The impact of acquisition dose on quantitative breast density estimation with digital mammography: results from ACRIN PA 4006

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: University of Pennsylvania
Authors: Chen, L., Ray, S., Keller, B., Pertuz, S., McDonald, E., Conant, E., Kontos, D.
Publication date: Sep 2016
Peer-reviewed: Yes

Publication information
Journal: Radiology
Volume: 280
Issue number: 3
ISSN (Print): 0033-8419

Ratings:
Scopus rating (2016): SJR 3.488 SNIP 2.797 CiteScore 5.67
Scopus rating (2015): SJR 3.512 SNIP 2.765 CiteScore 5.5
Scopus rating (2014): SJR 3.795 SNIP 3.046 CiteScore 5.5
Scopus rating (2013): SJR 3.21 SNIP 2.953 CiteScore 5.4
Scopus rating (2012): SJR 3.279 SNIP 2.855 CiteScore 5.27
Scopus rating (2011): SJR 3.129 SNIP 2.696 CiteScore 4.93
Scopus rating (2010): SJR 3.226 SNIP 2.667
Scopus rating (2009): SJR 3.121 SNIP 2.76
Scopus rating (2008): SJR 3.051 SNIP 2.664
Scopus rating (2007): SJR 3.392 SNIP 2.729
Scopus rating (2006): SJR 3.078 SNIP 2.537
Scopus rating (2005): SJR 2.712 SNIP 2.642
Scopus rating (2004): SJR 2.664 SNIP 2.595
Scopus rating (2003): SJR 2.522 SNIP 2.709
Scopus rating (2002): SJR 2.479 SNIP 2.56
Scopus rating (2001): SJR 2.507 SNIP 2.665
Scopus rating (2000): SJR 2.949 SNIP 2.586
Scopus rating (1999): SJR 2.83 SNIP 2.855

Original language: English
DOIs: 10.1148/radiol.2016151749
Research output: Scientific - peer-review › Article

Fully-automated quantitative estimation of volumetric breast density from digital breast tomosynthesis images

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Former organisation of the author
Authors: Pertuz, S., McDonald, E., Weinstein, S., Conant, E., Kontos, D.
Pages: 65-74
Publication date: Apr 2016
Peer-reviewed: Yes

Publication information
Journal: Radiology
Volume: 279
Issue number: 1
ISSN (Print): 0033-8419

Ratings:
Scopus rating (2016): SJR 3.488 SNIP 2.797 CiteScore 5.67
Scopus rating (2015): SJR 3.512 SNIP 2.765 CiteScore 5.5
Scopus rating (2014): SJR 3.795 SNIP 3.046 CiteScore 5.5
Levosimendan alone and in combination with valsartan prevents stroke in Dahl salt-sensitive rats

The effects of levosimendan on cerebrovascular lesions and mortality were investigated in models of primary and secondary stroke. We aimed to determine whether the effects of levosimendan are comparable to and/or cumulative with those of valsartan, and to investigate whether levosimendan-induced vasodilation has a role in its effects on stroke. In a primary stroke Dahl/Rapp rat model, mortality rates were 70% and 5% for vehicle and levosimendan, respectively. Both stroke incidence (85% vs. 10%, P<0.001) and stroke-associated behavioral deficits (7-point neuroscore: 4.59 vs. 5.96, P<0.001) were worse for vehicle compared to levosimendan. In a secondary stroke model in which levosimendan treatment was started after cerebrovascular incidences were already detected, mean survival times were 15 days with vehicle, 20 days with levosimendan (P=0.025, vs. vehicle), 22 days with valsartan (P=0.001, vs. vehicle), and 31 days with levosimendan plus valsartan (P<0.001, vs. vehicle). The respective survivals were 0%, 16%, 20% and 59%, and the respective incidences of severe lesions were 50%, 67%, 50% and 11%. In this rat model, levosimendan increased blood volume of the cerebral vessels, with significant effects in the microvessels of the cortex (∆R=3.5±0.15 vs. 2.7±0.17ml for vehicle; P=0.001) and hemisphere (∆R=3.2±0.23 vs. 2.6±0.14ml for vehicle; P=0.018). Overall, levosimendan significantly reduced stroke-induced mortality and morbidity, both alone and with valsartan, with apparent cumulative effects, an activity in which the vasodilatory effects of levosimendan have a role.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Signal Processing, Tampere University of Technology
Number of pages: 9
Pages: 132-40
Publication date: 5 Mar 2015
Peer-reviewed: Yes

Publication information
Journal: European Journal of Pharmacology
Volume: 750
ISSN (Print): 0014-2999
Scopus rating (2016): SJR 1.072 SNIP 0.931 CiteScore 2.98
Scopus rating (2015): SJR 1.116 SNIP 1.015 CiteScore 2.93
Scopus rating (2014): SJR 1.023 SNIP 1.038 CiteScore 2.76
Scopus rating (2013): SJR 1.066 SNIP 1.087 CiteScore 3
Scopus rating (2012): SJR 0.978 SNIP 1.058 CiteScore 2.98
Scopus rating (2011): SJR 1.044 SNIP 1.073 CiteScore 3.03
Scopus rating (2010): SJR 1.026 SNIP 0.982