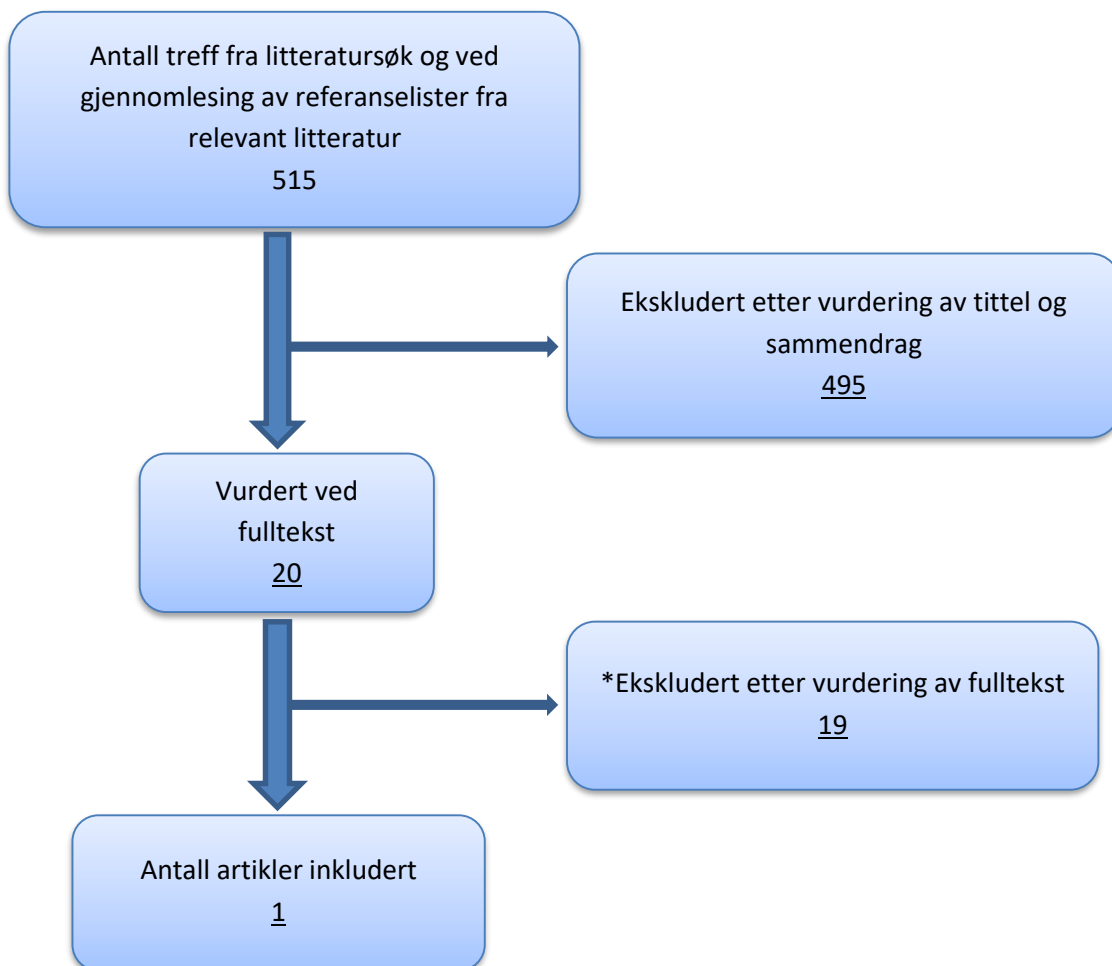


## Dokumentasjonsark: Nasjonal faglig retningslinje for hjerneslag

Spørsmål: Har pasienter som har gjennomgått hjerneblødning og som samtidig har atrieflimmer nytte av antikoagulasjonsbehandling?

<b>P</b>	Pasienter med hjerneblødning som samtidig har atrieflimmer	
<b>I</b>	Per oral antikoagulasjon	Dato for søk: 9.11.2015
<b>C</b>	Ingen behandling	Søk oppdatert dato:
<b>O</b>	Hjerneinfarkt, hjerneblødning, mortalitet, alvorlig blødninger	Bibliotek: Helsedirektoratet



\* Se tabell 2 for årsak til eksklusjon av studier etter vurdering av fulltekst

**Tabell 1a. Inkluderte studier.**

<b>Forfatter, år</b>	<b>Tittel</b>	<b>Siste litteratursøk</b>
Kuramatsu, Gerner, Schellinger, & et al., 2015	Anticoagulant reversal, blood pressure levels, and anticoagulant resumption in patients with anticoagulation-related intracerebral hemorrhage.	Ikke aktuelt (enkelstudie).

**Tabell 2. Ekskluderte referanser. Sammendraget/tittel funnet relevant, ekskludert etter gjennomlesing av artikkel.**

<b>Forfatter, år</b>	<b>Kommentar/begrunnelse for eksklusjon</b>
Al-Shahi Salman & Innes, 2015	Møter ikke PICO
Al-Shahi Salman, Stephen, & Drever, 2015	Møter ikke PICO
Arima et al., 2013	Protokoll
Caterina et al., 2014	Poster fra konferanse
Claassen, Kazemi, Zubkov, Wijdicks, & Rabinstein, 2008	Møter ikke PICO grunnet studiepopulasjon
Diener et al., 2012	Møter ikke PICO grunnet studiepopulasjon
Hawryluk et al., 2010	Møter ikke PICO grunnet studiepopulasjon
Lovelock, Knibb, & Rothwell, 2010	Møter ikke PICO
Nielsen et al., 2015	Møter ikke PICO grunnet studiepopulasjon
Nieuwenhuizen, Worp, Algra, Gelder, & Kappelle, 2014	Konferanseabstrakt
Ntaios, Papavasileiou, Diener, Makaritsis, & Michel, 2012	Møter ikke PICO
Pasquini et al., 2014	Møter ikke PICO
Pasquini et al., 2013	Møter ikke PICO
Rafiq et al., 2013	Konferanseabstrakt
Raskob et al., 2010	Møter ikke PICO
Romualdi, Micieli, Ageno, & Squizzato, 2009	Møter ikke PICO
Koen M. van Nieuwenhuizen et al., 2015	Duplikat

K. M. Van Nieuwenhuizen et al., 2015	Duplikat
Yung et al., 2012	Møter ikke PICO

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**Fullstendig referanseliste (inkluderte og ekskluderte referanser).**

- Al-Shahi Salman, R., & Innes, K. (2015). RE start or STop antithrombotics randomised trial (RESTART). *International Journal of Stroke*, *10*, 426. doi: <http://dx.doi.org/10.1111/ij.s.12479>
- Al-Shahi Salman, R., Stephen, J., & Drever, J. (2015). The RE start or stop antithrombotics randomised trial (RESTART): Baseline characteristics of the first 100 participants. *International Journal of Stroke*, *10*, 418. doi: <http://dx.doi.org/10.1111/ij.s.12479>
- Arima, H., Wang, J., Bladin, C., Heeley, E., Billot, L., Barzi, F., . . . Anderson, C. (2013). Rationale of the REstart or STop antithrombotics randomised trial in Asia Pacific (RESTART-AP). *Cerebrovascular Diseases*, *36*, 39-40. doi: <http://dx.doi.org/10.1159/000353795>
- Caterina, R., Andersson, U., Alexander, J. H., Cecilia Bahit, M., Commerford, P. J., Goto, S., . . . Wallentin, L. (2014). History of bleeding and outcomes with apixaban versus warfarin in patients with atrial fibrillation in the aristotle trial. *Circulation*, *130*. <http://onlinelibrary.wiley.com/o/cochrane/clcentral/articles/066/CN-01056066/frame.html>
- Claassen, D. O., Kazemi, N., Zubkov, A. Y., Wijdicks, E. F., & Rabinstein, A. A. (2008). Restarting anticoagulation therapy after warfarin-associated intracerebral hemorrhage. *Archives of Neurology*, *65*(10), 1313-1318. doi: 10.1001/archneur.65.10.1313
- Diener, H. C., Eikelboom, J., Connolly, S. J., Joyner, C. D., Hart, R. G., Lip, G. Y., . . . Investigators. (2012). Apixaban versus aspirin in patients with atrial fibrillation and previous stroke or transient ischaemic attack: a predefined subgroup analysis from AVERROES, a randomised trial. *Lancet Neurology*, *11*(3), 225-231. doi: [http://dx.doi.org/10.1016/S1474-4422\(12\)70017-0](http://dx.doi.org/10.1016/S1474-4422(12)70017-0)
- Hawryluk, G. W., Austin, J. W., Furlan, J. C., Lee, J. B., O'Kelly, C., & Fehlings, M. G. (2010). Management of anticoagulation following central nervous system hemorrhage in patients with high thromboembolic risk. *Journal of Thrombosis & Haemostasis*, *8*(7), 1500-1508. doi: 10.1111/j.1538-7836.2010.03882.x
- Kuramatsu, J. B., Gerner, S. T., Schellinger, P. D., & et al. (2015). ANticoagulant reversal, blood pressure levels, and anticoagulant resumption in patients with anticoagulation-related intracerebral hemorrhage. *JAMA*, *313*(8), 824-836. doi: 10.1001/jama.2015.0846
- Lovelock, C. E., Knibb, J. A., & Rothwell, P. M. (2010). Use of anti-thrombotic drugs in patients with atrial fibrillation and microbleeds: A decision-analysis. *International Journal of Stroke*, *5*, 8. doi: <http://dx.doi.org/10.1111/j.1747-4949.2010.00491.x>
- Nielsen, P. B., Larsen, T. B., Skjoth, F., Gorst-Rasmussen, A., Rasmussen, L. H., & Lip, G. Y. (2015). Restarting Anticoagulant Treatment After Intracranial Hemorrhage in Patients With Atrial Fibrillation and the Impact on Recurrent Stroke, Mortality, and Bleeding: A Nationwide Cohort Study. *Circulation*, *132*(6), 517-525. doi: 10.1161/circulationaha.115.015735
- Nieuwenhuizen, K. M., Worp, H. B., Algra, A., Gelder, I. C., & Kappelle, L. J. R. G. J. E. (2014). APACHE-AF: apixaban versus antiplatelet drugs or no antithrombotic treatment after anticoagulation-associated intracerebral haemorrhage in patients with atrial fibrillation. A randomized phase II clinical trial. *European Stroke Conference 2014*. <http://onlinelibrary.wiley.com/o/cochrane/clcentral/articles/053/CN-00991053/frame.html>

- Ntaios, G., Papavasileiou, V., Diener, H. C., Makaritsis, K., & Michel, P. (2012). Nonvitamin-K-antagonist oral anticoagulants in patients with atrial fibrillation and previous stroke or transient ischemic attack: a systematic review and meta-analysis of randomized controlled trials. *Stroke*, *43*(12), 3298-3304. doi: <http://dx.doi.org/10.1161/STROKEAHA.112.673558>
- Pasquini, M., Charidimou, A., van Asch, C. J., Baharoglu, M. I., Samarasekera, N., Werring, D. J., . . . Cordonnier, C. (2014). Variation in restarting antithrombotic drugs at hospital discharge after intracerebral hemorrhage. *Stroke*, *45*(9), 2643-2648. doi: 10.1161/strokeaha.114.006202
- Pasquini, M., Van Asch, C. J. J., Samarasekera, N., Cordonnier, C., Klijn, C. J. M., & Al-Shahi Salman, R. (2013). PROspective evaluation for the restart or stop antithrombotics randomised trial (PRE-RESTART). *Cerebrovascular Diseases*, *35*, 593. doi: <http://dx.doi.org/10.1159/000353129>
- Rafiq, S., Steinbruchel, D. A., Moeller, C. H., Lund, J., Thijs, J. J., Koeber, L., . . . Olsen, P. S. (2013). Earlyanticoagulation therapy after bioprosthetic aortic valve implantation: Comparing warfarin versus aspirin. *Interactive Cardiovascular and Thoracic Surgery*, *17*, S125-S126. doi: <http://dx.doi.org/10.1093/icvts/ivt372.232>
- Raskob, G. E., Gallus, A. S., Pineo, G. F., Chen, D., Ramirez, L. M., & Lassen, M. R. (2010). Apixaban versus enoxaparin for thromboprophylaxis after joint replacement surgery: Pooled analysis of major venous thromboembolism and bleeding in 8,464 patients from the ADVANCE 2 and 3 trials. *Blood*, *116*(21). <http://onlinelibrary.wiley.com/o/cochrane/clcentral/articles/014/CN-01033014/frame.html>
- Romualdi, E., Micieli, E., Ageno, W., & Squizzato, A. (2009). Oral anticoagulant therapy in patients with mechanical heart valve and intracranial haemorrhage. A systematic review. *Thrombosis & Haemostasis*, *101*(2), 290-297.
- van Nieuwenhuizen, K. M., van der Worp, H. B., Algra, A., Kappelle, L. J., Rinkel, G. J. E., van Gelder, I. C., . . . Klijn, C. J. M. (2015). Apixaban versus Antiplatelet drugs or no antithrombotic drugs after anticoagulation-associated intraCerebral HaEmorrhage in patients with Atrial Fibrillation (APACHE-AF): study protocol for a randomised controlled trial. *Trials*, *16*(1), 393-393 391p. doi: 10.1186/s13063-015-0898-4
- Van Nieuwenhuizen, K. M., Van Der Worp, H. B., Algra, A., Van Gelder, I. C., Kappelle, L. J., Rinkel, G. J. E., . . . Klijn, C. J. M. (2015). APACHE-AF: Apixaban versus antiplatelet drugs or no antithrombotic treatment after anticoagulation-associated intracerebral haemorrhage in patients with atrial fibrillation. A randomized phase II clinical trial. *International Journal of Stroke*, *10*, 433. doi: <http://dx.doi.org/10.1111/ijvs.12479>
- Yung, D., Kapral, M. K., Aslani, E., Fang, J., Lee, D. S., & Investigators of the Registry of the Canadian Stroke, N. (2012). Reinitiation of anticoagulation after warfarin-associated intracranial hemorrhage and mortality risk: the Best Practice for Reinitiating Anticoagulation Therapy After Intracranial Bleeding (BRAIN) study. *Canadian Journal of Cardiology*, *28*(1), 33-39. doi: <http://dx.doi.org/10.1016/j.cjca.2011.10.002>