

DAILY EDITORIALS | SESSIONS NOT TO MISS | ORIGINAL ARTICLES | LBAS



INSIDE... Proffered Paper Session BIOMARKERS AND TUMOUR HETEROGENEITY 09.00 – 10.45 Cordoba



SESSION Proffered Paper Session NSCLC, METASTATIC 1 16.00 – 17.45 Madrid





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Welcome to ESMO 2014 in Madrid

ESMO 2014 was officially opened yesterday in front of a large crowd of delegates by ESMO President, Professor Rolf A. Stahel from University Hospital Zurich, Switzerland, who welcomed attendees to "The most important ESMO Congress yet."

his, he said, was a Congress of records. The number of delegates attending ESMO 2014 has increased by 15% compared with ESMO 2012, from 16,000 to over 18,500, confirming that the oncology community considers ESMO to be one of the most important medical congresses in the world. And it's not just European oncology professionals who choose ESMO. "The numbers of Congress participants from outside Europe support this as a global collaboration and a truly international event," he said.

Professor Stahel spoke of his vision to make ESMO a dynamic force in facilitating research in Europe.

"We must develop new ways to work together on a local, national and international level"

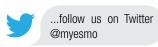
- HE TOLD DELEGATES

ESM0 should be a central force in co-ordinating co-operation between researchers and national research groups. ESM0 also aims to foster relationships with national cancer centres to assist with the dissemination of their expertise and experience to national and local research groups. The ESM0 Congress provides a global forum in which to present cutting-edge research and share expertise on best clinical practice. "Perhaps more importantly," suggested Professor Stahel, "It offers delegates the rare opportunity for faceto-face meetings, which promote information exchange and networking. It is these types of interaction that effectively promote progress in research."

ESMO members are particularly well placed to make the most of the Congress experience, Professor Stahel went on to explain, with benefits combining hospitality, customer service and educational and scientific updates. The advantages of membership are not lost on the oncology community, and ESMO membership has grown nearly 150% in the last 10 years, currently nearing 10,000 members. "Particularly encouraging is the increase in the number of female oncology professional members, who now make up around 38% of the membership, something that was instrumental in the development of ESMO's Women for Oncology (W40) initiative launched by my predecessor Professor Martine Piccart. Institute Jules Bordet. Belgium." he said. Professor Stahel announced the next step in this initiative, the ESMO Women for Oncology Award, which will recognise people who have significantly contributed to support the career development of women in oncology and actively who have worked to sensitise organisations to perceive the female oncology workforce as a valuable resource

"We in ESMO are particularly proud of our excellent reputation for education and the development of educational resources," continued Professor Stahel. A number of educational efforts are aimed at a group ESMO is passionate about nurturing: the Young Oncologists, who have their own track during the Congress. "Young oncologists are the future

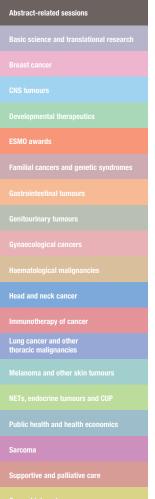
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Daily Editorial

27.09.2014



General interes

Young oncologist session

For all Congress delegates

Network name: ESM02014 User name: Your ESM0 ID: this is the number printed on your delegate badge. All ID codes have to be 5 digits, if your badge ID is 3–4 digits please add a 0 at the start of the ID. Password: ESM02014

Official webcast: include all the sessions of the official programme, where speaker permission is granted, and will be available through the myESM0 area within 24/48 hours. Available for all ESM0 members and Congress delegates who purchased the webcast package. Delegates can purchase the webcast package onsite for 36 euros from the registration desks.

Daily news: available in the breakfast area of selected hotels and on esmo.org

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Evandro de Azambuja, Congress Daily Editor-in-Chief Institut Jules Bordet, Brussels, Belgium

Precision medicine: The two sides of the coin

Today ESMO 2014 begins in earnest. Over the course of the Congress, the Congress Daily Editorial Team – myself, Associate Editors Markus Joerger, Floriana Morgillo and Guest Associate Editor Giuseppe Curigliano – will be keeping you up to date with the latest information presented at the meeting.

A long with thousands of oncology professionals from across Europe and beyond, I cannot wait to learn about the latest advances in all areas of cancer care, but I am sure that one particular area will be in the spotlight: precision medicine.

We have been talking excitedly about pharmacogenomics, personalisation and targeting for 20 years or more. But I am glad precision medicine in cancer care is the theme this year because I believe that we are at a tipping point. Precision medicine is at last moving – and fast – from theory to practice, from bench to bedside. We are witnessing significant improvements in patient outcomes and, in some cases, in patients' quality of life.

"We are privileged to be able to serve cancer patients during this exciting time in cancer research, with the rapidly expanding diagnostic and therapeutic armamentarium available to us today allowing us to design and deliver clinical trials that are rapidly changing the standard of care," commented Professor Johann de Bono, ESMO 2014 Scientific Committee Chair.

I have been fortunate to participate in this development. I have watched how advances in high-throughput technologies, from microarrays to next generation sequencing, have paved the way for the first targeted therapeutics.¹ The pace of development in oncology is one of the fastest.

We all know the story of the renowned cancer drug imatinib, which, after initial success, stalled as have many early targeted therapeutics. But this year's congress shows that we are again making promising progress as we build on work over the last decade to characterise the genomes of thousands of patients in different cancer types.² Several Proffered Paper and Special Symposium Sessions are set to reveal some of the very latest tumour characterisations, highlighting new classifications, predictive biomarkers and potential new therapeutic targets. Also, we have learned that some cancers are not only one type of disease but rather many. A good example is breast cancer. In the early 2000's, breast cancer was considered only one disease; with new technologies, four subtypes have been reported. These have helped in the development of cancer therapies by enabling the selection of patients most likely to respond to a particular new type of therapy to be included in clinical trials. Nowadays, breast cancer can be divided into many more tumour subtypes.

So can we start to herald precision medicine as a revolution in cancer care? Let us not forget that most of the precision therapies that we will discuss this week are still in clinical development. However, as the costs of genome sequencing continue to drop, personalisation will become increasingly common over the next decade. It will become a straightforward matter to classify tumours against a complex array of biomarkers and to use this information to optimise therapy combinations.

With this goal in mind, one of the big pushes in research at the moment is to identify predictive biomarkers for new and existing therapies. While laboratory analyses continue to identify potential markers, clinicians are working on new trial designs, which will generate suitable data to assess their predictive and/or prognostic role.

It is always a challenge to translate laboratory results into clinical benefit, but when it comes to genomic research, the scale of the problem is so much bigger. The volume of data produced by high-throughput systems is staggering. So laboratory and clinical work must be accompanied with substantial investment in bioinformatics research; we desperately need new algorithms, data mining and powerful analysis to identify meaningful biomarkers and test their prognostic/ predictive roles.¹ This will be particularly important where only a small amount of tumour tissue is available to sample.

Of course, tissue samples taken at diagnosis are just a snapshot of a tumour's genomic landscape, which typically evolves over time.3 One cannot forget the tumour heterogeneity, which may be responsible for tumour resistance. To what extent can precision medicine overcome these dynamics? One option is to target multiple tumour pathways at once. Already we are seeing a transition from the 'single biomarker, single drug' approach to combinations of two or more therapies based on more complex pathways. Also, in some cases, targeted agents are given to patients without any chemotherapy. However, toxicity may limit the number of combination therapies available to a given patient. Therefore, oncology researchers are focusing on how to use biomarker data to optimise combinations for the best outcomes with minimal toxicity.

However, while the research landscape is full of promise, can European healthcare systems afford the luxury of personalisation? I believe the economic analysis looks favourable. For example, it is widely believed that the cost of patient genome sequencing should soon shrink below the \$1000 mark. The emphasis on finding predictive biomarkers will help to make targeted therapies more affordable. Development costs for targeted therapeutics may be lower too. We are already beginning to see the design of trials with alternative endpoints to traditional drug trials and the use of adaptive trial designs, which consider information as it accumulates throughout a trial, and this should help to speed up development and reduce costs

So much progress, yet so many questions! Even after 20 years of debate – and 20 years of research – we still do not have all the answers. Over the next few days these debates will continue, but I for one am full of hope. Precision medicine is making steady but significant progress. The lives of our oncology patients are being changed.

- 1. Servant N, et al. Front Genet 2014;5:152
- . Garraway LA, et al. J Clin Oncol 2013;31:1803-5
- 3. Garrway LA, et al. Cancer Discov 2012;2:214-26

opinion leaders.

NEWS

Opening Ceremony continued

of our Society and our profession," Professor Stahel commented. From next year, ESMO is opening up membership to students in the hope of encouraging talented young professionals to choose medical oncology as their specialty.

Professor Stahel also announced that next year ESMO is taking the Congress to Asia and the first ESMO Asia Congress will take place in Singapore, 18–21 December 2015. With almost 20% of our current members from Australasia, ESMO is responding to this development in our membership base by working to meet the needs of members in expanding regions.

Last, but by no means least, Professor Stahel saw more good reasons to celebrate in 2015, with ESMO's 40th anniversary, for which the Society hopes to build on the accomplishments made during its first four decades.

Following on from Professor Stahel, ESMO 2014 Local Officer, Dr Ramon Colomer from Hospital Universitario de La Princesa, Madrid, Spain, chose co-operation as the focus of his address. He described the changes and advances in oncology in Spain in general and in Madrid in particular, and of the success achieved by the collaborative efforts of international societies like ESMO, national groups such as SEOM, and patient groups. More from Dr Colomer will be featured in tomorrow's edition of the Congress Daily.

ESMO Scientific Chair, Professor Johann de Bono from The Royal Marsden Hospital, Sutton, UK, then delivered his Scientific Address in which he expanded on the choice of Precision Medicine in Cancer Care as this year's Congress theme, telling



Professor Rolf A. Stahel and Dr Ramon Colomer

delegates that, "Our vision is for better patient outcome and more efficient healthcare, faster and more cost-effective drug development and utilisation of circulating biomarkers." Abstract submission this year increased by 24% compared with ESMO 2012, and more than onethird of the accepted abstracts involved predictive biomarkers and targeted drugs focussing on novel and established therapeutic targets. ESMO Fellowship and Award Committee Chair, Dr Josep Tabernero from Vall d'Hebron University Hospital, Barcelona, Spain, then presented ESMO awards to three members of the European oncology community. More on each of these awards will be featured in Congress Daily today and in the following days.

Breakthroughs in immunotherapy

Immunotherapy of cancer

A s a concept, immunotherapy seems to be an ideal option for cancer therapy: using the body's own defences to fight and destroy abnormal, cancerous cells. Now, after years of slow progress, clinical trials are finally producing some exciting results, with some of them demonstrating increased survival for patients with metastatic disease.

"We are seeing encouraging responses in patients"

COMMENTED DR GEORGE COUKOS FROM THE CENTRE HOSPITALIER UNIVERSITAIRE VAUDIOS, LAUSANNE, SWITZERLAND

Indeed, last year *Science* labelled immunotherapy as the science advance of the year.

"We now have a number of approved immunotherapeutics, with several more in advanced development. In my opinion, this is one of the most exciting fields to be working in," added Dr Coukos.

A major breakthrough has been the development of checkpoint inhibitors – typically monoclonal antibodies that block the activity of

immunosuppressive ligands released by many cancer cells. For example, nivolumab inhibits the binding between the T cell receptor PD-1 and its ligands, thereby preventing T cell differentiation. In the phase II CheckMate-010 trial of nivolumab for renal cell carcinoma in patients receiving up to 3 prior therapies (including at least one vascular endothelial growth factor-targeting agent), 20– 22% of patients responded and the median overall survival was 18.2 months.¹

The cancer vaccine sipuleucel-T won approval from the FDA in 2010 as the first ever therapeutic vaccine for cancer.² The treatment harvests leukocytes from a patient and incubates them with a fusion protein made up of prostatic acid phosphatase and granulocyte-macrophage colony stimulating factor (GM-CSF). This activates the patient's immune cells, which are reinfused to trigger an immune response against cancer cells.

Learn more about TILs in today's Proffered Paper Session on the Immunotherapy of Cancer 11:00 – 12:15, Barcelona: Abstract 10480

Another recent immunotherapeutic approach under investigation is the exploitation of tumour infiltrating lymphocytes (TILs). A process called adoptive cell therapy essentially grows quantities of TILs from a patient's tumour for reinfusion to boost the antitumour immune response.

"Immunotherapy will add to the treatment armamentarium for many cancer patients, especially in kidney and non-small-cell lung cancers and melanoma, where slow growth favours the immunological approach," said ESM0 2014 Congress President Professor Rolf Stahel from the University Hospital Zürich, Switzerland. "It is crucial that oncologists stay abreast of these advances."

In addition to precision medicine, immunotherapy is also a focus of the ESMO 2014 congress.

To help you keep up to date, talks will cover all key aspects of immuno-oncology, with a Keynote Lecture on Delivering Precision Immunotherapy today 13.00 – 13.45, Barcelona

In 2013 ESMO held its first Immuno-Oncology Symposium. The symposium was a resounding success, with oncologists coming from across Europe learned about recent clinical advances, including trial updates on drug combinations and sequences. The event will take place again this year in Geneva, Switzerland.

- Motzer RJ, et al. J Clin Oncol 2014;32(Suppl 5s): Abstract 5009
- http://www.fda.gov/BiologicsBloodVaccines/ CellularGeneTherapyProducts/ApprovedProducts/ ucm210215.htm

ESMO Symposium on Immuno-Oncology 2014, 21–22 November, Geneva, Switzerland. Find out more and register: http://www.esmo.org/Conferences/ Immuno-Oncology-2014

Helpful

Congress Information

Abstracts

Gain quick and easy access to ESMO 2014 abstracts from our scientific journal Annals of Oncology. Abstracts will also be on a USB key; the voucher is included in the delegate bag.



ePosters

A USB key voucher for the ePosters will be included in the delegate bag. Eight terminals with large plasma screens for poster viewing and communicating with presenters are available in Hall 8, ePoster area.

Madrid 3 for 2 Membership offer!

Stop by and see us at the Membership Services Desks in the registration area, at the Membership Services Centre or in the ESMO Members' Lounge to benefit from this special congress offer. Exhibition Hall - Booth S2

ESMO booth

For all educational products and services. Located in the Exhibition Hall -Rooth S2





For 2014 The ESMO Members Lounge

Our exclusive 'members only' area, **located in Hall 10**, has been designed to provide ESMO members with an exclusive area to network with other members of the ESMO community, access your email, relax in-between sessions and simply recharge your batteries.

Pathway of the day: RAS/RAF/MEK/ERK



he RAS/RAF/MEK/ERK pathway (also known as the MAPK pathway; Figure) regulates key cellular functions including proliferation, survival, differentiation, angiogenesis and migration. Activation of the pathway at the cell surface is initiated by ligand binding to receptor tyrosine kinases. The resulting signal cascades sequentially via RAS, RAF, mitogen-activated protein kinase (MEK) and finally extracellular signal-regulated kinase (ERK); the latter regulates gene transcription in the cell nucleus.

Activating point mutations of RAS genes (most often the KRAS variant) are generally acquired early in tumourigenesis and are found in approximately 30% of human cancers, such as pancreatic, colorectal and lung cancers.

Three variants of the RAF gene exist, which encode for the respective ARAF, BRAF and RAF-1 (or CRAF) proteins. Mutations in the serine threonine kinase gene, BRAF, occur frequently in a number of cancers, particularly melanoma, papillary thyroid, colon and serous ovarian cancers. The second-generation BRAF inhibitors, Dr Caroline Robert,

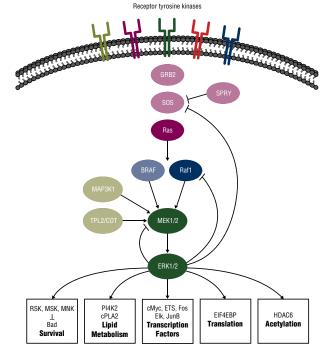
Institut Gustave Roussy, Paris, France

dabrafenib and vemurafenib, are approved for the treatment of advanced melanoma.

Although MEK gene mutations occur rarely and are associated with a small proportion of melanoma, lung and colon cancers, MEK is a key downstream protein in the RAS/RAF/MEK/ ERK pathway and thus a prime target for inhibitor therapy. Sensitivity to MEK inhibitors is enhanced in tumour cells harbouring RAS pathway mutations. The MEK inhibitor, trametinib, is approved for the treatment of BRAF-mutated melanoma. Improved clinical benefit has been demonstrated with combined BRAF and MEK inhibitor therapy. For instance, dabrafenib/trametinib combination enhances response rates and progression-free survival in advanced melanoma.[™]

1. Flaherty KT, et al. N Engl J Med 2012;367:1694-703

Hear Dr Robert's presentation of the results of the COMBI-v phase III trial comparing combined BRAF/MEK inhibition with BRAF inhibition alone in patients with BRAF V600E/K mutation-positive cutaneous melanoma on Monday, 16.30 – 16.45, Madrid: Abstract LBA4_PR



Model of the ERK1/2 MAPK signaling network controlled by receptor tyrosine kinases and Ras. Clin Cancer Res 2014;20:2516–22.

ESMO Lifetime Achievement Award



Professor Rolf A. Stahel, Professor Peter Boyle and Dr Josep Tabernero

A t yesterday's opening session, in front of a large crowd, internationally renowned epidemiologist Professor Peter Boyle from the University of Strathclyde, Glasgow, UK, stepped up to receive the ESMO Lifetime Achievement Award.

Chair of the ESMO Fellowship and Award Committee Dr Josep Tabernero from Vall d'Hebron University Hospital, Barcelona, Spain, presented the Award, which commends Professor Boyle's long-standing contribution to cancer epidemiology, education and prevention.

Dr Tabernero described Professor Boyle as, "A global reference in cancer education and prevention, whose exceptional expertise is continuously called upon by policy makers, scientific societies, academies, foundations, and patient advocacy groups."

In 2006, Professor Boyle became the first nonmedical oncologist to be elected for full ESMO membership. Since then he has edited international cancer reports and led a project to co-ordinate the European Parliament's cancer research. Today, among his many roles, he works as a Professor of Global Public Health and President of the World Prevention Alliance – an initiative that he founded.

Although the award recognises a lifetime's work, Professor Boyle considers his role to be far from

HEAD AND NECK CANCER ON TRIAL

Don't miss today's Proffered Paper Session on Head and Neck Cancer.

Late-breaking abstracts will give data on: the phase III LUX-Head & Neck 1 study comparing afatinib with methotrexate for the treatment of recurrent/metastatic head and neck cancer progressing on platinum-based therapy (Abstract LBA29); and an analysis of serum biomarkers and gene mutations associated with clinical outcomes in the phase III SELECT study investigating lenvatinib in thyroid cancer (Abstract LBA30)

Session Info: Proffered Paper Session, Head and Neck Cancer

DAY/DATE: SATURDAY 27 SEPTEMBER 09.15 – 10.45 ROOM: BILBAO "I am honoured, both for myself and for my discipline. To be recognised for my contributions to oncology motivates me to redouble my efforts."

- PROFESSOR PETER BOYLE

over. Looking to the future he wants to tackle the dramatic difference in cancer care between rich and poor countries, a goal he shares with ESMO. He explained, "If I could use this award for just one thing, it would be to draw attention to this." disparity and address it with conclusive action."

If anyone can handle such a task, surely it will be Professor Boyle. As Dr Tabernero said, "Peter's dedication, his ability to engage us all in ultimately reversing the many disparities that exist in access to optimal cancer treatment and care across borders, make him so particularly deserving of this award."



Young Oncologists: How to achieve career success



Young Oncologists Vesalius talk

Young oncologist sessions

riday evening saw young oncologists pick the brains of three established professionals to learn the steps to career success.

ESMO's Young Oncologist session (YO) mentor Dr Christoph Zielinski spoke about how his career has developed. Dr Zielinski now heads the oncology department at the University Hospital of Vienna and is co-ordinating the Comprehensive Cancer Center of Vienna, Austria but he did not always have his sights set on oncology. Upon graduation he looked to immunology – the exciting science of the time. It was only when he took up a position at the Cancer Research Center in Boston, US that oncology became his passion, inspiring him to continue cancer research upon his return to Europe.

For Dr Zielinski, studying abroad is key to success. "International fellowships offer the opportunity to develop translational research skills. I advise all aspiring academics to spend at least 3 years abroad to pursue a research project."

Dr Zielinski knows first-hand how to make the most out of international opportunities. He advised, "When selecting where to stay, do not be afraid to approach a smaller institution: while it may lack international reputation, it will give you more chances to get involved and hone your skills." Dr Nicholas Pavlidis from the University of Ioannina, Greece, commented on his own experiences of studying in America and London. "I agree with Dr Zielinski that studying abroad is a brilliant opportunity. It undoubtedly helped me to develop as a professional oncologist."

Dr Pavlidis later returned to Greece to found a medical school at the University of Ioannina. "Of course, returning to a small country such as Greece will be trickier today in our harsh economic climate," he added. "However, I do encourage you to return home to share you new skills."

Medical oncologist Dr Angelo Di Leo also offered advice to young oncologists looking to go into research. Dr Di Leo knows how to excel in the laboratory: his early research explored personalised chemotherapy and today he works on biomarkers for breast cancer.

Together, these senior peers revealed the wealth of international opportunities open to young oncologists, offering advice on how to make the right decisions in the face of daily pressure and 'burn out'.

After the talks, delegates enjoyed a unique opportunity to ask questions and chat informally with these mentors. As ever, networking is the key to unlocking doors to career progression.

Don't worry if you missed the Vesalius talk – ESMO 2014 offers many more opportunities to network. The ESMO Members' Lounge offers the perfect place to network for career development; you also have access to workstations – why not visit ESMO's YO Corner while you are online?

For further tips on how to get ahead, remember to attend Monday's YO Forum (09.00 – 10.30, Pamplona). Professor Peter Schmid, Professor of Experimental Cancer Medicine at Imperial College London, UK, will begin the session with an overview of the YO mentoring scheme. Could a mentor make a difference to your career? If paperwork gets you down, then make sure you stay and listen to Dr Fatima Cardoso from the Champalimaud Cancer Center, Lisbon, Portugal who will offer practical advice on how to write successful grant applications.

The YO track is packed with opportunities to get practical advice, expand your contacts and kindle your motivation to achieve. Whichever sessions you pick, expect to be inspired.

Young oncologists who wish to follow the mentors' advice may be interested in the ESMO Fellowship Programme, which will be introduced during Monday's YO Special Session 11.00 – 12.30, Pamplona.

Join us!

The reference society for medical oncologists!

Are you part of the ESMO community? Membership brings many perks not just at this <u>Congress but</u> throughout the year.

Chair of the ESMO Membership Committee, Dr Ravan Popescu from the Hirslanden Medical Centre, Aarau, Switzerland, says, "Being a part of the ESMO community provides members with representation, gives members a united voice and guarantees access to information."

Have you already been to the exclusive Members' Lounge (Hall 10)? Take a moment to relax, catch up with colleagues and make important new contacts.

Do not worry if you feel you are missing out – it is not too late to become an ESMO member right here in Madrid!

Just drop by the ESMO Membership Services Centre, S2 in the Exhibition, where friendly ESMO staff will guide you through the many benefits of joining the ESMO community. Whether you are looking for full access to Annals of Oncology, the Congress webcasts or want regular updates on the latest research and clinical guidance, ESMO membership has something to offer you.

As a member of our community you have unrivalled opportunities to network with peers and senior fellows. These contacts could lead to important collaborations and career progression in the future.

Exclusive offer!

New and existing members can purchase 3 years of membership for the price of 2! But hurry, this offer is only available while you are here in Madrid!

Also at the ESMO Booth, members can pick up our latest publications and learn how to access OncologyPRO, a free online portal for members packed with Congress webcasts and educational resources.

While you are at the Booth, take a stroll around the Society Village – a great opportunity to meet representatives from national oncology societies who can tell you more about local activities and support networks.

ESMO Membership Booth Open Saturday to Monday in the Exhibition Hall

Membership Services Desks Open every day in the Registration Hall

Membership Services Centre Open Saturday to Monday in the Exhibition Hall

LATEST NEWS

OF BEVACIZUMAB TO CHEMOTHERAPY IMPROVE SURVIVAL IN ADVANCED CERVICAL

Find out tomorrow in a latebreaking abstract presentation from

Dr Krishnansu Tewari from Irvine

Medical Center, Orange County, CA,

USA, who will be discussing the final

overall survival results of a phase

ESMO Examination – tonight

Tonight oncologists across the globe will sit the ESMO Examination (17.30–20.00, Hall 7). Here in Madrid, candidates will join international colleagues to answer 100 multiple choice questions and demonstrate their broad knowledge of medical oncology.

The ESMO Exam certificate, awarded to all candidates who score 60% or more, is valid for 5 years.



ESMO Clinical Practice Guidelines



he ESMO Clinical Practice Guidelines are an invaluable source of the latest research and clinical data on a wide range of tumour types. Prepared by leading experts in the field, these evidence-based guidelines provide clinicians with recommendations for the diagnosis and management of different cancers, to enable them to deliver the best standard of care for their patients.

For 2014, there are updates to the following Guidelines: Metastatic Colorectal Cancer, Follicular Lymphoma, Metastatic Non-Small-Cell Lung Cancer, Bladder Cancer, Hodgkin's Lymphoma, High-Grade Giloma and Anal Cancer. In addition, there are two brand new Guidelines on Myelodysplastic Syndromes and Bone Heatth in Cancer Patients. Visit the ESMO Booth at the Congress for more information or go to the website http://www.esmo.org/Guidelines-Practice/ Clinical-Practice-Guidelines.

Two sessions tomorrow, will see case presentations and discussions on a variety of tumour types led by the experts involved in producing the guidelines. ■

Oncology across the globe: ESMO's Joint Symposia

Precision medicine – the theme of this ESMO 2014 Congress – is at the frontier of oncology. In the coming days ESMO will team up with oncology societies from as far afield as Asia, Africa and America for 10 Joint Symposium Sessions, many of which will focus on issues relevant to the evolution of personalised medicine and stratified cancer care.

Day/Date:	Saturday 27 September
Room:	Granada
Session Info:	ESMO-CSCO: Global collaboration in phase I cancer drug development
Session Time:	09.15 - 10.45
Room:	Cordoba
Session Info:	ESMO-ESP: Tissue markers for immuno-oncology
Session Time:	11.00 - 12.30
Room:	Alicante
Session Info:	ESMO Emerging Countries Committee (ECC) - AORTIC-SLACOM-UICC: Personalised medicine with limited resources: Myth or reality?
Session Time:	14.15 - 15.45

Do not miss this opportunity to

put your questions on diagnosis and treatment to some of the leading lights in cancer care!

Day/Date:	Sunday 28 September
Room:	Sevilla
Session Info:	ESMO Clinical Practice Guidelines 1
Featuring:	Advanced NSCLC, gastric marginal zone lymphoma or MALT-type, high-grade glioma and HPV in head and neck cancer
Session Time:	10.45 – 12.45
Session Info:	ESMO Clinical Practice Guidelines 2
Featuring:	Advanced melanoma, gestational trophoblastic disease, Waldenström's macroglobulinaemia and cervical cancer
Session Time:	13.45 – 15.45

Day/Date:	Sunday 28 September	
Room:	Valencia	
Session Info:	ESMO-JSMO: How to integrate genome sequencing data in oncology	
Session Time:	09.15 - 10.45	
Room:	Bilbao	
Session Info:	ESMO-EONS: Oral tumor therapy: Collaboration and coordination of healthcare professional activities to enhance patient adherence	
Session Time:	14.15 - 15.45	
Day/Date:	Monday 29 September	
Room:	Granada	
Session Info:	ESMO-ASCO: The evolution of the clinical trial landscape	
Session Time:	11.00 - 12.30	
Room:	Valencia	
Session Info:	ESMO-EANM: Impact of molecular imaging on management of lymphoma	
Session Time:	11.00 - 12.30	
Room:	Granada	
Session Info:	ESMO-SEOM Joint Symposium: Investigation driven precision oncology	
Session Time:	14.15 - 15.45	
Room:	Pamplona	
Session Info:	ESMO-ESTRO-ESSO: Integration of local therapy with targeted agents in oligometastatic breast cancer	
Session Time:	14.15 – 15.45	
Room:	Alicante	
Session Info:	ESMO-SIOPE Session: Long-term side effects in adolescent and young adults	
Session Time:	09.15 - 10.45	

Saturday 27 September 2014 - ESMO European Society for Medical Oncology

NEWS

Young Oncologists: Working towards success

YO Masterclass

In the YO Masterclass yesterday afternoon, which was run in collaboration with the European Association for Cancer Research, four speakers from across Europe discussed exciting areas where basic science is being integrated into clinical research. You can read a report of this session in today's Congress Daily.

Young Oncologist Track

The Masterclass marked the beginning of four packed days of sessions designed specifically for early career oncologists: the Young Oncologists track. YO sessions include educational talks, workshops and discussions, packed with practical advice guaranteed to enhance your skills for research and clinical practice.

The topics were chosen by young oncologists from across Europe, so you can be sure to find plenty of relevant support.

Don't miss the YO Breakfast sessions (08.00 – 08.45, Palma) which cover some of the more stressful and challenging situations you may face: how to address the media (Saturday), finding a good work-life balance (Sunday) and exploring the boundaries of the doctor-patient relationship (Monday).

Young Oncologist Fellowships

ESMO prides itself in the support that it offers for young oncologists. At Monday's YO Special

Session (11.00 - 12.30, Pamplona) you can learn more about the fellowship program and hear from previous fellowship winners Floriana Morgillo from the Seconda Università degli Studi di Napoli, Italy, and Hatem Azim from Insitute Jules Bordet, Brussels, Belgium as they present their projects here at congress.

Floriana knows that winning the fellowship was a significant step forward for her career and that the contacts she made with international scientists were essential for collaboration as she continues with her research.

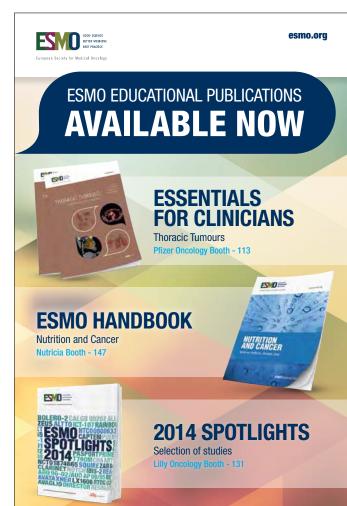
For Hatem, the fellowship was a career defining opportunity. It allowed him to combine several research projects and complete a PhD. Today he works as the associate scientific director of a breast cancer research unit in Brussels, Belgium.

Find out more - the YO Corner

YO Corner is a section of ESMO's website dedicated to early career oncologists. Here you will discover a wealth of advice and information to develop your skills and progress your research.

Plus, you will find some newly launched features:

Image of the Month challenges you to test your skills. Can you make a diagnosis from this month's image, sent in by Dr Carmen Herrero Vicent and colleagues from Instituto Valenciano de Oncología, València, Spain.



The YO Corner Journal Club can help you to keep up to date with recent research with critical reviews of the latest key papers from YO members across Europe. If you would like to write your own review, please get in touch.

We make it easy for you to stay in touch with your newly-found YO friends too. Just check out our social media channels:

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- Twitter start tweeting right away and tell us about your congress experience so far
- LinkedIn

ESMO prides itself on it supporting its Young Oncologists. Don't miss the chance to use the opportunities ESMO provides to get practical advice and enhance your skills to help you make the best of your research opportunities.

Find more online

http://www.esmo.org/Conferences/ESMO-2014-Congress/Young-Oncologists-Track http://www.esmo.org/Career-Development/Young-

Oncologists-Corner



KEY EDUCATIONAL SESSIONS SATURDAY 27 SEPTEMBER

Biology must guide the treatment i 09.00 - 10.30	n sarcoma Pamplona
Symptoms in oncology 09.15 – 10.45	Valencia
Clinical issues in metastatic NSCL(11.00 – 12.30	C Madric
Missed it? Session repeated Sunday: 11.00-12.30	Pamplona
Management of breast cancer in s	pecific
populations 11.00 – 12.30	Sevilla
Missed it?	
Session repeated today: 16.00 – 17.30	Valencia
Skin tumours update 11.00 – 12.30	Granada
Clinical impact of tumour biology in management of oesophago-gastric 11:00 – 12:30	
A multidisciplinary approach to loc	oregionally
advanced rectal cancer 16.00 – 17.30	Sevilla
Missed it?	007110

Session repeated Sunday: 11.00 – 12.30

Granada

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ESMO OXFORD

Presidential Symposium 1

DAY/DATE: SUNDAY 28 SEPTEMBER 16.00 – 17.30 ROOM: MADRID

At the first Presidential Symposium tomorrow. speakers will present the results of phase III studies with the potential to influence current treatment approaches in metastatic breast cancer and non-small-cell lung cancer (NSCLC).

Abstract: 3500 PR Final results of the phase III CLEOPATRA study, including overall survival, in which HER2-positive metastatic breast cancer patients were treated with the novel first-line treatment combination of pertuzumab. trastuzumab and docetaxel

Presenter: Dr Sandra Swain, Washington, DC, USA

Abstract: 11730 Results of the phase III MAGRIT study to assess the efficacy of the recMAGE-A3 + AS15 cancer immunotherapeutic as adjuvant treatment for patients with resected MAGE-A3positive NSCLC

Presenter: Dr Johan Vansteenkiste, Leuven, Belgium

Abstract: LBA2 PR Results of the phase III IMPRESS study investigating whether the addition of gefitinib to chemotherapy was more effective than chemotherapy alone in treating epidermal growth factor receptor (EGFR) mutation-positive NSCLC progressing on first-line gefitinib

Presenter: Dr Tony Mok, Hong Kong, China

CANCER: SENSITIVITY TO ENDOCRINE THERAPY

Resistance to endocrine therapy is a serious obstacle in the battle against breast cancer. This important issue is addressed in a Patient Cases Session tomorrow.

Led by Dr Philippe Bedard from Princess Margaret Hospital, Toronto, Canada, and Dr Javier Cortes Castan from Instituto Oncologico Baselga, Barcelona, Spain, the session will discuss how to overcome resistance in oestrogen receptor-positive breast cancer and how to manage the heterogeneity of triple-negative breast cancer.

As this is such a controversial area you should make sure to attend!

Session Info: Patient Cases. Targeting intrinsic

subtypes of metastatic breast cancer: The spectrum of sensitivity to endocrine therapy

SUNDAY 28 SEPTEMBER 08.00 – 09.00 ROOM: GRANADA

CHALLENGE YOUR EXPERT

SATURDAY 27 AND SUNDAY 28 SEPTEMBER Medical treatment for advanced endometrial cancer

08.00 - 09.00	Alicante
Is hormone therapy really harmless people?	in elderly
08.00 - 09.00	Bilbao

Management of relapsed germ cell tumours 08.00 - 09.00Salamanca Larynx preservation: How should we decide

the best treatment? 08.00 - 09.00 San Sebastian

MONDAY 29 AND TUESDAY 30 SEPTEMBER Adjuvant treatment of breast cancer 08.00 - 09.00 Alicante

Current diagnosis and treatment of CUP 08.00 - 09.00 San Sebastian

SCLC: Current approaches and the role of radiotherapy (thoracic and PCI) in stage IV disease 08.00 - 09.00Bilbao

Thromboembolic disorders in oncology: Present status and novel agents 08.00 - 09.00Salamanca

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ESMO EVENTS APP

YO Breakfast

DAY/DATE: ROOM: PALMA

DAY/DATE: SUNDAY 28 SEPTEMBER 08.00 - 08.45 ROOM: PALMA

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NEWS

Patient Cases

SATURDAY 27 SEPTEMBER		SUNDAY 28 SE
Therapeutic challenges in oncog lung cancers	ene addicted	Targeting intrin breast cancer: endocrine thera
08.00 - 09.00	Granada	8.00 – 9.00
Multimodal treatment approache cancer	es in bladder	Challenges in o
08.00 - 09.00	Valencia	towards long-te 8.00 - 9.00
Immunotherapy or targeted ther oncogene addicted melanoma	apy for	Clinical and eth
09.15 – 10.15	Salamanca	9.15 – 10.15
Cancer evolution: What can we I molecular studies?	earn from N=1	How does one i malignancies?
10.30 – 11.30	Salamanca	10.30 - 11.30
Pregnancy, fertility and cancer		Response, neur objectives in th brain metastas
11.45 – 12.45	Salamanca	11.45 - 12.45
Challenging cases of oligometas	tatic NSCLC	
14.30 – 15.30	Bilbao	Treatment of m 14.30 – 15.30
Avoiding overdiagnosis and over		
in cancer screening: Assessing t personalised screening	he role of	The manageme from soft tissue
16.00 - 17.00	Salamanca	16.00 - 17.00

SUNDAY 28 SEPTEMBER Targeting intrinsic subtypes of breast cancer: The spectrum		MONDAY 29 SEPTEMBE Treatment of castration-re cancer (CRPC) in special	esistant prostate
endocrine therapy	Granada	08.00 - 09.00	Gran
8.00 - 9.00	Granada	Primary surgery or neoad	liuwant chomothor
Challenges in oligometastatic towards long-term survival o		for ovarian cancer: How s patients?	
8.00 - 9.00	Valencia	08.00 - 09.00	Vale
Clinical and ethical issues in	cancer genetics	Imaging decisions in hae	matological
9.15 - 10.15	Salamanca	malignancies	
How does one manage rare r	ouroondoorino	09.15 - 10.15	Salama
malignancies?		Demonstrating the emerg	ence of resistanc
10.30 - 11.30	Salamanca	10.30 - 11.30	Salama
Response, neurological funct objectives in the managemer brain metastases		Integrating systemic and therapies in a patient with hepatocellular carcinoma	h advanced
11.45 – 12.45	Salamanca	11.45 – 12.45	Salama
Treatment of medullary thyro	id cancer (MTC)	Immunotherapy in clinica	I practice
14.30 - 15.30	Salamanca	14.30 - 15.30	Vale
The management of isolated from soft tissue sarcomas (S	•	Challenges in managing b young patients	breast cancer in

8.00 - 09.00 Granada rimary surgery or neoadiuvant chemotherapy or ovarian cancer: How should we select the atients? 8 00 - 09 00 Valencia naging decisions in haematological nalignancies 9.15 - 10.15 Salamanca emonstrating the emergence of resistance 0.30 - 11.30Salamanca tegrating systemic and locoregional nerapies in a patient with advanced epatocellular carcinoma (HCC) 1.45 - 12.45Salamanca nmunotherapy in clinical practice 4.30 - 15.30 Valencia hallenges in managing breast cancer in oung patients

Salamanca

CANCER AFTER

Neoadjuvant therapy is a wellestablished treatment approach for many solid tumours. A Special Symposium tomorrow, led by Dr Evandro De Azambuja from Institut Jules Bordet, Brussels, Belgium, and Dr Suzette Delaloge from Institut Gustave Roussy, Villejuif, France, will focus on this approach in the treatment of breast cancer.

Topics being discussed include: assessing the risk of relapse in specific breast cancer subtypes according to post-neoadjuvant therapy residual disease; which biomarkers can help to define patient prognosis; and whether molecular imaging can predict pathological complete response. The problem of designing clinical trials including patients after neoadjuvant treatment will also be addressed.

Session Info: Special Symposium. Residual disease after neoadjuvant therapies

DAY/DATE: SUNDAY 28 SEPTEMBER 09.15 – 10.45 ROOM ROOM: GRANADA



Valencia 16.00 - 17.00

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ESMO recognises new centres of excellence

A t a special Award Ceremony today 15 cancer centres from around the globe will be given the prestigious recognition of 'ESMO Designated Centre of Integrated Oncology and Pallative Care' Malaga Auditorium, North Centre from 17.30.

These centres have been accredited as recognition for providing comprehensive services in supportive and palliative care as part of their routine care and for their pioneering integration of palliative care into routine cancer treatment.

The title will last for 3 years, during which time the centres will play an active role in the promotion of palliative care. ■

Attend the ESMO Designated Centre Special Session to learn about the work of these centres and to hear more from senior peers about the availability, costs and evidence for care integration Saturday 17.30 – 19.35, Malaga Auditorium

Centre	City/Town	Country
Cairo Oncology Centre (Cairo Cure)	Cairo	Egypt
Dept. Palliative Care and Symptom Control, Dept. Internal Medicine/Oncology, Maxima Medical Centre	Veldhoven	Netherlands
Hospital Universitario Puerta De Hierro de Majadahonda (Servicio de Oncologia Médica)	Majadahonda (Madrid)	Spain
Humanitas Cancer Center	Milan	Italy
Institut de Cancérologie de l'Ouest	Pays de la Loire	France
Instituto de Oncología y Radioterapia de la Clínica Ricardo Palma	Lima	Peru
Klinik für Hämatologie und Onkologie, Palliativmedizin Klinikum Bad Hersfeld	Bad Hersfeld	Germany
Maasstadziekenhuis	Rotterdam	Netherlands
Medical Oncology Unit RAO Umberto I Hospital	Siracusa	Italy
Oncologia Medica, Azienda Ospedaliera Universitaria Integrata Verona	Verona	Italy
Oncologia Ospedale Murri & Hospice Montegranaro ASUR Marche	Fermo	Italy
Palliative Care Unit, Thoraxklinik am Universitätsklinikum Heidelberg	Heidelberg	Germany
Palliative Medicine & Home-Based Hospitalization Unit, Centro Clinico Champalimaud da Fundação Champalimaud - Centre for the Unknown	Lisboa	Portugal
Princess Margaret Cancer Centre, University Health Network	Toronto	Canada
Unit of Supportive and Palliative Care in Cancer. Medical Oncology Department. Institute of Hematologic and Oncologic Diseases. Hospital Clinic of Barcelona	Barcelona	Spain

LATEST CLINICAL FINDINGS IN NEUROENDOCRINE TUMOURS

ESMO is proud to present the results of the latest research in neuroendocrine tumours (NET) in a Proffered Paper Session today. Among the exciting data being presented, do not miss:

Abstract: 11320 The final overall survival results of the phase III RADIANT-3 trial, investigating the use of everolimus for the treatment of advanced pancreatic NET, presented by Dr James Yao from the MD Anderson Cancer Center, Houston, TX, USA

Session Info: Proffered Paper Session, Neuroendocrine tumours

DAY/DATE: Saturday 27 September 11.00 – 12.20 Room: Pamplona

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LET'S THINK



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LET'S WORK



ESMO Masterclass: how to turn knowledge into cancer care

esterday the YO Track series for young oncologists set off to a successful start. At the YO Masterclass, young oncologists heard speakers from the European Association for Cancer Research discuss how to bridge the gap between basic science and clinical research.

One way to integrate scientific knowledge into trial design is to use clinical models. Dr Joan Seoane from the Vall D'Hebron Institute of Oncology, Barcelona, Spain, began the Masterclass by explaining how frustration at the lack of progress in glioblastoma treatment - "Why are we going so slowly? Why are we not able to find new compounds against this disease?" - has led him to develop a novel clinical model.

Established cell lines - which are used to model novel compounds - are out-dated, argued Dr Seoane. He questioned how such selected cells can represent the heterogeneous characteristics of human tumours, but believes that he has developed a superior alternative.

"Now we are developing 'patient-derived models'. These models are based on tumour samples obtained from patients during surgery or biopsy," he explained. Tissue samples are then quickly inoculated into several mice in locations that mimic the patient's original tumour and this allows researchers to test the efficacy of a variety of drugs.

"If performed in parallel with clinical trials, these models are powerful tools to assess response to particular compounds," said Dr Seoane. His work shows how knowledge of basic cellular genetics can directly link to clinical trials.

Laboratory research continues to expand our knowledge of tumour heterogeneity. But Professor Carlos Caldas from the University of Cambridge, UK, admitted that expanding our understanding of heterogeneity does not appear to make life easier for oncology clinicians

"On the surface, this knowledge appears to be novel and so daunting that the practise of oncology will be impossible," said Dr Caldas. But beneath the surface, this knowledge is far from new.

Oncologists were aware of clonal evolution as early as 1976. "Today, we are really relearning what we already knew," said Dr Caldas. He explained that modern sequencing and laboratory techniques show the extent of tumour heterogeneity. "If you stratify breast cancer based on genomic drivers you see that it is actually 10 different diseases and each of these diseases has completely different chromosomal rearrangements."

But while this shift in the paradigm of knowledge is undoubtedly exciting, how will it translate to clinical trials and, ultimately, patient care?

"We cannot be doing 10 biopsies on patients every 3 months," admitted Dr Caldas. "But we take blood samples all of the time."

Liquid biopsies now allow clinicians to analyse circulating DNA within the blood and Dr Caldas hopes that such biopsies will - when combined with knowledge of heterogeneity - help to identify predictive biomarkers and inform the development of novel treatments.

Liquid biopsies can detect circulating tumour cells (CTCs), a biomarker for metastasis. Dr Klaus Pantel from the Universitätsklinikum Hamburg-Eppendorf, Hamburg, Germany, discussed how recent research shows that high CTC counts correlate with high tumour cell burdens and poor progression-free survival in metastatic breast cancer.

"If you want to monitor the efficacy of a breast cancer treatment, changes in CTC counts give better indications than serum factors," said Dr Pantel. But he admitted that detecting CTCs is far from straightforward especially in the early stages of cancer where CTC numbers may be low. Even during metastasis there are 1 million blood cells to every CTC.

But Dr Pantel has developed a novel method to detect CTCs. "In this approach, a needle is put into a vein and this catches tumour cells while they are in circulation." explained Dr Pantel He added, "We have proof of principle data in several cancer types."

To bring CTC detection into the clinic, Dr Pantel knows that he will need to study metastasis and try to understand how it will change the management of cancer patients. "One of the most exciting

questions is, can we identify the cells that are responsible for metastasis?

But another question was on the mind of Dr Timothy Yap from the Institute of Cancer Research, London, UK. He asked, "How can we personalise the development of novel combination therapies?"

Dr Yan thinks that the answer lies in a new generation of clinical trials. "It is critical to incorporate real-time predictive biomarkers into trial designs," said Dr Yap. At the Institute in London, Dr Yap and colleagues are already putting this into practise.

The clinicians collect patient tumour and blood samples from patients with metastatic cancer. The samples are analysed within days and individual patients are quickly matched to suitable targeted treatments available in phase 1 trials. However, Dr Yap is first to recognise that this is by no means the perfect trial design.

"All of this is really nice, but in reality there are plenty of issues with predictive biomarkers,' he explained and commented on the many improvements that remain to be made in the design of trials, especially for novel drug combinations. Improved patient selection will be key.

Session and YO Committee Chair, Dr Raffaele Califano from The Christie NHS Foundation Trust and University Hospital of South Manchester, UK, said, "It was a great pleasure to see the session so well attended. It shows that young oncologists have great interest in linking basic research to next generation clinical trials.

Viene de la contraportada.

Viene de la contraportada: tipnaravir) - Anticonceptivos hormonales -Hippolicos (p. e), diazepam, midazolam, zolpidem) -Immunosupresores (p. e), ciolosporina, tarcolimus, sirolimus) -Estatinas metabolizadas por CIPSA4 (p. e), altorastatina, simusatatina) Es probable que el inició de la inducción soura depués de 50 dias de tradamiento regulario de CIPSA4 (p. e), ciando se suspende el tradamiento on detalemilo ha induccióne contratestada de timo padual, puediento mortanza les as contratestonas suspentibles de CIPSA4 (1926, (PCR3, CIPC3) (PCR3, CIPC3) (PCR3, CIPC3) (DE glutornoval transotra de VCPA4 (p. 1974), torus, dutantento la guada (p. detalemilo mortanza les as contratestonas de suspentibles el estantestona de tradamiento nel estado el esta metalicamente de las contratestonas de tradamiento de CIPSA4 (p. 1972), (PCR3, CIPC3), (Tabla 3: Reacciones adversas notificadas en los ensavos clínicos en melanoma

Sistema de clasificación de órganos	Frecuencia (todos los grados)	Reacciones adversas	
Neoplasias benignas, malignas y no especificadas (incluyendo quistes y pólipos)	Muy frecuentes	Papiloma	
	Frecuentes	Carcinoma cutáneo de células escamosas	
	Frecuentes	Queratosis seborreica	
	Frecuentes	Acrocordón	
	Frecuentes	Carcinoma de células basales*	
	Poco frecuentes	Nuevo melanoma primario	
Trastornos del sistema inmunológico	Poco frecuentes	Hipersensibilidad	
trastornos del sistema inmunologico	Poco frecuentes	Paniculitis	
	Muy frecuentes	Disminución del apetito	
Trastornos del metabolismo y de la nutrición	Frecuentes	Hipofosfatemia	
	Frecuentes	Hiperglucemia	
Trastornos del sistema nervioso	Muy frecuentes	Cefalea	
Trastornos oculares	Poco frecuentes	Uveitis	
Trastornos respiratorios, torácicos y mediastínicos	Muy frecuentes	Tos	
	Muy frecuentes	Náusea	
	Muy frecuentes	Vómitos	
Trastornos gastrointestinales	Muy frecuentes	Diarrea	
	Frecuentes	Estreñimiento	
	Poco frecuentes	Pancreatitis	
	Muy frecuentes	Hiperqueratosis	
	Muy frecuentes	Alopecia	
	Muy frecuentes	Erupción cutánea	
	Muy frecuentes	Síndrome de eritrodisestesia palmoplantar	
Trastornos de la piel y del tejido subcutáneo	Frecuentes	Piel seca	
	Frecuentes	Prurito	
	Frecuentes	Queratosis actínica	
	Frecuentes	Lesión en la piel	
	Frecuentes	Eritema	

Frecuencia (todos los grados) Sistema de clasificación de órganos Reacciones adversas Muy frecuente Muy frecuente Artralgia Mialgia oesqueléticos y del tejido conjuntivo Muy frecuentes Dolor en las extremidade Poco frecuente Fallo renal, fallo renal agudo Trastornos renales y urinarios Poco frecuente Nefritis Muy frecuent Pirexia Fatiga Muy frecuente Trastornos generales y alteraciones en el lugar de administración Muy frecuentes Escalofrios Muy frecuente Astenia Frequentes Enfermedad parecida a la gripe Frecuentes Poco frecuentes Disminución de la FEVI Prolongación intervalo QT Exploraciones complementarias

Exploraciones complementarias
Inscrutes
Disminucción de 18 FM

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Statema Statuto da de la Federación berecifica/resignado de medicamento. Se invita a los profesionales sinitarios a notificar las sopechas de reacciones adversas a travis de las teraciones adversas adversadver



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fficacy in Pr BREAK-3 Tri		eated Patients
	TAFINLAR (n=187)	Dacarbazine (n=63)
PFS median, months (95% CI)	6.9 (5.2, 9.0)	2.7 (1.5, 3.2)
Hazard ratio (95% CI)		24, 0.58) .0001

Investigator assessment, 25 Jun 2012, secondary data cutoff subsequent to primary data cutoff on 19 Dec 2011.

The safety profile is based on data from 5 clinical monotherapy studies and included 578 patients with melanoma. The most frequently occurring adverse reactions (≥15%) of any grade for TAFINLAR included hyperkeratosis, headache, pyrexia, arthralgia, fatigue, nausea, papilloma, alopecia, rash, and vomiting. TAFINLAR can also cause serious, less common side effects, including increasing the risk of developing new primary cutaneous malignancies, serious febrile drug reactions, uveitis, iritis, and embryofoetal toxicity.¹

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✓ Ele medicamento ediá sujeto a seguimiento addicional, lo que aglizará la delección de nueva información sobre su seguridad. Se invita a los protesionales santarios a functional de sospectas de reacciones adversas. Vel a sección 4.8, en la que se incluye información sobre como notificarias. NOMBRE DEL MEDICAMENTO Tafinia 75 mg cipsulas duras contene datarlentos in a designato de aconsente adversas. Vel a sección 4.8, en la que se incluye información sobre como notificarias. NOMBRE DEL MEDICAMENTO Tafinia 75 mg cipsulas duras: contene datarlentos in completa de exopientes. Contenido de la caso sub exos como esta de la caso de

Nivel de dosis	Pauta posológica	
Dosis completa	150 mg dos veces al día	
Primera reducción	100 mg dos veces al día	
Segunda reducción	75 mg dos veces al día	
Tercera reducción	50 mg dos veces al dia	
abla 2: Esquema de modificacione	s de dosis de dabrafenib en función de los Acontec	imientos Adversos (AA) de cualquier grado
Grado (CTC-AA)*	Modificaciones de dosis recomendadas	
Grado 1 o Grado 2 (Tolerable)	Continuar el tratamiento y monitorizar a los pacientes en función de la clínica.	
Grado 2 (Intolerable) o Grado 3	Interrumpir el tratamiento hasta que la toxicida	id sea de grado 0-1 y reducir la dosis un nivel cuando se reinicie e

Suspender o interrumpir el tratamiento hasta que la toxicidad sea de grado 0-1 y reducir un nivel la dosis cuando se reinici el tratamiento. el tratamiento Grado 4 "Grado de intensidad de acontecimientos adversos clínicos según los criterios de Common Terminology Criteria for Adverse Events (CTC-AE) v4.0

L'adad de intensidad de acontecimiento avecso faincos según los criterios de Common Terminology Criteria for Advesa Fents (CIC-AE) et 0. Carado una reacción advesa individual se maneja de manera efectiva, se puede considerar realizar un re-socialo de dois, siguiendo las mismas puatas posigioras empleadas para las valenciones de doiss. La pueda parosógicar no dois versor da da Azenarde No serves a da Azenarde No Seves da da Azenarde No se de doisse manera el estabelicó la eficical y segunidad de dahafenilo en pacientes no cuassicos. No se dispone de datos. *Reientes de edid aanzada* No se requieren ajustes de la dois inicial en pacientes o pacientes para las se achadición be doisse na pacientes no inicializante ante de eve moderada. No evel sobre a construiencia negatar de la dois inicial en pacientes o paciento los en equieren ajustes de dois en pacientes no inicializante ante de los esposicios construitencia negatar de la dois inicial en pacientes o paciento los en equieren ajustes de dois esposicintes de moderada a gare ve no se ha podido determinar la posible necesidad de ajuste de doiss. Bantenilos no beatino los sobres dans o funcionas har para la deveción de la datar de la dois en advertes o precaución en pacientes con insolficencia hegática en donedada a gare ve pacientos o el lavís de esta dois esta construitos. En los estudios de datafenile en anameto de la esposicion. Bubafenilo es de la dois esta de la dois de la dois esta de

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