

Curriculum Vitae



Vincent Alvarez

Données personnelles

Date de naissance : 25 avril 1982
Nationalité : Suisse
Canton d'origine : Valais
Etat civil : Marié, 2 enfants
Coordonnées : vincent.alvarez@hopitalvs.ch

Positions actuelles

Médecin chef du Service de Neurologie, Hôpital du Valais DèS mai. 2021

Médecin agréé, Unité EEG/Épileptologie, CHUV DèS nov. 2014
Lecture des Electro-encéphalogrammes – Supervision des assistants en formation EEG – Développement et réalisation de projets de recherche

Diplômes et certifications

Professeur titulaire à la Faculté de Biologie et de Médecine Université de Lausanne Juillet 2021

Privat-Docent à la Faculté de Biologie et de Médecine Université de Lausanne Juillet 2017

Diplôme de formation post-graduée en électro-encéphalographie Société Suisse de Neurophysiologie Clinique Fév. 2015

Titre de Spécialiste en Neurologie Fédération des Médecins Helvétiques Oct. 2014

Certification of Standardized Critical Care EEG Terminology American Clinical Neurophysiology Society Sept. 2013

Doctorat en médecine "Etat de mal épileptique: traitements et facteurs pronostiques" Université de Lausanne Avril 2012

Diplôme fédéral de Médecin Université de Genève Sept. 2007

**Activités
professionnelles
précédentes**

Médecin adjoint, Service de Neurologie, Hôpital du Valais Responsable activité épilepsie/EEG et neuro-intensive Responsable de la formation post-graduée - Supervision des médecins assistants et des stagiaires	Janv. 2015 - Avril 2021
Visiting Scientist, Brigham and Women's Hospital, Boston, USA Développement et réalisation de projets de recherche clinique	Oct. 2014 – Dec 2017
Chef de Clinique, Service de Neurologie, Hôpital du Valais Hôpital du Valais, Sion	Aout 2014 – Déc. 2015
Post-doctoral Research Fellow in Clinical Epilepsy Brigham and Women's Hospital, Harvard Medical School, Boston, USA	Mai 2013 – Juillet 2014
Chef de Clinique Adjoint Service de Neurologie, CHUV, Lausanne	Juin 2012 – Avril 2013
Médecin assistant Service de Neurologie, CHUV, Lausanne	Avril 2009 – Mai 2012
Médecin assistant Service de médecine interne, Hôpital de la Tour, Meyrin, GE	Oct. 2007 – Mai 2009

Formations

Formation managériale des cadres Hopital du Valais (μMBA) Cours gestion d'équipe – leadership – développement de projet	2019-2020
Programme de Formation en éthique médicale TRREE Module 1-2-3 FMH – FPH	Fév. 2017
Collaborative Institutional Training Initiative (CITI program) Biomedical Research Investigator module	Juin 2013
Introduction, Intermediate and Advanced Biostatistics Center for Clinical Investigation, Brigham and Women's Hospital, Boston, USA	Avril 2014
Formation pour investigateur en recherche clinique (niveau 1) Swissmedic	Juillet 2010

Recherche

Domaine de Recherche :
<ul style="list-style-type: none">• État de mal épileptique• Monitoring EEG aux soins intensifs• Anoxie cérébrale

Publications Contributions originales:

- Hallak B, Bouayed S, Ghika JA, Tiego SA, **Alvarez V**. Management Strategy of Intracranial Complications of Sinusitis: Our Experience and Review of the Literature. *Allergy Rhinol.* 2022; 2513; 21526575221125031
- Beuchat I, Rossetti AO, Novy J, Schindler K, Rüegg S, **Alvarez V**. Continuous Versus Routine Standardized Electroencephalogram for Outcome Prediction in Critically Ill Adults: Analysis From a Randomized Trial. *Crit Care Med* 2022; 50: 329-33
- Urbano V, **Alvarez V**, Schindler K, Rüegg S, Ben-Hamouda N, Novy J, Rossetti AO. Continuous versus routine EEG in patients after cardiac arrest: Analysis of a randomized controlled trial (CERTA). *Resuscitation* 2022; 176: 68-73
- Urbano V, Novy J, **Alvarez V**, Schindler K, Rüegg K, Rossetti AO. EEG recording latency in critically ill patients: Impact on outcome. An analysis of a randomized controlled trial (CERTA). *Clin Neurophysiol.* 2022;139:23-27
- Jonas S, Müller M, Rossetti AO, Rüegg S, **Alvarez V**, Schindler K, Zubler F. Diagnostic and prognostic EEG analysis of critically ill patients: A deep learning study. *NeuroImage: Clinical.* 2022; 36: 103167
- Fleury L, Koch PJ, Wessel J (...), **Alvarez V** et al. Toward individualized medicine in stroke—The TiMeS project: Protocol of longitudinal, multi-modal, multi-domain study in stroke. *Front. Neurol.* 2022;13:939640
- Urbano V, Novy J, Schindler K, Rüegg S, **Alvarez V**, Zubler F, Oddo M, Lee JW, Rossetti AO. Continuous versus routine EEG in critically ill adults: reimbursement analysis of a randomised trial. *Swiss Med Wkly.* 2021;151: w20477.
- Vassallo P, Novy, J, Zubler F, Schindler K, **Alvarez V**, Ruegg S, Rossetti AO. EEG spindles integrity in critical care adults. Analysis of a randomized trial. *Acta Neurol Scand.* 2021; 144: 655– 662
- Eskioglou E, Iaquaniello C, **Alvarez V**, Rüegg S, Schindler K, Rossetti AO, Oddo M. Electroencephalography of mechanically ventilated patients at high risk of delirium. *Acta Neurol Scand.* 2021; 144: 296-302
- Rossetti AO, Schindler K, **Alvarez V**. Assessment of a Study of Continuous vs Repeat-Spot Electroencephalography in Patients with Critical Illness-Reply. *JAMA Neurol* 2021; 78: 369-370.
- Müller M, Rossetti AO, Zimmermann R, **Alvarez V**, Rüegg S, Haenggi M, Z'Graggen WJ, Schindler K, Zubler F. Standardized visual EEG features predict outcome in patients with acute consciousness impairment of various etiologies. *Crit Care* 2020;24:680.
- Guinchard M, Warpelin-Decrausaz L, Schindler K, Rüegg S, Oddo M, Novy J, **Alvarez V**, Rossetti AO. Informed consent in critically ill adults participating to a randomized trial. *Brain Behav* 2021;11: e01965.
- Vijjala S, **Alvarez V**. Epidemiology of status epilepticus in a non-urban area in Switzerland. *Acta Neurol Scand* 2021;143:413-420
- Rossetti AO, Schindler K, Sutter S, Rüegg S, Zubler F, Novy J, Oddo M, Warpelin-Decrausaz L, **Alvarez V**. Impact on mortality of continuous versus routine EEG in adults with altered consciousness and no recent seizure: a randomized controlled trial. *JAMA Neurol* 2020. 27; 77: 1-8

- Barbella G, Lee JW, **Alvarez V**, Novy J, Oddo M, Beers L, Rossetti AO. Prediction of regaining consciousness despite an early epileptiform EEG after cardiac arrest. *Neurology* 2020; 94:10
- Fatuzzo D, Isabelle Beuchat, **Alvarez V** et al. Does continuous EEG influence prognosis after cardiac arrest? *Resuscitation* 2018; 132: 29-32
- Rossetti AO, Schindler K, **Alvarez V**, Sutter R, Novy J, Oddo M, Warpelin-Decrausaz L, Ruegg S. Does Continuous Video-EEG in patient with altered consciousness improve patient outcome? Current evidence and randomized controlled trial design. *J Clin Neurophysiol* 2018; 35: 1
- Schneider J, Rossetti AO, **Alvarez V**. Ocular bobbing/dipping after cardiac arrest may be a post-anoxic myoclonus. *Resuscitation* 2018; 124: e7
- Perrenoud M, André P, **Alvarez V**, Stähli C, Decosterd L, Rossetti A.O, Novy J. Intravenous lacosamide in status epilepticus: Correlation between loading dose, serum levels, and clinical response. *Epilepsy Res* 2017; 135: 38-42
- **Alvarez V**, Rodriguez A, Laroche S, Hirsch LJ, Parres C, Voinescu P, Fernandez A, Petroff OA, Rampal N, Haider HA, Lee JW. The Use and Yield of Continuous EEG in Critically Ill Patients: a comparative study of three centers. *Clin Neurophysiol* 2017; DOI
- Schneider J, Turini P, **Alvarez V**. Movement artifacts mimicking a normal EEG background activity in a patient with anoxic brain injury. *Resuscitation* 2017; 110: e5-e6
- **Alvarez V**, Lee JW, Westover MB, Drislane FW, Novy J, Faouzi M, Marchi NA, Dworetzky BA, Rossetti AO. Therapeutic coma for status epilepticus: differing practices in a prospective multicenter study. *Neurology* 2016; 87; 1650-1659
- Tadeu AF, Tochin B, **Alvarez V**, Friolet R, Avery K, Scirica BM, O'Brian M, Henderson GV, Lee JW. Effect of stimulus type and temperature on EEG reactivity in cardiac arrest. *Clin Neurophysiol* 2016; 127: 3412-3417
- Gaspard N, Foreman B, **Alvarez V**, Canbera C, Probasco JC, Jongeling A, Meyers E, Espinera A, Haas K, Schmitt S, Gerard E, Goffon T, Kaplan P, Lee JW, Legros B, Szaflarsky J, Westover MB, LaRoche S, Hirsch L. New-onset refractory status epilepticus: etiology, clinical features and outcomes. *Neurology* 2015; 85 : 1-10
- **Alvarez V**, Lee JW, Drislane FW, Westover MB, Novy J, Dworetzky BA, Rossetti AO. Practice variability and efficacy of clonazepam, lorazepam and midazolam in status epilepticus: a multicenter comparison. *Epilepsia* 2015; 56: 1275-1285.
- **Alvarez V**, Reinsberger C, Scirica B, O'Brien MH, Avery KR, Henderson G, Lee JW. Continuous electrodermal activity as a potential novel neurophysiological biomarker of prognosis after cardiac arrest – A pilot study. *Resuscitation* 2015; 93: 128-135.
- **Alvarez V**, Drislane FW, Westover MB, Dworetzky BA, Lee JW. Characteristics and Role in Outcome Prediction of continuous EEG after Status Epilepticus: a prospective observational cohort. *Epilepsia* 2015; 56: 933-941.
- **Alvarez V**, Westover MB, Drislane FW, Dworetzky BA, Curley D, Lee JW, Rossetti AO. Evaluation of a clinical tool for early etiology identification in status epilepticus. *Epilepsia* 2014; 55: 2059-2068
- Sierra-Marcos A, **Alvarez V**, Faouzi M, Burnand B, Rossetti AO. Statins are associated with decreased mortality risk after status epilepticus. *Eur J Neurol* 2015; 22: 402-405

- **Alvarez V**, Sierra-Marcos A, Oddo M, Rossetti AO. Yield of intermittent versus continuous EEG in comatose survivors of cardiac arrest treated with hypothermia. *Crit Care* 2013; 17: R190
- Spatola M, **Alvarez V**, Rossetti AO. Benzodiazepine over treatment in status epilepticus is related to higher need of intubation and longer hospitalization. *Epilepsia* 2013; 54: e99-e102
- Rossetti AO, **Alvarez V**, Januel J-M, Burnand B. The impact of status epilepticus treatment quality on prognosis. *J Neurol* 2013; 260: 421-428
- **Alvarez V**, Oddo M and Rossetti AO. Stimulus Induced Rhythmic, Periodic or Ictal Discharges (SIRPIDs) in comatose survivors of cardiac arrest: characteristics and prognostic value. *Clin Neurophysiol* 2013; 124: 204-208
- **Alvarez V**, Rossetti AO, Papavasileiou V and Michel P. Acute seizures in acute ischemic stroke: does thrombolysis have a role to play? *J Neurol* 2013; 260: 55-61
- **Alvarez V**, Januel JM, Burnand B, and Rossetti AO. Role of comorbidities in outcome prediction after status epilepticus. *Epilepsia* 2012; 53: 89-92
- **Alvarez V**, Maeder-Ingvar M, Rossetti A. Watching television: a previously unrecognized powerful trigger of lambda waves. *J Clin Neurophysiol* 2011; 28: 400-403
- **Alvarez V**, Januel JM, Burnand B, and Rossetti AO. Second-line status epilepticus treatment: Comparison of phenytoin, valproate, and levetiracetam. *Epilepsia* 2011; 52: 1292-1296

Revue:

- **Alvarez V** et Rossetti AO. Update on the management of status epilepticus. *Curr Opin Neurol* 2021; 34:172-181.
- **Alvarez V** et Rossetti AO. Assessing the Risk/Benefit at Status Epilepticus Onset: The Prognostic Scores. *J Clin Neurophysiol* 2020; 37: 381-384.
- Traore A, Pot C, Bonvin C, Wicki B et **Alvarez V**. Neurologie et COVID-19. *Rev Med Suisse* 2020; 16: 947-949
- Outin H, Gueye p, **Alvarez V** et al. Prise en charge des états de mal épileptiques en préhospitalier, en structure d'urgence et en réanimation dans les 48 premières heures. *Recommandations formalisées d'experts SRLF-SFMU* 2018.
- **Alvarez V** & Rossetti AO. Therapeutic coma for the treatment of status epilepticus: Timing, choice of drug, and impact on prognosis. *Z Epilepto* 2018; 31: 262-266
- **Alvarez V**, Drislane FW. Is favorable outcome possible after prolonged refractory status epilepticus? *J Clin Neurophys* 2016; 33 : 32-41
- **Alvarez V**, Rossetti. Mono- or polytherapy for first-line treatment of status epilepticus? *J Clin Neurophys* 2016; 33 : 14-17.
- **Alvarez V**, Rossetti AO. Clinical use of EEG in the ICU: Technical Setting. *J Clin Neurophys* 2015; 32 : 481-485.
- **Alvarez V**, Rossetti AO. Prognosis after Cerebral Anoxia in Adults: What's the Role of EEG Specialist? *Epileptologie* 2012; 29: 218-224
- **Alvarez V** et al. 2012: News in neurology. *Rev Med Suisse* 2013; 9: 62-65.
- **Alvarez V**, Dussoix P, Gaspoz JM. Facial palsy: diagnosis and management by primary care physicians. *Rev Med Suisse* 2009; 5: 258-262

Editorial:

- **Alvarez V.** Acute seizures in the acute ischemic stroke setting: A step forward in their description. *Neurology* 2014; 82: 740-741

Analyse de cas :

- Fantaneanu T, **Alvarez V.**, Lee JW. Acute generalized suppression on continuous EEG heralds clinical and radiologic deterioration. *Neurology* 2015; 84: e119-e120
- **Alvarez V.**, Arnold P, Kuntzer T. Very late-onset Friedreich ataxia: later than life expectancy? *J Neurol* 2013; 260: 1408-1409
- **Alvarez V.**, Siclari F, Kuntzer T. Pallidal hyperintensities – a coincidental finding of clinical relevance in Miller Fisher syndrome. *Eur J Neurol* 2011; 18: e94-95
- **Alvarez V.**, Morier J, Hirt L. An episode mimicking a versive seizure in acute bilateral pontine stroke. *J Clin Neurosci* 2011; 18: 1141-1142.
- **Alvarez V.**, Maeder P, Rossetti AO. Postictal blood-brain barrier breakdown on contrast-enhanced MRI. *Epilepsy Behav* 2010; 17: 302-303.

Chapitres de livre:

- **Alvarez V.**, Rossetti AO. Chapter 2: Electroencephalography (EEG) and Evoked Potentials (EP). Technical Background. In: Rossetti AO & Laureys S, eds. *Clinical Neurophysiology in Disorders of Consciousness - Brain Function Monitoring in the ICU and Beyond*. Springer Verlag, Wien, 2015.
- **Alvarez V.**, Rossetti AO. Chapter 10: Clinical consequence of generalized convulsive status epilepticus. In: Drislane FW & Kaplan PW, eds. *Status epilepticus: a clinical perspective*, 2nd edition, Springer Science+Buisness. 2018

Abstracts :

Présentations orales :

- Mwizerwa L, **Alvarez V.**, LLor J, Russo M, Paccaud Y, Kayemba S, Poloni C. Behaviour change, depressed mood and catatonia: acute transient psychotic disorder or autoimmune encephalitis? Congrès de la Société Suisse de Pédiatrie – St-Gall – 1-6 juin 2017.
- **Alvarez V.**, Lee JW, Westover MB, Drislane FW, Novy J, Faouzi M, Marchi N, Dworetzki BA, Rossetti AO. Comparison of different practices of therapeutic coma in status epilepticus management. 2nd European Academy of Neurology meeting – Copenhagen – 28-31.05.2016
- **Alvarez V.**, Lee JW, Drislane FW, Westover MB, Jan Novy, Dworetzky BA, Rossetti AO. Is Clonazepam an effective alternative as a first line agent for status epilepticus management? 1st European Academy of Neurology meeting – Berlin – 20-23.06.2015
- Drislane FW, **Alvarez V.**, Lee JW, Dworetzky BA, Westover MB, Curley D, Rossetti AO. Early misdiagnosis of the etiology of status epilepticus. 1st European Academy of Neurology meeting – Berlin – 20-23.06.2015
- **Alvarez V.**, Januel JM, Burnand B, and Rossetti AO. Does adequate delivery of anti-epileptic drugs change the prognostic of status epilepticus? European Neurological Society Congress – ENS – Prague 9-12.06.2012.

- **Alvarez V**, Rossetti AO, Michel P. Does thrombolysis enhance seizures in acute ischemic stroke setting? European Neurological Society Congress – ENS – Prague 9-12.06.2012.
- **Alvarez V**, Januel JM, Burnand B, and Rossetti AO. Treatment of status epilepticus: a comparison of phenytoin, valproate or levetiracetam. European Neurological Societies Congress – ENS – Lisbon 28-31.05.2011.

Posters:

- Vijjala S & **Alvarez V**. Incidence and demographics of Status Epilepticus in the French speaking Valais Canton in Valais. 5th European Neurological Academy Meeting – Oslo – July 2018
- Edilberto A, Sunil Belur, **Alvarez V** et al. Automated quantitative EEG reactivity testing using actigraphy monitoring in cardiac arrest coma prognostication. Clin Neurophysiol 2018; 129: e173-e174
- **Alvarez V**, Reinsberger C, Scirica B, O'Brien MH, Avery K, Henderson G, Lee JW. Continuous electrodermal activity in comatose survivors after a cardiac arrest: a potential new biomarker for prognosis? 1st European Academy of Neurology meeting – Berlin – 20-23.06.2015
- **Alvarez V**, Drislane FW, Westover MB, Dworetzky BA, Lee JW. Yield of continuous EEG using the 2012 ACNS terminology in outcome prediction after status epilepticus. The 5th London-Innsbruck Colloquium on Status Epilepticus and Acute Seizures - 9-11 April 2015, Imperial College, London.
- Cabrera Kang C, Laroche S, Foreman B, **Alvarez V**, Probasco J, Jongeling A, et al. New-onset refractory status epilepticus: immune modulatory therapy and outcome. Annual meeting of the American Epilepsy Society (AES) – Seattle – 5-9 Dec 2014
- Gaspard N, Foreman B, **Alvarez V**, Cabrera Kang C, Probasco J, Jongeling A, et al. New-onset refractory status epilepticus: etiology and outcome in a retrospective series of 121 cases. Annual meeting of the American Epilepsy Society (AES) – Seattle – 5-9 Dec 2013
- Dworetzky B, **Alvarez V**, Qureshi N, Weisholtz D, Perez D, Fantaneanu T and Baslet G. Nonepileptic psychogenic status: longer and more dramatic events. Annual meeting of the American Epilepsy Society (AES) – Seattle – 5-9 Dec 2014
- **Alvarez V**, Lee JW, Westover MB, Rossetti AO. Early identification of status epilepticus etiology with a simple clinical tool. Annual meeting of American Academy of Neurology – Philadelphia – 26.04 to 03-05-2014.
- **Alvarez V**, Sierra-Marcos A, Oddo M, Rossetti AI. Yield of intermittent versus continuous EEG in comatose survivors of cardiac arrest treated with hypothermia. Annual meeting of the American Epilepsy Society (AES) – Washington – 6-10 Dec 2013.
- **Alvarez V**, Januel JM, Burnand B, and Rossetti AO. The comorbidities in the status epilepticus: a major role? Annual meeting of Swiss Neurology Society - St-Gallen - 03 to 05.11.2011.
- **Alvarez V**, Januel JM, Burnand B, and Rossetti AO. The comorbidities in the status epilepticus: a major role? Annual meeting of Swiss Neurology Society - St-Gallen nov 2011

Distinctions, prix et bourses

Young Investigator Award
Annual meeting of the American Epilepsy Society – Philadelphia
Décembre 2013

Bourse « Early postdoc.Mobility »
Fonds National Suisse pour la Recherche Scientifique
Mai 2013

Bourse et prêt pour formation en recherche clinique
Gottfried und Juila Bangerter Stiftung
Mai 2013

The « Epileptology Visionary Program Grant »
Sponsorship grant with mentor supervision,
European Epilepsy Congress, Londres
Septembre 2012

European Neurology Societies Travel Grant for Top Abstract
European Neurology Societies Meeting – Prague
Juin 2012

Conférences sur invitation (sélection)

Refractory Status Epilepticus – Induction or not?
11. Gemeinsame Jahrestagung der Deutschen und Österreichischen Gesellschaft für Epileptologie sowie der Schweizerischen Epilepsie-Liga
Basel
Mai 2019

Treatment and prognosis of Status Epilepticus
Swiss Federation of Clinical Neurosciences Society Summer School
Insel Spital Bern
Aout 2018

Seizures and Epileptiform discharges do not impact outcome and should not be aggressively treated - Controversies in Neurocritical Care
4th European Academy of Neurology 2018 - Libson
Juin 2018

Etiologies des états de mal – Le point en 2015
Journées françaises d'épileptologie, Montpellier
Novembre 2015

EEG transients: To treat or not to treat?
Neuroscience in the Intensive Care International Symposium, Paris
Juin 2015

Enseignement	Responsable du programme de formation post-graduée de neurologie Service de neurologie, Hôpital de Sion	Dès 2015
	Enseignement annuel à la « EEG Academy » (formation continue en vue obtention du certificat EEG) Société Suisse de Neurophysiologie Clinique	Dès 2017
	Enseignement dans le cadre du Diplôme inter Universitaire en Neuroréanimation Cours annuel sur le pronostic de l'état de mal épileptique Les Universités de Paris (resp : Prof. Sophie Démeret)	Dès 2016
	Enseignement dans le cadre du Diplôme Universitaire « électrophysiologie en réanimation » Cours annuel sur l'EEG continu en réanimation Université de Picardie Jules-Vernes (resp : Prof. William Szurhaj)	dès 2020
	Membre du comité d'organisation de la Journée Romande d'épileptologie Journée de formation annuelle sur l'épileptologie	Dès 2019
	Examineur aux ECOS fédéraux et de l'UNIL Université de Lausanne	Dès 2017
	Enseignements au lit du malade Service de neurologie, Hôpital de Sion	Dès 2015
	Responsable de l'organisation de la « Semaine du Cerveau » à Sion Cycle de conférences annuelles pour le grand public dans le cadre d'une initiative internationale d'information sur le cerveau, son fonctionnement et ses pathologies	Dès 2014

Membership

Membre de la Fédération des Médecins Helvétiques
Membre de la Société Médical du Valais
Membre de la Société Suisse de Neurologie
Membre de la Société Suisse de Neurophysiologie Clinique
Membre de l' American Epilepsy Society
Membre de l' American Academy of Neurology
Membre de la Ligue Suisse Contre l'Epilepsie
Membre d'Epi-Suisse

Fonctions techniques

Institutional member of the Neurocritical Care Scientific Panel – European Academy of Neurology - Swiss Neurology Society delegate

Relecteur pour divers journaux scientifiques :

- Intensive Care Medicine
- Neurology
- Journal of Neurology, Neurosurgery and Psychiatry
- Journal of Clinical Neurophysiology
- CNS Drugs
- Epilepsy Research
- Epilepsy and Behavior
- BMC Neurology
- Epileptic Disorders
- Clinical Neurology and Neurosurgery

Références

Sur demande