses to the questionnaire aimed at adolescents and parents/caregivers were obtained and 46 physicians and heads of department were interviewed.

Data on the global sample of 240 respondents are shown in Table 1.

Positive results are shown in Table 2, 3, 4 and 5.

Responses from all the centres and the different groups were obtained, despite the non-homogeneous distribution.

Adolescents aged 14-18

Questionnaires were sent to 97 adolescents, 48 in
Adolescents (mainly in G14-15) have described having been provided with useful information on their health, at school or at home. Approximately 1/3 of them were provided at the hospital with written information on their rights and more than 90% have described that the physician presented him/herself and explained things in an understandable way, including the patient’s clinical situation and the proposed intervention, with no significant differences between both groups.

More than half of respondents in G14-15 (59.6%) and around 2/3 in the G16-17 (67.3%) had the opportunity to give their opinion on the treatment, even though with a different awareness on having been heard and their assent (younger group) or consent (older group) having been taken into account (78.6% vs. 81.8% by the parents and 64.3% vs. 66.7% by physicians), with no statistical significance.

Around half of the adolescents have described as believing that parents should have a participation in the process and around 2/3 have valued the inclusion of physicians, with no significant differences between the groups. Respondents in group G16-17 have valued more highly their participation in SDM when compared to those in G14-15 (65.3% vs. 52.2%), with no statistically significant differences. Meaningful SDM was described by only 20.8% of the younger adolescents and 25.5% of the older during their stay in the hospital.

Parents/caregivers of adolescents aged 14-18

Questionnaires were sent over to 97 parents/caregivers, 48 in G14-15 and 49 in G16-17 (Table 3) – 74 mothers (76.3%): 37 (77.1%) in G14-15 and 37 (75.5%) in G16 - 17.

Most parents/caregivers in both groups have considered as having been provided with comprehensible explanations by physicians regarding their children’s clinical condition. In addition, most of them have considered that physicians have adequately explained the situation to patients. A positive perception on the written information that was provided during the patient’s hospital stay has been described by around 60% of G14-15 parents and 50% of the G16-17 parents.

Approximately 2/3 of the parents/caregivers in both groups have described that patients had the opportunity to give their opinion on the treatment. According to parents/
caregivers, this opinion was taken into account in 80 and 75% of the situations, respectively in G14-15 and G16-17. In addition, these have considered that physicians took into account the patient's opinion in slightly above 60% of the cases. Approximately 40% of the parents in both groups have described as having had to take some oral or written decision regarding their children's treatment.

As regards SDM in group G14-15, the role of physicians, as well as the role of parents/caregivers have been valued by approximately 90% of the parents/caregivers in both groups. The role of adolescents in SDM was considered as important by slightly more than 55% of parents/caregivers in both groups.

As regards SDM in group G16-17, similar response rates were obtained regarding the role of parents/caregivers and physicians (around 90%), while an increasing rate has been found regarding the role of adolescents in SDM (68.1% of parents/caregivers in G14-15 and 75.5% of parents/caregivers in G16-17).

### Table 3 – Results of the survey aimed at parents/caregivers

<table>
<thead>
<tr>
<th>Closed-ended questions</th>
<th>14 - 15 (n = 48)</th>
<th>16 - 17 (n = 49)</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have you received any written or useful information on your rights?</td>
<td>29/47 (61.7%)</td>
<td>25/49 (51%)</td>
<td>NS</td>
</tr>
<tr>
<td>Has your child’s treating physician explained the disease, treatment, outcomes, etc.?</td>
<td>47/48 (97.9%)</td>
<td>44/47 (93.6%)</td>
<td>NS</td>
</tr>
<tr>
<td>Have you understood what has been explained to you?</td>
<td>46/46 (100%)</td>
<td>48/49 (98%)</td>
<td>NS</td>
</tr>
<tr>
<td>Has the doctor explained to your child his/her disease, treatment, outcomes, etc.?</td>
<td>48/48 (100%)</td>
<td>48/49 (98%)</td>
<td>NS</td>
</tr>
<tr>
<td>In your view, was the doctor able to speak with your child in a way that he/she could understand?</td>
<td>47/47 (100%)</td>
<td>45/47 (95.7%)</td>
<td>NS</td>
</tr>
<tr>
<td>Was your child provided the opportunity to be heard on the treatment?</td>
<td>31/48 (64.6%)</td>
<td>32/47 (68.1%)</td>
<td>NS</td>
</tr>
<tr>
<td>Have you taken into account your child’s opinion?</td>
<td>22/31 (80.0%)</td>
<td>24/32 (75.0%)</td>
<td>NS</td>
</tr>
<tr>
<td>Was your child’s opinion taken into account by the doctor?</td>
<td>19/31 (61.3%)</td>
<td>20/32 (62.5%)</td>
<td>NS</td>
</tr>
<tr>
<td>Were you asked to give any oral or written decision regarding the treatment of your child?</td>
<td>20/48 (41.7%)</td>
<td>20/48 (41.7%)</td>
<td>NS</td>
</tr>
</tbody>
</table>

In your view, who should be involved in any decision-making on the health of adolescents aged 14 to 15 and 364 days?

- **The patient**: 28/48 (58.3%) vs. 27/49 (55.1%) (p = NS)
- **The parents/caregivers**: 44/48 (91.7%) vs. 46/49 (93.9%) (p = NS)
- **The doctor**: 43/48 (89.6%) vs. 45/49 (91.8%) (p = NS)

In our view, who should be involved in any decision-making on the health of adolescents aged 15 to 16 and 364 days?

- **The patient**: 32/47 (68.1%) vs. 37/49 (75.5%) (p = NS)
- **The parents/caregivers**: 43/47 (91.5%) vs. 45/49 (91.8%) (p = NS)
- **The doctor**: 42/47 (89.4%) vs. 45/49 (91.8%) (p = NS)

Do you feel shared decision making with adolescents aged 14 to 15 and 364 days is a relevant issue?

- 40/46 (87%) vs. 31/48 (64.6%) (p = NS)

Do you feel shared decision making with adolescents aged 16 to 17 and 364 days is a relevant issue?

- 44/47 (93.6%) vs. 40/49 (81.6%) (p = NS)

Is your child usually involved in any family decision (leisure, holidays, type of meals, etc.)?

- 45/47 (95.7%) vs. 46/49 (93.9%) (p = NS)
as very relevant. Undergraduate training and experience on written IC and oral IA during their specialty training and/or postgraduate training were described by most respondents. The participation in awareness raising initiatives on IC and IA was only described by 30% and the presence of gaps in training on this subject was described by 36 out of 38 (94.7%) respondents.

The awareness of department guidelines on written IC (84.2%) and oral IA (76.3%) has been described by most respondents. Awareness raising, SDM and obtaining IC and

Table 4 – Results of the questionnaire aimed at heads of department

<table>
<thead>
<tr>
<th>Guidelines and monitoring</th>
<th>n = 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there any guideline in use in your department on written IC and oral IA?</td>
<td>7</td>
</tr>
<tr>
<td>Is there any ongoing monitoring of the effective implementation of IC in the department?</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Training and practice</th>
<th>n = 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Were the guidelines on IC ever disclosed to physicians over the past five years?</td>
<td>8</td>
</tr>
<tr>
<td>Were the guidelines on IA ever disclosed to physicians over the past five years?</td>
<td>7</td>
</tr>
<tr>
<td>Was any awareness-raising initiative ever carried out in your department over the past five years on providing adolescents access to their health information?</td>
<td>4</td>
</tr>
<tr>
<td>Was any awareness-raising initiative ever carried out in your department over the past five years on providing adolescents access to shared decision-making or the right to a written IC?</td>
<td>5</td>
</tr>
<tr>
<td>Was any awareness-raising initiative ever carried out in your department over the past five years on providing adolescents access to the right to oral IA?</td>
<td>5</td>
</tr>
<tr>
<td>Is your clinical staff adequately trained to communicate with adolescents?</td>
<td>8</td>
</tr>
<tr>
<td>Do your clinical staff have the adequate available working time to communicate with adolescents?</td>
<td>5</td>
</tr>
</tbody>
</table>

Table 5 – Results of the questionnaire aimed at consultants

<table>
<thead>
<tr>
<th>Point of view</th>
<th>n = 38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do you feel providing adolescents with information on their health, their involvement in decision-making or signing a written IC are relevant issues?</td>
<td>38 (100%)</td>
</tr>
<tr>
<td>Do you feel informed assent is a relevant issue?</td>
<td>38 (100%)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Training</th>
<th>n = 38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have you ever attended any action during your training on providing children with information on their health or on their involvement in decision-making or the right to a written IC?</td>
<td>33 (86.8%)</td>
</tr>
<tr>
<td>Have you ever attended any action during your training on informed oral assent?</td>
<td>34 (89.5%)</td>
</tr>
<tr>
<td>Have you ever attended any practical training on how to inform children, on their involvement in decision-making or on obtaining a written IC?</td>
<td>32 (84.2%)</td>
</tr>
<tr>
<td>Have you ever attended any practical training on how to obtain an informed assent?</td>
<td>34 (89.5%)</td>
</tr>
<tr>
<td>Have you ever attended during your professional life any awareness initiative, training or other action on providing children with information on their health, shared decision-making or the right to a written IC?</td>
<td>14 (36.8%)</td>
</tr>
<tr>
<td>Have you ever attended during your professional life any awareness initiative, training or other action on oral informed assent?</td>
<td>13 (34.2%)</td>
</tr>
<tr>
<td>Did you experience any gaps in your training on providing children with information on their health, shared decision-making and the right to a written IC?</td>
<td>36 (94.7%)</td>
</tr>
<tr>
<td>Did you experience any gaps in your training on the right to an oral informed assent?</td>
<td>36 (94.7%)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Practice</th>
<th>n = 38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are you aware of the guidelines in use in your department on written IC?</td>
<td>32 (84.2%)</td>
</tr>
<tr>
<td>Are you aware of the guidelines in use in your department on oral IA?</td>
<td>29 (76.3%)</td>
</tr>
<tr>
<td>Have you always encouraged providing adolescents with information on their health, shared decision-making and written IC?</td>
<td>30 (78.9%)</td>
</tr>
<tr>
<td>Have you always encouraged oral IA?</td>
<td>27 (71.1%)</td>
</tr>
<tr>
<td>Have you ever participated or encouraged any research on providing adolescents with information on their health, shared decision-making or written IC?</td>
<td>3 (7.9%)</td>
</tr>
<tr>
<td>Have you ever participated or encouraged any research on informed assent?</td>
<td>3 (7.9%)</td>
</tr>
</tbody>
</table>
IA have been described by around 3/4 of respondents. Only 7.9% of physicians have participated in research.

**Shared decision making in clinical settings: adolescents and parents/caregivers**

SDM was valued in a similar way by G14-15 patients and their parents, according to a sub-analysis of responses (Table 6).

Nevertheless, SDM with parents (91.7% vs. 47.8%; \(p < 0.001\)) and physicians (89.6% vs. 69.6%; \(p = 0.016\)) was significantly more valued.

Similar results were found in group G16-17, in which SDM with parents (91.8% vs. 53.1%; \(p < 0.001\)) and with physicians (91.8% vs. 69.4%; \(p = 0.005\)) was significantly more valued (Table 7).

**DISCUSSION**

The informed consent and its application to the paediatric population is the greatest ethical challenge in the past few decades.

This was the first Portuguese study on the perspective of parents and physicians regarding IC in adolescents and has bridged one important gap in national research. The conclusions of less specific studies on the assessment of the right of the child at the hospital were confirmed by results, namely those regarding the discrepancy between existing policies, knowledge and practice of healthcare professionals, as well as the experience of adolescents and their parents/caregivers.\(^{21-24}\)

According to the commitment of the Portuguese government regarding the ratification of the Convention of the Right of the Child and the Oviedo Convention, all children should have access to the same rights. Therefore, not only the application of the right of the child to be heard corresponds to the presence of legislation but to the development of norms, the adoption of hospital policies, the adequate training of professionals, as well as the experience of adolescents and their parents regarding their rights as well.\(^1\)

Our results have shown the need for the implementation of the signed conventions and the legislation in force. The development of inter-institutional national committees with the representation of the Ministry of Health and Science and of the National Ombudsman among others has been recommended by the World Health Organization aimed at the implementation of the right of the child. This task should be carried out through under and postgraduate training, monitoring and assessment of the quality of healthcare, including the right of the child and the creation of partnerships between cooperation and supervision networks and between hospitals and healthcare centres.\(^{24}\)

The results of this research could be included in the regular report of the Portuguese Government to the Committee on the Rights of the Child regarding the achievement of the right of the child in Portugal.\(^{25}\)

Everyone within the 0-18 age group is considered as a child, according to the Convention on the Right of the Child and the introduction of age criteria for IC were already recommended in 2009\(^1\) while even in 1997 a trend towards the practice of a progressive autonomy of minors in health and not only from a pre-established age was suggested by the European Council.\(^{19}\)

The right of patients to freedom and self-determination is ensured by the Constitution (article 26 of the Constitution of the Portuguese Republic) and is the ethical principle underlying the requirement for an IC in medical practice, according to Beauchamp and Childress (1993).

The age of criminal responsibility has been set at 16 by the Portuguese Criminal Code, while varying age limits as well as other criteria for IC have been set in other countries, reflecting the opinion that physicians are able to assess child’s maturity and consider him/her for SDM from the age of 12.\(^{26}\)

The ability of adolescents to understand and protect their own rights was not considered as significantly different between the age of 15 and 21 by Belter and Grisso (1984), suggesting that adolescents aged 15 have full capacity to

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**Table 6 – Shared decision making in healthcare: patients aged 14-15**

<table>
<thead>
<tr>
<th>Question</th>
<th>Adolescents (n = 48)</th>
<th>Parents/caregivers (n = 49)</th>
<th>(p)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In your view, who should be involved in shared decision-making on the health of adolescents aged 14 to 15 and 364 days?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The patients</td>
<td>24/46 (52.2%)</td>
<td>28/48 (58.3%)</td>
<td>NS</td>
</tr>
<tr>
<td>Their parents/caregivers</td>
<td>22/46 (47.8%)</td>
<td>44/48 (91.7%)</td>
<td>&lt; 0.001</td>
</tr>
<tr>
<td>Physicians</td>
<td>32/46 (69.6%)</td>
<td>43/48 (89.6%)</td>
<td>0.016</td>
</tr>
</tbody>
</table>

**Table 7 – Shared decision making in healthcare: patients aged 16-17**

<table>
<thead>
<tr>
<th>Question</th>
<th>Adolescents (n = 48)</th>
<th>Parents/caregivers (n = 49)</th>
<th>(p)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In your view, who should be involved in shared decision making on the health of adolescents aged 16 to 17 and 364 days?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The patients</td>
<td>32/49 (65.3%)</td>
<td>37/49 (75.5%)</td>
<td>NS</td>
</tr>
<tr>
<td>Their parents/caregivers</td>
<td>26/49 (53.1%)</td>
<td>45/49 (91.8%)</td>
<td>&lt; 0.001</td>
</tr>
<tr>
<td>Physicians</td>
<td>34/49 (69.4%)</td>
<td>45/49 (91.8%)</td>
<td>0.005</td>
</tr>
</tbody>
</table>
understand and exercise their own rights.27

Competence in children is developed in response to their own experiences and expectations and not simply or gradually by phases or ages, according to Alderson, referenced by Runeson et al.17

A consensus has been established in many European countries that from the age of 16 an IC should be obtained from adequately informed children while, between age 14 and 16, an informed assent following an appropriate explanation should be obtained together with parent’s consent.28-30

However, as outlined above, there are other criteria based on maturity and competence of children in the United Kingdom, such as Gillick criteria. In the Australian state of New South Wales, legislation has established that ‘children from the age of 14 are allowed to consent their treatment as long as they adequately understand and evaluate the nature and outcomes of a proposed operation, intervention or treatment’. However, obtaining parent’s or caregiver’s consent in the case of adolescents aged 14-15 is a prudent measure, except in case of patient refusal.3

This study was aimed at understanding whether the law and ethical principles are accepted and complied with in Portuguese departments of paediatrics and also whether physicians had any awareness and knowledge on this matter.

A group of 240 testimonies were included in the study, 194 of which were represented by responses to questionnaires aimed at adolescents and parents, in addition to 46 interviews with questionnaires aimed at physicians from six hospital centres, with an irregular distribution. This multicentric study has shown that sufficient ‘critical mass’ for the international acceptance of this Portuguese research can be obtained from working together.

Globally, even though no major differences were found between both age groups, statistically significant differences in adolescent’s awareness have been found when the results in adolescents, parents and physicians were analysed.

It is worth mentioning that school and science discipline have been described by respondents in both groups as the main source of health education. However, little information seems to exist in healthcare institutions and restricted to each specific disease. Healthcare institutions should adopt a strategy aimed at improving health literacy of young people and their parents, in compliance with a comprehensive and outreach medicine as recommended by the WHO.

The presence of little organised information on the rights at the hospital has been recognised, almost restricted to accredited departments. The charter of the rights of children in the hospital is used as a leaflet, even though this information is mainly aimed at parents.

The physician’s assertiveness and proactivity is worth emphasizing as more than 90% have presented themselves and provided a satisfactory explanation on the patient’s clinical situation. No differences were found between both groups.

However, only around 60% from those having understood the information could give their opinion and non-significant differences were found between both groups regarding the role of adolescents in their own awareness.

Meaningful SDM was only described by only 20 to 25% of adolescents, probably showing that no real chances were given to adolescents, with greater concern found in the group G16-17, in line with what has been described by Coyne and Gallagher.12

Parents/caregivers not always support their children in difficult situations and children are usually informed by the healthcare team on what will happen, with no information on treatment alternatives or without asking for their opinions, as described in the observational study by Runeson et al.13

Adolescents and parents/caregivers have described that their involvement and decision-making capacity depend on the level of maturity, providing a greater responsibility and better compliance with therapy, which is very relevant in patients with chronic disorders.

Compliance with medical recommendations is crucial in every aspect of paediatrics, particularly for a successful outcome, in disease prevention and in health promotion. In this context, Winnick et al. have supported that communication between physicians and patients is a crucial element.31

Most parents/caregivers have received information aimed at themselves rather than at adolescents (30% - 40% vs. 50 - 60%), with a positive perception of satisfaction with the quality of the information, similar to their children.

According to parents/caregivers, their children gave more opinions than they would consider. Oral or written decisions were taken by less than half of the respondents.

No progression has been found from the age of 14 to 16 regarding an effective decision making, both in the group of adolescents and parents. It is worth mentioning that parents/caregivers of the younger adolescents have considered that, at the age of 16, children should be able to decide, which was considered by a lower percentage of parents of the older adolescents. Health and illness seem areas of adolescent infantilisation with a successive postponement of accountability by parents.

The role of physicians and of the own adolescents in SDM has been mostly valued by these and it is worth mentioning that 30% of the adolescents have not included physicians in SDM.

The presence of guidelines, their disclosure and monitoring has been described by all the heads of department, even though not enough available working time has been recognised as a possible constraint to their implementation.

The relevance of this subject has been recognised by all the 38 consultants, while these have mostly described under but not postgraduate specific training and having learned from their own clinical practice as well as from more experienced colleagues. Some have assumed having spoken as little as possible with their patients and only where absolutely necessary to obtain an IC.

It has also been shown by differences between closed and open-ended questions that adolescents should have...
the final decision, even though SDM cuts across the groups of parents/caregivers and physicians.

Limitations of the study
This study was carried out in tertiary hospitals involving predominantly patients with chronic diseases, with higher contact with healthcare services and submitted to more invasive procedures, probably leading to better results that cannot be extrapolated to the national level.

Patient’s gender was not identified and any gender-related differences would be relevant, due to the presence of a variable maturity between genders.

Parent’s or caregiver’s level of education was not included in the questionnaire and this could correspond to a possible bias factor.

CONCLUSION
Adolescents, parents/caregivers and physicians are not aware of the legal and ethical norms regarding informed assent (IA) and consent (IC) at the age of 14-15 and 16-17, respectively; therefore, a change in the norm is mandatory, including (i) reasoned explanation and the development of programs in secondary schools within the education for health, (ii) information for parents/caregivers in healthcare institutions and (iii) under and postgraduate training for professionals in order to improve knowledge on the implementation of the right of adolescents to IA/IC.

The implementation of the right of the adolescent to IA/IC has not been proven and further completion is necessary with a retrospective study of the year of 2017 regarding the involved departments and monitoring of the practice of IA/IC with the inclusion of other centres.

Leaflets are not appropriate for adolescents and therefore new leaflets aimed at this age group are needed, involving patients with a chronic disease.

Training and awareness of physicians and healthcare professionals can be improved through a training program for medicine students and healthcare professionals with the support of the Sociedade Portuguesa de Pediatria and the Conselho Nacional de Ética para as Ciências da Vida.

Adolescents and parents/caregivers have not enough information and the development of local awareness-raising initiatives is crucial.

The cooperation with national entities for greater harmony between legislation, professional training, hospital policies and monitoring, assessment and improved accomplishment of the right of the child is also clearly relevant.

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