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### Ethical orthopaedics for EFORT

"[...] set standards which reassure our patients and politicians that we uphold those ethical principles which should protect the trusting relationship between patient and doctor."

#### ETHICAL ORTHOPAEDICS FOR EFORT

A group of surgeons from around Europe was asked by the EFORT Board to consider how orthopaedic surgeons should make ethical considerations central to their everyday practice.

This ethics committee group was initially chaired by Prof. Jean Puget (France) and included Michael Benson (UK), Niki Boehler (Austria), Miklos Szendroi (Hungary) and Luigi Zagra (Italy). Sadly, Prof. Puget died unexpectedly, and the work was completed in his memory.

It is hoped that the recommendations will stimulate discussion and elaboration as we all strive to treat our patients, colleagues and trainees with consideration, skill and care.

Michael KD Benson (Chair of Ethics Committee)



Jean Puget (deceased)

It is with the greatest sadness that the authors recall that the contributions made to this ethical study by our first chairman, Prof. Jean Puget, were abruptly halted by his untimely death. We honour his enthusiasm, good humour and deeply held ethical beliefs. The world of orthopaedics is made poorer by his departure.

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#### AIMS

Specialist societies around the world are formulating best practice criteria for patient care. The European Federation of National Associations of Orthopaedics and Traumatology (EFORT) aims to provide guidance for European orthopaedic surgeons in managing our patients with fairness, honesty and integrity and with a clear understanding of the ethical and moral principles which should underpin this care.

#### DEFINITION

In its simplest terms, Ethics is the science of human duty. Medical ethics applies moral principles to the values and judgement inherent to the practice of medicine. It includes the essential concepts of professionalism and our relationships with patients, colleagues, trainees and industry. There is clearly a link between the law and ethics, but the former tends to concentrate on rights and the latter on values.

#### HISTORY

There is nothing new in medical ethics; concerns for our patients' welfare and the proper behaviour of those who treat them date back 4,000 years to the Code of Hammurabi. It is twenty-five centuries since Hippocrates exhorted us "to abstain from doing harm", later interpreted as "First do no harm". There are archives of literature on medical ethics in general, but remarkably little on surgical and even less on orthopaedic ethics. Standard surgical textbooks make no mention of them.

In the medieval world, moral principles were developed by Jewish, Catholic and Islamic seers. Thomas Percival first used the phrase "medical ethics" in his "Medical Jurisprudence" in the eighteenth century; his writings were more protective of the physician than the patient but were incorporated into the American Academy of Physicians' first *Code of Ethics* adopted in Philadelphia [1].

The early twentieth century saw the evolution from a paternalistic doctor/patient relationship towards greater patient autonomy. The Nuremberg Code of 1947, which followed upon non-consensual Nazi research, underlined the rights of a patient to understand what was on offer, the right to choose treatment and the right not to be harmed.

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In 2005, a JBJS editorial noted: "Medicine, law and religion are the three traditional learned professions. With professionalism, both privilege and responsibility should come. As surgeons we study to achieve specialised knowledge and supplement this with training and experience. Our patients and our Governments grant us certain privileges but expect us to be guided by ethical principles. We set the standards for entry, assessment, training and certification into our specialty and seek to ensure these standards are maintained throughout a professional lifetime. Our patients allow us the right, after careful explanation, to perform operations upon them which cannot be free of potential complications" [2].

Many publications consider the changing environment in which we practise. The British Medical Association's *Medical ethics today: the BMA's handbook of ethics and law* runs to 997 pages and is regularly updated [3]. The *Journal of Medical Ethics* has a wide circulation, and students around the world now study ethical complexity at university.

The excellent AAOS 'Code of ethics and professionalism for orthopaedic surgeons' (revised in 2011) highlights the concerns we should all have for patient welfare and honourable behaviour by treating orthopaedic surgeons [4].

#### KEY CONSIDERATIONS IN ETHICAL ORTHOPAEDIC PRACTICE

*Background* The primary aim of all doctors should be to care for patients to the best of their ability. We must recognise that each patient is unique with widely varying medical, psychological, social and mental characteristics which affect understanding and decision-making [5].

Cesana [6] reminds us of the 'mystery' within each doctor and patient relationship; if we neglect our ethical responsibilities, we overlook the complexity of our patients' needs.

*Personal* All practising orthopaedic surgeons should combine honesty and integrity with altruism. We need to maintain our own physical and mental health to practise efficiently and strive to balance work, family and recreational pursuits appropriately [7].

*Professional* We must recognise and work within the limits of our competence. We should consult and listen to other colleagues' advice when we are in doubt. Furthermore, we should respect the patient's right to a second opinion [8]. We must keep up to date by attending relevant meetings and congresses, liaising with colleagues and reading current research and review literature. It is essential to keep accurate, complete and legible records con-

temporaneously. We should also maintain records of practice, course attendance, etc., —and be involved fully in competence assessments. We should regularly review our own practice by audit and take part in relevant local and national databases [9, 10].

We should be certain that drugs and treatment are prescribed only when the patient's health has been properly assessed and then offer effective treatment based on the best available evidence. When a cure is not possible, we must do all we can to alleviate pain and distress. In all our dealings with patients, we should be as impartial as possible. We should not be influenced by status, religious or ethnic considerations.

When we have doubts about the facilities available or the competence of a colleague, we should be prepared, if simple discussion fails to resolve the problem, to pursue the matter until the issue is settled.

A recent UK report highlighted the problems which may arise when hospital managers strive to achieve cost savings at the expense of patient care and noted: "The medical profession's technical and scientific brilliance has not been matched by its leadership or compassion" [11]. It is well to remember Martin Luther King's observation: "Our lives begin to end the day we become silent about things that matter."

## ORTHOPAEDIC SURGICAL RELATIONSHIPS WITH PATIENTS AND COLLEAGUES: HONESTY & TRANSPARENCY

We are doctors before we are surgeons, and our first priority must always be to look after our patients to the best of our ability. Our patients deserve our compassion and understanding [12]; they need to choose between any treatments we offer, and it is our professional responsibility to explain options honestly and transparently, simply and clearly. The advice we offer should be based both on the best available evidence and our own experience. The options offered should consider also any limitations imposed by the resources available to us. Whenever possible, as part of our risk/benefit analysis, a simple procedure should be preferred to a complex one [13].

When things go wrong, we must deal with problems with compassion and understanding [14]. Our patients must not feel abandoned, and we should redouble our efforts to support them whether or not the complication can be resolved [15, 16].

Our patients and their relatives should understand our commitment to maintaining confidentiality 6 Ethical orthopaedics [17, 18]. Our conduct must justify our patients' trust both in us and in our profession; it is essential that we are honest about our own experience and qualifications. Every surgeon should recognise the limitations of his experience, skill and surgical expertise and be prepared to refer to a more experienced colleague when necessary. We must not promise excellent clinical results when the outcome is often unpredictable.

Ethical considerations may sometimes be particularly challenging as, for example, in high-level athletes and those with profound disability who are unable to comprehend the problem or the potential solution [19].

As new techniques and procedures develop, it becomes impossible to have great experience of them all. Close liaison with colleagues should ensure that complex problems are dealt with whenever possible by the most experienced team. Patients appreciate our honesty in these matters. Referrals to colleagues should be made in the patient's best interests and not to gain money, career or scientific advantage.

It is the duty of a more experienced doctor to support junior colleagues as a priority, and not leave them unsupervised or unsupported in managing cases with which they have little experience. Our patients should understand that surgeons work in teams; we must understand that team unity is critical if we are to achieve the best results [20–22].

Professionalism dictates that we must try to understand the complex personal, social and psychological factors associated with illness which may influence our patients' choices. The days of the paternalistic doctor have passed [23]; decision-making must lie clearly in the hands of our patients. Our responsibility is to ensure that we have explained fully the benefits and risks associated with any treatment. Time for reflection and other opinions may be needed for the patient to reach a considered decision [8].

We must not discriminate unfairly against patients on the grounds of their likability, politics, status, religion, etc., or allow personal views or possible financial gain to affect the impartiality of the advice we offer.

If things go wrong, we must be open and honest with patients and try to put matters right if possible. We should explain fully and promptly what has happened, the likely effects and how we intend to remedy any problems [24]. If a patient complains about our care, we must respond promptly, fully and honestly and be prepared to apologise when appropriate. The complaint should not adversely affect the care and treatment we continue to offer.

We must avoid criticism of a colleague in front of other colleagues, trainees or patients (it is improper for the patient Ethical orthopaedics **7**  and colleagues and reflects badly on us). We should support colleagues when appropriate if they are the subject of unjust claims or blame. As litigation becomes increasingly common, it is essential that medical experts give unbiased and clearly considered advice which must reflect the standards of the whole profession and not simply those of the superspecialist.

However, if concern is brought to our attention about a colleague's performance, we are obliged to act. This may involve inappropriate patient management, inadequate standards of surgery or follow-up, health matters, unethical conduct and financial irregularity. When the concern is minor, it is wise to discuss matters with the surgeon before proceeding further. If, however, there is any worry about patient safety, the concern must be promptly escalated to involve the medical director and hospital management.

#### INFORMED CONSENT

Informed consent is now a mandatory part of everyday clinical practice especially when an operation is involved [25]. Such consent has medico-legal implications, but even more importantly, it demands our ethical concern [26]. It is not enough to make it a bureaucratic procedure where an operation is listed and a signature requested [27]. The procedure must be carefully and fully explained in understandable terms to the patient or responsible person [28, 29]. The informed consent form is not a substitute for properly educating a patient; it simply reflects that an appropriate discussion has taken place [30, 31]. Risks, alternatives, advantages and disadvantages of the proposed treatment must be discussed [32, 33]. The risks should not be minimised nor the benefits exaggerated. Both success and failure and the actions necessary should problems develop should be considered [34]. The consent form should be witnessed by a surgeon fully conversant with the procedure [35]. The patient should be given time to ask questions. With adequate time for information and questions, our patients are better able to make their own decisions and participate fully in their treatment even if problems arise. An understanding alliance between patient and doctor fosters improved health-care outcomes and minimises the risk of developing an antagonistic or litigious relationship [30]. Potential conflicts of interest, such as research, industry grants, financial or other rewards for the doctor or institution, should be discussed. Once again, honesty and transparency play key roles in discussing carefully our treatment plans with our patients. Lemaire [26] reminded us that our patients often fail to understand the issues and, furthermore, forget most of the information provided. They remember better how the information was given rather than its content which, in turn, should remind us of the importance of establishing rapport whenever possible.

#### DOCTORS' FEES OR HONORARIA

Fees, when payable for private practice, should reflect the time, complexity, skill and experience of the surgeon. Patients should be made aware that they will not be abandoned if they run out of money as a result of unforeseen circumstance or complication.

The decision to treat should not be based on economic reasons alone. The patient in both privately and publicly funded systems should base treatment decisions on the need and not on finance. In the public system, doctors must not seek money, gifts or any other personal advantage [36]. The obsolete term 'honorarium' has its origins in the idea that a patient may give an honorary prize for the doctor's medical knowledge and art. Gifts should not be solicited as such inducements might tempt the opportunistic but unethical surgeon to expedite treatment, assure the patient of his personal involvement or improve accommodation in hospital.

Furthermore, with today's limited resources and irrespective of whether treatment is public or private, we should not advise expensive treatments or devices with no proven improved patient outcomes [37]. As ever, honesty and transparency should be our guiding principles.

#### THE ORTHOPAEDIC SURGEON'S RESPONSIBILITY FOR TEACHING AND TRAINING

As teachers and trainers in orthopaedics, we carry a burden of responsibility to ensure that future surgeons develop both requisite knowledge and the ethical standards needed to look after patients with skill and care. Each of us must be aware that our students, trainees, colleagues and patients learn in part by the examples we set. We must share medical knowledge and teach appropriate surgical techniques. We must also ensure our trainees understand the importance of compassion, understanding and appropriate explanation for all our patients [38, 39]. Critically, we must stress that our patients' interests always come first, and it is they who must understand the risk/benefit balance for any procedure and decide whether to proceed.

It may be difficult to separate personal interest from our treatment options. Many of us have industry and research links which tempt us to skew the advice we give. It is a temptation that we should resist [40]. If there is any potential conflict of interest, this must be explained carefully to the patient, and a time for reflection and family discussion should be allowed before a decision is made [32]. A failure in communication is the most common cause for patients to complain [24]. In our teaching and training, it is vital that we pass on these ethical principles.

Surgeons do not work in isolation; it is essential that we work in teams. Good team working is critical in building the best conditions for practice [20, 22]. The teams vary in size and constitution, but plans of action, especially when they involve a substantial change, are best developed after careful debate [21]. Our students and trainees gain insight by participating in such debates. We should remember that, even if criticism is justified, it is unacceptable to humiliate any colleague or trainee in front of a patient, nurse or other doctor.

Our goal in teaching and training is to develop informed, technically competent surgeons in the future who are fully aware of the need to treat patients with honesty, skill and consideration.

#### THE ETHICS OF ORTHOPAEDIC RESEARCH

Research is essential if we are to make progress. In general, it should increase and develop our understanding of disease and its management with the aim of improving patient outcomes. Research must be considered by the institution's ethical committee. Where possible, laboratory experiments should be preferred to animal or human ones.

Anyone who conducts patient-related research should understand the requisite ethical, institutional and government guidelines which guide behaviour. While these vary in Europe, some core principles are common to all. Patients must be fully informed about the objectives, risks and potential benefits of the study and given time to reflect before agreeing [31]. While the details of the research project may be given by a junior team member, a senior investigator should outline the study to the patient and be sure that it is properly understood. Patient volunteers should be made aware of the outcomes of the research in which they participate [32].

There are many potential ethical pitfalls in research [41]. To counteract, these honesty and integrity are essential. Sponsorship is necessary for research, and this may come from our institutions, charities, governments or industry. If the investigator and his team stand to benefit individually or institutionally either financially or in kind, the patient should be made fully aware [40]. All those who are involved in the project must understand the financial and ethical considerations of such sponsorship.

Poor results should not be excluded on any pretence; the outcomes of the study should be presented in a timely, objective, accurate and complete way [42]. Plagiary should be avoided, and proper acknowledgement should be paid to sources. No individuals' names should be added to a research paper unless they have contributed significantly.

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The results of the research should be shared with all those who volunteered for the project.

Complete records of all scientific researches should be retained for at least 5 years after publication to ensure that a critical review could be undertaken should the need arise.

Where a surgeon has collaborated in developing a new instrument or technique, it is reasonable for him/her to be financially rewarded. When a surgeon is involved in clinical trials of a new prosthesis which is not of his/her design and the surgeon's name is used to facilitate sales, personal rewards are less satisfactory; it is better if the institution or department receives such benefits. No surgeon should be persuaded to use an appliance against his/her better judgement. Once again, patients must be fully informed of any payment from a third party which may influence their management.

It sometimes happens that an investigator finds that, on further review, the excellent initial results cannot be reproduced. It is essential that these later results are reported to prevent unnecessary widespread damaging usage. Close liaison with the manufacturer is fundamental in such matters.

#### INTELLECTUAL PROPERTY

The concept of intellectual property is straightforward; most research institutions are well aware of the rules which govern it and the patents which may be needed. Nonetheless, the principles underlying the development and appropriate contracts need to be clearly established before a commercial support is negotiated.

There have been many examples of ethical misconduct in scientific research [40, 41]. We all have responsibility to report such lapses. The US Public Health Service (PHS) and the National Science Foundation (NSF) include, under the umbrella of 'scientific misconduct,' plagiarism, deception, falsification and/or fabrication of data together with "other practices that seriously deviate from those that are commonly accepted within the scientific community for proposing, conducting or reporting research." We must, however, try to distinguish between honest error and deliberate falsification and recognise that there may be differences in the analysis and interpretation of data [7].

It is widely but not universally recognised that disclosures of potential benefits and rewards should be presented before every scientific paper and presentation. We should persuade governments, professional organisations and medical journals that conflicts of interest should always be declared in every medium [43]. EFORT believes that dis-

closures should be fully and transparently declared, and these include grants, royalties, stock options, research funds, travel and accommodation costs and any financial interest for the surgeon, relatives, institutions, departments or colleagues. The surgeon who reports on experience with a product or procedure must disclose any economic advantage received.

#### **RESEARCH AND PUBLICATION**

There should be an end to the haphazard way in which new surgical techniques and products are introduced [44, 45]. Patients may be attracted by the latest trend before it has been properly tried and evaluated. The history of orthopaedics is littered with widely different procedures which have been proven of little value. In promulgating a new technique, surgeons often compare poorly with the pharmaceutical industry and its rigorous controls [46].

All orthopaedic surgeons recognise that ethical committee approval must be sought before prospective studies or additional investigations are undertaken. We should encourage ethical committees to review progress in these studies to ensure that they remain focused, safe and relevant. Although we know that research must be honest, unbiased and rigorous, fraudulent publication remains to be a risk as surgeons are tempted to present their own results favourably. Editors and those who review for medical journals must be aware of possible fraud and be prepared to question scientific papers if there is doubt [47].

#### RELATIONSHIPS BETWEEN ORTHOPAEDIC SURGEONS AND INDUSTRY

It is inevitable that conflicts of interest may arise when the ambition of the individual is in conflict with ethical obligation. Such conflicts may arise when our financial, medical and political goals interfere with our ties to the pharmaceutical and manufacturing industries [40]. These industries are now very aware of the pitfalls which may accompany inappropriate links with surgeons, and for example, the Eucomed Code of Ethical Business Practice [48] very clearly defines how the necessary close links should be forged.

Conscience is a tender plant and must be nurtured by us all. We should know when our actions are not solely in the best interests of our patients. Our dealings must always be seen to be 'reasonable'. If we maintain our own ethical principles, we will pass on to the next generation of surgeons' ideals every bit as important as their surgical skills.

In an increasingly critical world, we cannot simply assume that all surgeons are above reproach and revered by 12 Ethical orthopaedics their patients. As an example, if we accept gifts from the pharmaceutical and manufacturing industries, it may have implications for the relationship with our patients. It risks undermining their confidence in our ability to offer impartial advice [49]. EFORT should set standards which reassure our patients and politicians that we uphold those ethical principles which should protect the trusting relationship between patient and doctor. As surgeons, our dealings with the industries which provide our medicines and devices must be clear-cut, open and defined.

Our relationships with industry should be open, honest and transparent. Each depends heavily on the other, and close liaison is essential. These links should obey certain principles, orthopaedic surgeons should preserve their independence, and no agreements with industry should be accepted if they include conditions which might interfere with the surgeon's surgical and prescribing practices. They must comply with national and local laws. The ethical administrative principles, including all relevant contracts, should be confirmed in writing by the hospital administration which must be satisfied that they are fair and equable. Where patient care is involved, the patient should be made fully aware of the surgeon's industry links and of any benefits that might accrue.

All agreements, reports and invoices should be fully documented, and a copy should be retained by each participant. These must describe the collaboration details, the services to be performed and the method of reimbursement.

#### Industry-sponsored product promotional meetings, training and education

It is appropriate for industry to sponsor these. When covering the costs of attending them, it is better for industry to reimburse the orthopaedic department than the individual surgeon or trainee in the interests of openness. If industry is promoting an event, it may be responsible for the travelling and accommodation costs of those attending. Expenses should include *reasonable* travel, food and accommodation costs. It is reasonable for orthopaedic instructors at such meetings to be paid a fee. Any recompense should be declared. No uninvolved accompanying person should be eligible for any expenses.

The interaction between manufacturers and orthopaedic surgeons may differ between countries. Financial recompense for meeting attendance is more critical in countries where surgeons are less well-rewarded for their activities. It is important to remember that junior trainees are often in greater need of support than their seniors.

#### Industry support for orthopaedic and allied educational conferences

Support for orthopaedic surgeons to attend local, national and international conferences is fine, provided that it complies with hospital, local and national guidelines. The support may include financial, scientific, technical and organisational assistance. It is essential that support is reasonable, and it should cover standard rather than luxury fares, fees and accommodation. Such support should be open and declared.

Industry financial support for conference organisers should follow a well-planned programme to which local, national and, where indicated, international committees have agreed. Satellite symposia at appropriate conferences may be similarly reimbursable.

While industry may contribute to the scientific content and faculty constitution, it should be in liaison with orthopaedic surgeons if the symposium is to be recognised as having an educational value. In all cases, there should be a written contract, agreed by both parties and the appropriate hospital or university authority, and this contract must be disclosed.

#### Orthopaedic consultant advice to industry

This may take many forms; it includes research participation on advisory boards, presentations at company-sponsored training, third party conferences and product collaboration. The collaboration should be transparent. A written agreement signed by both parties and the appropriate hospital or university body should set out the relevant issues. While financial recompense may be an important part of the collaboration, a surgeon should not be paid simply because he/she uses a particular implant. Consultant advisors should be selected on the basis of their expertise and not on the basis of the volume or value of their practice. Any collaboration should be open and transparent. It is the surgeon who should be sure, for example, that in any patient review, none should be omitted simply because their results do not correspond to the norm. Remuneration should reflect the surgeon'scontribution and not the value of the product.

#### ADVERTISING

While many surgeons are disconcerted by advertisements promoting the skills of one particular surgeon, institute or technique, there are surprisingly few official restrictions in place.

In 2002, the Professional Conduct, Etiquette and Ethics Committee of the Indian Medical Council advised that the "soliciting of patients directly or indirectly by a physician, by a group of physicians or by institutions or organisations is unethical". A physician should "not invite attention to himself or to his professional position, skill, qualification, achievements, attainments, specialities, appointments, associations, affiliations or honours and/or of such character as would ordinarily result in his self-aggrandizement".

Gillon in his 1989 editorial highlighted the problem: while there is a long-standing disapproval of self-promotion, patients have the right to choose both their surgeon and their treatment and unless they have access to accurate information they are unable to make an informed decision.

The American Medical Association's ethical code on advertising and publicity notes simply that we should not *deceive* the public: adoctor "may publicize him or herself... through any commercial publicity or other form of public communication (including any newspaper, magazine, telephone directory, radio, television, direct mail, or other advertising) provided that the communication shall not be misleading because of the omission of necessary material information, shall not contain any false or misleading statement, or shall not otherwise operate to deceive" [50].

In the UK, the General Medical Council'sadvice on good medical practice is clear: in providing and publishing information about our services, we must be sure that the information is factual and verifiable; we must not make unjustifiable claims about the quality or outcomes of our services in any information we provide to patients; we must not offer guarantees of cures, nor exploit patients' vulnerability or lack of medical knowledge [51]. We must not put pressure on people to use a service, for example, by arousing ill-founded fears for their future health [52].

Advertising is now inevitable; surgeons and institutions need to publicise their skills and expertise in the public interest but should be always responsible and honest and refrain from claiming precedence over other individuals and organisations.

#### SOCIAL MEDIA AND MEDICAL ETHICS

Surgeons now have many opportunities to interact with colleagues, industry and their patients not only by newspaper, radio and television but also through social media [17, 53, 54]. We should address these present challenges. We must maintain our patients' confidentiality [17, 18], follow ethical guidelines, report unprofessional and/or dishonest advertising and be aware that publicity may both benefit and harm career prospects; information should be kept up to date, and we should remember that social sites allow both positive and negative commentaries [55].

Once again, honesty, integrity and a clear aspiration to improve our patients' health should be the driving force behind any information we publish.

#### SUMMARY

As orthopaedic surgeons, we should continue to treat our patients with honesty, compassion, skill and care. Our aims should always be to 'cure and to care'[56]. If we rely solely on technique and neglect our ethics of service, we become a trade and not a profession [51]. The therapeutic alliance between doctor and patient should be based on understanding, confidence and cooperation and form the platform for a successful treatment [57].

We have a long tradition of earning the respect of our patients and colleagues, and we must ensure that we continue to deserve the trust they place in us.

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# Current members of the EFORT Ethics Committee

M. Benson	UK
N. Böhler	Austria
H. P. Coudane	France
M. Szendröi	Austria
L. Zagra	Italy

#### IN MEMORIAM - PROFESSOR JEAN PUGET (1946-2013)

Jean Puget completed his training in Toulouse between 1970 and 1985. In 1986, he gained academic tenure in the department led by Professor Guy Utheza, himself one of the pioneers of French orthopaedics, as one of the first in the region to conduct hip arthroplasties. In 1998, Jean Puget took over as chair of the department, until his retirement in 2011. As is customary in France, the chair remains in his department for a further two years as a consultant. This role ended in 2013. Jean lived a full professional life and was active right up to his last day.



Professor Jean Puget

Jean was predestined for the practice of surgery and, more specifically, orthopaedics. His father was a veterinary surgeon, Director of the Toulouse Veterinary School and had a specific interest in veterinary trauma surgery – which was ahead of his time in the 1950s. Another influential member of Jean's family was his uncle, Paul Bessou, an academic neurophysiologist with a creative turn of mind. Immersed in this medical environment, he naturally chose medicine – indeed, orthopaedic surgery – as a career.

Probably as a result of his genetic background, Jean was endowed with an extraordinarily open and curious mind. In an audacious move, he applied for and was awarded a competitive travelling fellowship, offered by the Le Figaro newspaper, to visit the Campbell Clinic in Memphis, Tennessee. For a young resident in France in the 1970s, it was a courageous move indeed to leave his alma mater and to venture to America. The southern drawl was only one of the many obstacles he encountered. In the heady environment of Campbell's orthopaedics department, under the supervision of the renowned Harold Boyd, young Jean was introduced to the efficient and organised practices found in large American institutions. Thanks to his broad-minded boss, Guy Utheza, after this fellowship Jean was able to reintegrate into his former department, and was given the freedom and support he needed to make rapid progress in his field of interest: the hip.

Jean Puget contributed enormously to the management of complex hip problems involving large losses of acetabular bone. He understood that proximal femur allografts could be used to replace the acetabulum in cases of bone loss and defects owing to oncological conditions, or to loosened cups surrounded by massive osteolysis.

In France, this operation became known as the "Puget". Jean also developed a unique total hip system, the PP, with which he and his team were able to solve the difficult problems posed by hip revision procedures.

Jean Puget published many books and research articles focused on the hip. He edited two detailed monographs on hip arthroplasty, in 2005 and in 2010. At the time of his death, he was collaborating with his colleague Jean Tricoire on a book celebrating the orthopaedic history of south-western France. Starting in 1999, he organised a major and very successful biennial international meeting in Toulouse, aptly named "The Hip". Colleagues worldwide attended this important and innovative congress.

Always generous with his time, Jean Puget devoted much of it to his students, trainees and colleagues. Not only a researcher, developer and teacher, Professor Puget was also Chair of the Orthopaedic Division and Head of Oncology at CHU, Toulouse University Hospital. In the later years of his career he was very much involved in setting up the merger between the university hospitals of Toulouse, Purpan and Rangueil, and in the design of a large new multi-room operating suite to accommodate both institutions.

He was also active on the national and international orthopaedic scene. He was President of the French Society of Biomechanics in 1992, and had been a member of the executive committee of the Osteoporosis Research Group (GRIO) since 2000. Jean Puget served as President of the French College of Orthopaedic Surgery from 2001 to 2007. In 2008, he was elected President of the French Orthopaedic Society (SOFCOT).

With his broad outlook and extensive medical and orthopaedic experience, Jean Puget was always interested in the ethics of our profession. With this interest in mind, EFORT approached Jean to become the Chairman of a new EFORT Ethics Committee, along with Michael Benson, Luigi Zagra and Miklós Szendroi. The Ethics Committee was approved as an EFORT standing committee in Berlin in 2012, and Jean Puget gave its first official report in Istanbul during the General Assembly. He was also a co-opted member of the Executive Committee of EFORT.

Jean Puget was an outstanding and innovative surgeon with an astute intellect and a great sense of humour. He will be remembered for his openness, broad-minded world outlook, and intellectual honesty. Jean left us too early and he will be missed by many. EFORT extends its condolences to Anne-Marie, his wife, and to Anne and Bertrand, his children, and to all the members of his family.

#### Pierre Hoffmeyer MD, EFORT Immediate Past President





#### **EFORT Head Office**

ZA La Pièce 2 1180 Rolle, Switzerland

Phone +41 (0)21 343 4400 +41 (0)21 343 4411 Fax

office@efort.org www.efort.org





