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| |  | | --- | | * *\* Vascular Surgeon, Centro Diagnostico Aquarius, Via Francesco Cilea, 280, Napoli 80127, Italy.* * *\*\* Freelance - Healtcare Recruiter/Qualitative Moderator and Data Analist. Free lance writer. Corso Italia 118, 80010 Villaricca (Napoli), Italy.* | | |  | | --- | |  | | | ***Abstract***   * *CHIVA was ideated in 1988 by C Franceschi in France and was aimed to provide a conservative therapy for chronic venous insufficiency. Though CHIVA is based on an interesting hemodynamics model, many people find it time consuming and difficult to understand. In 2009 F Passariello and N Morrison performed the first Office Based CHIVA (OB CHIVA) interventions. The aim of the present interview/review is to underline the issues posed by OB CHIVA. We interviewed well-known and recognized experts like BB Lee, N Morrison, T King, C Lattimer, M Patel, F Passariello and asked them to share their perspectives about OB CHIVA.* * *keywords: CHIVA; office based procedures; OB CHIVA; chronic venous insufficiency; LASER; RF* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Introduction***   * *OB CHIVA: A new key opportunity to simplify procedures and reduce requirements and costs in daily clinical work. A conceptual variation of CHIVA.* * *The cure Conservatrice et Hemodynamique de l'Insuffisance Veineuse en Ambulatoire (CHIVA or hemodynamic conservative treatment of venous insufficiency in the ambulatory) was ideated in 1988 by Claude Franceschi in France.[1] Since the beginning CHIVA rational was based on the anatomic and functional detailed study of the venous network, detecting the so called Closed Shunts (CS).[2]* * *Therapy was derived by a conservative strategy, aiming to spare the main incompetent trunks and to achieve pressure reduction and CS disconnections. CHIVA was the start of the in office venous hemodynamics, tailored on each patient, at low cost and out of closed imaging departments.* * *Though CHIVA is universally considered an interesting model of venous hemodynamics, many people find it time consuming, difficult to understand and to approach, owing to its steep learning curve. However, people who overcome this starting difficulty, reach then an appreciable level of comprehension not only of CHIVA, but also of venous hemodynamics.* * *In 2009 F Passariello and N Morrison performed the first Office Based CHIVA interventions, opening to a new environment possibility.[3] It is essential to declare clearly that CHIVA and OB CHIVA are nowadays different strategies (differences in technical details), though the sincere target of OB CHIVA is to erase in the next future any difference.[4-6] The aim of the present interview is to underline the issues posed by OB CHIVA.* * *Well-known and recognized experts were asked to answer a few meaningful questions. The hope is that their expert opinions will properly be reflected in this review.* * *Interview with Byung Boong Lee, Nick Morrison, Ted King, Chris Lattimer, Malay Patel and Fausto Passariello. They were so kind to share their perspectives about OB CHIVA.* | | |  |  |  | | --- | --- | --- | | *[[http://www.vasculab.it/obchiva/LeeBB.jpg](http://www.vasculab.it/obchiva/CV_LeeBB.pdf)  Byung Boong Lee (USA)](http://www.vasculab.it/obchiva/CV_LeeBB.pdf)* | [*[http://www.vasculab.it/obchiva/MorrisonN.jpg](http://www.vasculab.it/obchiva/CV_MorrisonN.pdf)  Nick Morrison (USA)*](http://www.vasculab.it/obchiva/CV_MorrisonN.pdf) | *http://www.vasculab.it/obchiva/KingT.jpg  Ted King (USA)* | | |  | | |  |  |  | | --- | --- | --- | | [*[http://www.vasculab.it/obchiva/LattimerC.jpg](http://www.vasculab.it/obchiva/CV_LattimerC.pdf)  Chris Lattimer (United Kingdom)*](http://www.vasculab.it/obchiva/CV_LattimerC.pdf) | [*[http://www.vasculab.it/obchiva/PatelM.jpg](http://www.vasculab.it/obchiva/CV_PatelM.pdf)  Malay Patel (India)*](http://www.vasculab.it/obchiva/CV_PatelM.pdf) | [*[http://www.vasculab.it/obchiva/PassarielloF.jpg](http://www.vasculab.it/obchiva/CV_PassarielloF.pdf)  Fausto Passariello (Italy)*](http://www.vasculab.it/obchiva/CV_PassarielloF.pdf) | | | ***Question #1. In the last years an increasing interest toward venous hemodynamics has grown in diagnosis and therapy. Which is the most important obstacle to the diffusion of venous hemodynamics between venous specialists ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  The terminology in the field of rheology (e.g. Equations) and name-based eponyms (e.g. CHIVA; Parana, Riobamba, etc) should be avoided whenever possible and limit its use unless there is absolutely no other way to express properly. Even CHIVA can be replaced with user-friendly "saphenous-sparing therapeutic strategy".* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  At least in the U.S., the fact that treatment according to CHIVA principles is reimbursed by insurers dramatically less than thermal ablation methods. Put simply, physicians get paid much less for doing less, no matter the outcome for the patient* * *http://www.vasculab.it/obchiva/KingT.jpg  In the United States, the biggest obstacle is acceptance of CHIVA and OB CHIVA by our prive and governmental insurers. CHIVA will never be done and won't catch on here without insurance acceptance first.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  Lack of sufficient training on the duplex ultrasound examination of superficial veins and the lack of interest in plethysmography. Everyone focuses on reflux as a target to destroy, rather than its contribution to recirculation and drainage.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Venous hemodynamics or venodynamics as I call it, differs from flow in arteries yet almost all apply knowledge of arterial hemodynamics to flow in the venous system. Venous flow is non-pulsatile and pressure differences may cause centrifugal flow but ultimately almost all flow is centripetal. This is difficult to comprehend without duplex ultrasound and easy words for each type of flow, as most symptoms of venous flow disorders are due to centrifugal flow. This lack of understanding and a common vocabulary is the main obstacle.* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  Venous hemodynamics is a mix of basic science and diagnostic techniques. Duplex is nowadays the most used diagnostic tool and has a long and steep learning curve. Paradoxically however the most important obstacle to the diffusion of venous hemodynamics is given by difficulties in the comprehension of several basic theoretical concepts, like the shunt classification and its link to the surgical strategy.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #2. Is the knowledge in venous hemodynamics a mandatory requirement in the treatment of venous diseases ? [7-8]***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  It will depend upon the treatment strategy like CHIVA but in general, NO, NOT necessarily! The clinicians would NOT need more than a basic principle to understand the hemodynamic aspect of venous disorder.* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  Mandatory? No. Exceedingly helpful to provide the best care for each patient? Absolutely. The more invasive and ablative the treatment, the more important knowledge of venous hemodynamic becomes.* * *http://www.vasculab.it/obchiva/KingT.jpg  Without question.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  It should be mandatory. Varicose veins surgery is still performed in the UK without a prior ultrasound examination of the venous network. Consequently, many great saphenous veins are stripped unnecessarily, small saphenous reflux is missed and reflux from other sources remains unidentified.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Yes* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  It depends on the chosen treatment. Ablative therapies do not need a detailed diagnosis nor a hemodynamic assessment. Stripping performed with or w/o Duplex showed to have no significant difference in results. [9] On the contrary, hemodynamic assessment is mandatory for conservative surgery.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #3. Will the simplified flowchart-guided hemodynamic approach of OB CHIVA contribute to the spread of the hemodynamic knowledge to a new audience ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  Absolutely!* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  It will certainly be helpful but economic considerations and the desire to produce better patient-care outcomes will ultimately determine the spread to a new audience.* * *http://www.vasculab.it/obchiva/KingT.jpg  Anything that simplifies hemodynamic knowledge and understanding will remove some of the mystique out CHIVA and would certainly be helpful.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  This will contribute to the spread in a CHIVA audience who specialize in venous hemodynamics by taking the principles into a minimally invasive era. The UK recognize but do not practice CHIVA and are funded on patient reported outcomes with clinical endpoints rather than haemodynamics.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Yes* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  This is a distinctive sign of the OB CHIVA. Starting from basic diagnostic results, a flow chart drives quickly towards a diagnostic choice and a conservative therapy, overcoming the undesired theoretical difficulties. The flow chart asks only: - If the terminal valve is incompetent - If the saphenous reflux is confined to the saphenous trunk or deviated instead towards an incompetent tributary - If, in the latter case, the saphenous reflux eventually disappears after compression of the incompetent tributary. [4] Later, when the operator will be acquainted with CHIVA strategy, the need of a greater knowledge maybe will arise and guide him/her to a deeper comprehension. The simplified approach will immediately recall many phlebologists, who generally feel themselves excluded by the starting difficulties of CHIVA.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #4. Endo-Venous Conservative procedures (EVC), in analogy to Endo-Venous Ablation (EVA), are the core of the OB CHIVA. Can OB CHIVA stimulate people to prefer EVC other than EVA procedures ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  Hopefully! It would NOT intimidate them so that it would attract their curiosity to step forward. But the mandate to learn unorthodoxy hemodynamic principle of CHIVA will remain a major obstacle.* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  Again only if the economic equations of each are essentially equivalent and as importantly, if it is proven that localized thermal ablation, for example, leads to equivalent results as traditional ligation.* * *http://www.vasculab.it/obchiva/KingT.jpg  Possibly but the issue is still reimbursement. Reimbursement based medicine is what is practiced and if insurers don't pay for something, it doesn't get done.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  I am hopefull that it will, but UK clinicians require evidence in the form of randomised controlled trials.* * *http://www.vasculab.it/obchiva/PatelM.jpg  People will prefer conservative procedures as long as they do not get confused and believe that conservative treatment modalities could leave behind residual disease or can cause early recurrence. This will happen initially but as knowledge spreads confusion and misbeliefs will decrease.* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  EVA procedures are standard and performed after a very simplified diagnosis, which essentially states that saphenous reflux requires saphenous ablation. OB CHIVA procedures are standard too and very similar to EVA and can be performed after a simplified and standard flow-chart guided Duplex approach. This new possibility could convince phlebologists to choose OB CHIVA instead than EVA procedures.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #5. Which are the possible side effects of OB CHIVA ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  Medico-legal liability involved to misunderstanding on the recurrence issue and the core principles.* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  Inappropriate treatment based upon incomplete understanding of the principles of OB CHIVA.* * *http://www.vasculab.it/obchiva/KingT.jpg  The side effects of OB CHIVA would potentially be the same as any other office based vein treatment procedure: discomfort, bruising, swelling, phlebitis, superficial and deep venous thrombosis, infection, thrombus extension and possibly PE. The risk of nerve injury would be minimal but probably not impossible.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  These are few. The office based setting should reduce the incidence of DVT. Saphenous conservation will reduce the risk of nerve injury and there should be no groin wound complications like infection or lymphatic disruption. Recurrence and the requirement for further treatments need investigation.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Though they are very hard to predict and could be very rare these could be skin changes (hyperpigmentation or infection) and maybe deep vein thrombosis. My current knowledge on OB CHIVA is limited but I would look out for these side effects. Under or over assessment of the underlying disease is a possibility. Chances of having recurrence or residual disease will always be there.* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  OB CHIVA side effects are the same than EVA, maybe less important because a shorter length is treated.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #6. Can venous insufficiency have a recurrence after this treatment ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  I don't understand clearly! Verify with more substances.* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  Absolutely! Any superficial venous treatment will have recurrences.* * *http://www.vasculab.it/obchiva/KingT.jpg  Given enough time, recurrence happens after any treatment.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  Chronic venous insufficiency will reoccur in all patients irrespective of the treatment because the forces of gravity are relentless. Reflux may be observed after OB CHIVA, but this often represents a drainage pathway which is an improvement of the original "insufficiency".* * *http://www.vasculab.it/obchiva/PatelM.jpg  Yes* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  Of course, as after any other treatment. A careful attention however should be paid to re-canalization, though no evidence is reported in literature about the optimal segment length of saphenous treatment.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #7. Which kind of follow-up is needed if a patient undergoes OB CHIVA ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  The follow up assessment should include the broad issue of the recurrence; the status of SFJ stump saved for the washing vessels, the arch recanalization rate, and the effect of the length of the treated saphenous vein, and indication/requirement of further management.* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  Probably limited follow up out to 1 year to be sure the treatment has been effective in eliminating the patient's complaints.* * *http://www.vasculab.it/obchiva/KingT.jpg  Ultrasound follow-up is important, especially at 3-7 days, I think, looking for clot. Another ultrasound at 6 weeks to assess the success of treatment would also be a good idea.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  Unless the treatment is deliberately staged, a follow up ultrasound should be recommended in 3 months to see if all the varicose tributaries have regressed and to audit the work using quality of life, venous severity and duplex outcomes.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Duplex ultrasound with color. The newer modality of multi-plane analysis will take over in future.* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  No special requirement, However, as the procedure is still under study, a not mandatory more frequent follow-up is planned. Aberdeen, VCSS and RAND-36 surveys can be used for QoL re-appraisal.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #8. Why is the Informed Consent important ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  That is the LAW!!!!!!!* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  Patients must be informed that this type of treatment is investigational and the practitioner lacks extensive experience with it.* * *http://www.vasculab.it/obchiva/KingT.jpg  To inform the patient about what to expect from treatment and to protect the physician.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  OB CHIVA is an emerging technique which is undergoing evaluation.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Leaving behind any prominent vein can be misunderstood as incomplete therapy and the patient has to be aware of this before treatment. Going over the whole flow pattern before treatment with the patient will be required. It would decrease medico-legal complications.* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  Because it is generally important and because OB CHIVA is a new method.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #9. Is there a difference between an Office Based and an Ambulatory Based procedure ? [5]***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  Not that I know of.* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  In the U.S. there is no difference since the majority of venous treatment already occurs as office-based procedures.* * *http://www.vasculab.it/obchiva/KingT.jpg  In the US, an office based procedure is performed in a doctor's office. On the other hand, an ambulatory based procedure could be performed in a doctor's office or some other outpatient setting. The only reason difference is where the procedure is performed.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  The intensity of a procedure should match the resourses of the environment. I believe these can be classified into levels. In very very general terms in the UK office based means outpatients and ambulatory means day case. However, general anaesthetic tooth extraction used to occur in the dentists office! They have different meanings for different people and are loose terms.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Depends on how reimbursements are made and how patients are willing to pay. This is also based on OB CHIVA being projected as a convenience and/or marketing tool.* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  The difference depends on the country. In some countries there is no difference, while in others a different organization is required, regarding presence/absence of anaesthetists, assisting personnel, instrumentation for monitoring /emergency and post-procedural organization.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #10. What about the costs of an OB CHIVA treatment ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  Depending upon the insurance company.* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  Costs in the U.S. would probably be less since the technology is already present and routinely used, and OB CHIVA would require less time than traditional ablation techniques once the learning curve (which should be brief for practitioners skilled in endovenous procedures) is overcome.* * *http://www.vasculab.it/obchiva/KingT.jpg  In the US, it would be assumed that OB CHIVA would be reimbursed by insurers at the same level that they reimburse other office based endovenous ablation procedures.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  It will cost less than CHIVA provided the environmental settings are less resourceful and the disposables are less.* * *http://www.vasculab.it/obchiva/PatelM.jpg  It appears that the treating doctor may be able to make more money for his own office because hospital costs will be eliminated. Final costs of OB CHIVA may approach treatment costs of other modalities.* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  The cost will be generally the same or maybe less, because the treated segment is shorter. Costs could also reduce according to the kind of procedure: less tumescence, less glue, less energy.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #11. Depending on local laws in each Country, will OB CHIVA benefit from the same reimbursement than EVA ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  Absolutely!* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  This would be likely so in the U.S.* * *http://www.vasculab.it/obchiva/KingT.jpg  Absolutely.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  In the UK reimbursement is the same for a unilateral procedure for varicose veins, irrespective of where or how it is performed. The costs obviously, are quite different.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Yes* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  I hope. The only (planned) variations are the length of the treated segment and its starting point, depending on the position of the washing and draining vessels. Procedure details then are the same and I think that treatment codes should also be the same. In the ICD9-CM [10] classification (mainly used in Europe) the applicable code could be 39.99 for "other operations on vessels". In USA instead the Current Procedural Terminology (CPT) code set of the American Medical Association (AMA) [11] provides different codes for the first and the subsequent veins treated: 36475 and 36476 accordingly for the radiofrequency, 36478 and 36479 for the LASER.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #12. Will CHIVA benefit from the success of OB CHIVA ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  Absolutely!* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  Certainly so! More widespread familiarity with the principles will be one of the results.* * *http://www.vasculab.it/obchiva/KingT.jpg  I don't see how CHIVA couldn't benefit from the success of OB CHIVA.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  Yes. Both techniques will benefit from each other and increase our understanding of venous insufficiency and the effects of treatment.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Yes* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  I hope so. And I hope too that OB CHIVA will become in the future only a simpler variant of CHIVA.* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***Question #13. Can OB CHIVA arise a new interest in research ?***   * *http://www.vasculab.it/obchiva/LeeBB.jpg  Absolutely!* * *http://www.vasculab.it/obchiva/MorrisonN.jpg  Again, certainly so. For example, it will take some time to see if laser ablation of a localized area actually works the same as a ligation, and for this reason alone it must be considered investigational.* * *http://www.vasculab.it/obchiva/KingT.jpg  I think it is entirely possible.* * *http://www.vasculab.it/obchiva/LattimerC.jpg  Most definitely.* * *http://www.vasculab.it/obchiva/PatelM.jpg  Yes* * *http://www.vasculab.it/obchiva/PassarielloF.jpg  Absolutely. Saphenous arch treatment deals with thrombosis after a planned injury of the venous wall. A great opportunity is then given to study the evolution/extension/re-canalization of thrombosis. EVA and OB CHIVA are a ready-made and ethical acceptable laboratory for thrombosis investigations in the human. [12]* | | |  | | --- | | *http://www.vasculab.it/logo/VLab2.jpg  VLAB - The Virtual Laboratory* | | | ***The Experts***   * *Thanks to the Experts for their contribute and the time they spent participating to the survey. [13]* * *Byung Boong Lee, Director of the Center for Vascular Malformation and Lymphedema, George Washington University. Washington, D.C., USA.* * *Nick Morrison, President-Elect, Union Internationale de Phlebologie, Morrison Vein Institute. Scottsdale, Arizona, USA.* * *Ted King, Vice President for Medical Affairs for Vein Clinics of America. Chicago, Illinois, USA.* * *Chris Lattimer, Vascular Surgeon, Josef Pflug Vascular Unit, Ealing Hospital. London, United Kingdom.* * *Malay Patel, Vascular Surgeon. Ahmedabad, India.* * *Fausto Passariello, Vascular Surgeon, Centro Diagnostico Aquarius. Napoli, Italia.* | | |  | | --- | |  | | | ***References***   1. *Franceschi C. Theorie et pratique de la Cure C.H.I.V.A. 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The OB CHIVA Survey. http://www.vasculab.it/obchiva\_survey.xml Accessed Jul 14th, 2014.* | | |  | | --- | |  | | | ***Disclosure***   * *The Authors declare no conflict of interest.* * *Fausto Passariello and Paola Gammuto* | | |  |  |  | | --- | --- | --- | | [*[http://www.vasculab.it/obchiva/PassarielloF.jpg](http://www.vasculab.it/obchiva/CV_PassarielloF.pdf)  Fausto Passariello*](http://www.vasculab.it/obchiva/CV_PassarielloF.pdf) | [*[http://www.vasculab.it/logo/Vlab2.jpg](http://www.vasculab.it/)  VLab - The Virtual Laboratory*](http://www.vasculab.it/) | [*[http://www.vasculab.it/obchiva/GammutoP.jpg](http://www.vasculab.it/obchiva/CV_GammutoP.pdf)  Paola Gammuto*](http://www.vasculab.it/obchiva/CV_GammutoP.pdf) | | | ***Acknowledgements***   * *We thank Mrs Iolanda Palma, for graphical and text editing.* * *Aquarius srl. Via Francesco Cilea, 280 - 80127 Napoli, Italy.* | | |  |  |  | | --- | --- | --- | | [*[http://www.vasculab.it/logo/aquarius_srl.jpg](http://www.vasculab.it/)  Centro Diagnostico Aquarius*](http://www.vasculab.it/) | *http://www.vasculab.it/obchiva/PalmaI.jpg  Iolanda Palma* | [*[http://www.vasculab.it/logo/Vlab2.jpg](http://www.vasculab.it/)  VLab - The Virtual Laboratory*](http://www.vasculab.it/) | | |  | | |  |  |  |  | | --- | --- | --- | --- | | *Thanks to our supporting Companies* | [*[http://www.vasculab.it/logo/medisin.jpg](http://www.medisin.it/)  MeDISIN*](http://www.medisin.it/) | [*[http://www.vasculab.it/logo/Medi.jpg](http://www.medi-italia.it/)  medi*](http://www.medi-italia.it/) | [*[http://www.vasculab.it/logo/AMNOL%20CHIMICA%20BIOLOGICA%20Srl.jpg](http://www.amnol.it/)  Amnol Chimica Biologica Srl*](http://www.amnol.it/) | | |  | | |  |  |  |  | | --- | --- | --- | --- | |  | [*[http://www.vasculab.it/logo/Gloria.jpg](http://www.gloriamed.it/)  Gloria*](http://www.gloriamed.it/) | [*[http://www.vasculab.it/logo/Mediolanum.jpg](http://www.mediolanum-farma.com/)  Mediolanum*](http://www.mediolanum-farma.com/) | [*[http://www.vasculab.it/logo/Gloriamed-pharma.jpg](http://www.gloria-med-pharma.com/)  Gloriamed-pharma*](http://www.gloria-med-pharma.com/) | | | ***Return to Vasculab***   * *This is the OB CHIVA Survey Web Page* | | |  | | --- | | [*[http://web.tiscali.it/vasculab/cpanel/logo/Vasculab.jpg](http://www.vasculab.it/)  Vasculab, the Vascular List !*](http://www.vasculab.it/) | | |

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