



Pharmacy Department

Effects of the interactive web-based video “Mon Coeur, Mon BASIC” on drug adherence of patients with myocardial infarction : a randomized study

Dr. Christel Bruggmann
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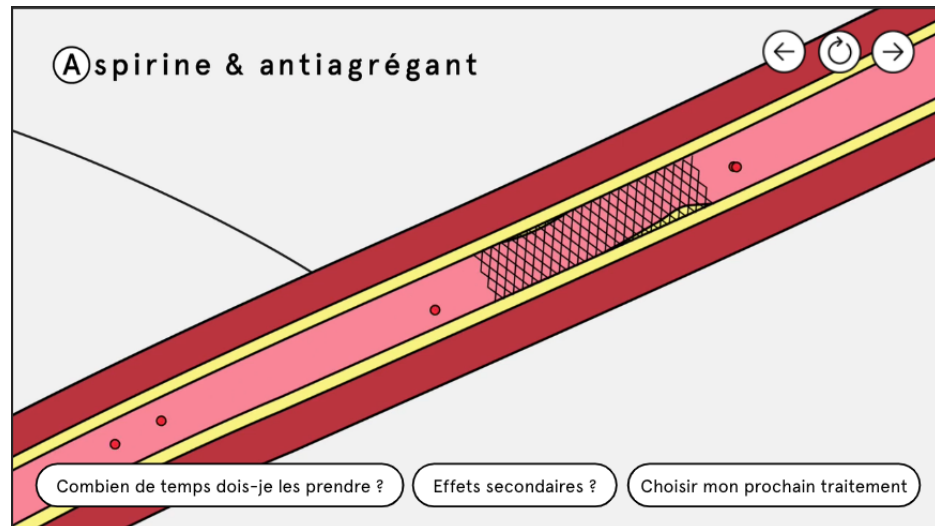
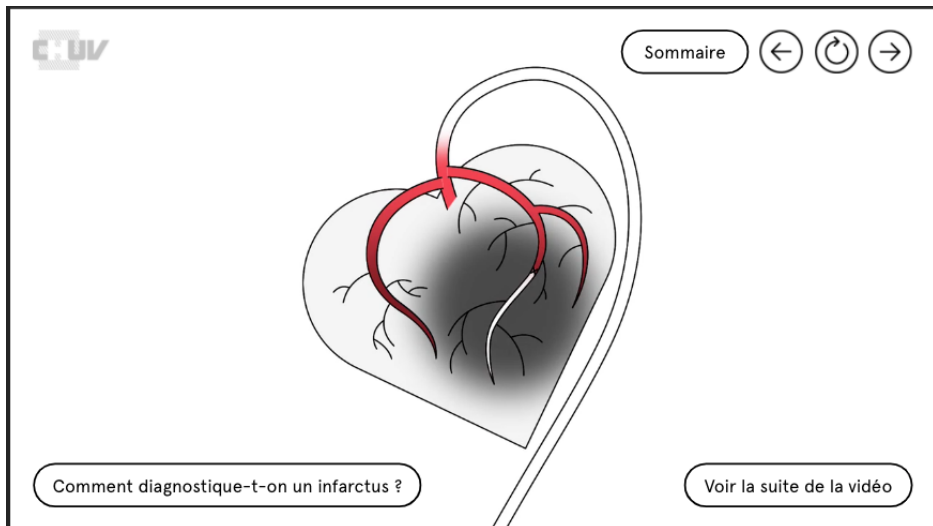
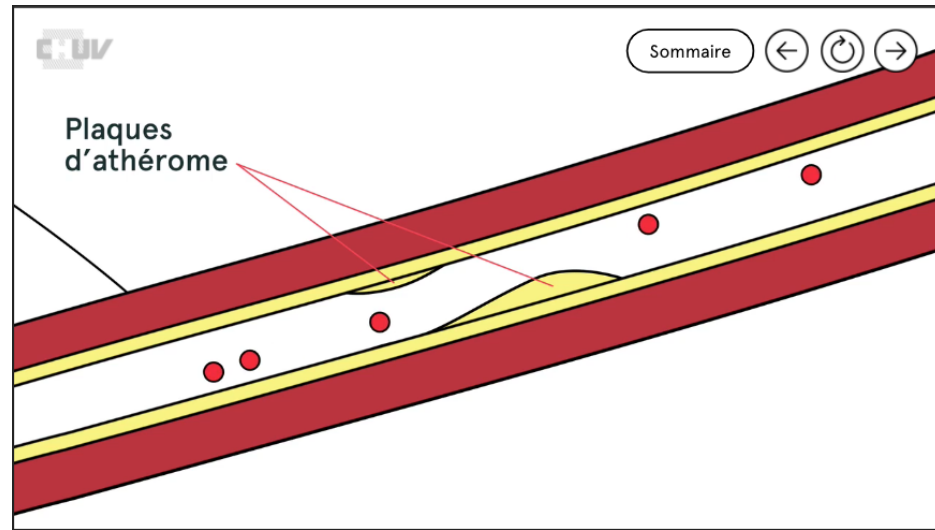
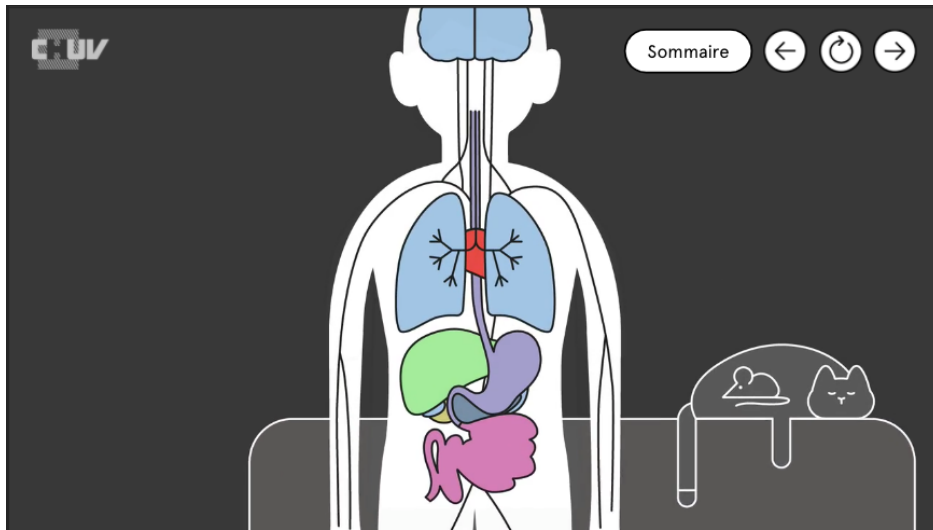
Drug adherence after acute coronary syndrome (ACS)

- Secondary prevention after ACS essential to reduce subsequent CV events ¹
- Lack of drug adherence is common worldwide after ACS → leads to increased morbi-mortality ^{2,3}
- Different interventions have shown an increase in drug adherence after ACS ^{4,5,6}
- eHealth strategies are helpful for patient information and education purpose



Development of a web-based video intended to inform patients about ACS and the drugs prescribed after ACS

«Mon cœur, Mon BASIC»



www.chuv.ch/video-basic

Objective

Does the web-based video improve drug adherence and knowledge about ACS and his drug treatment in patients with acute coronary syndrome?

Project design

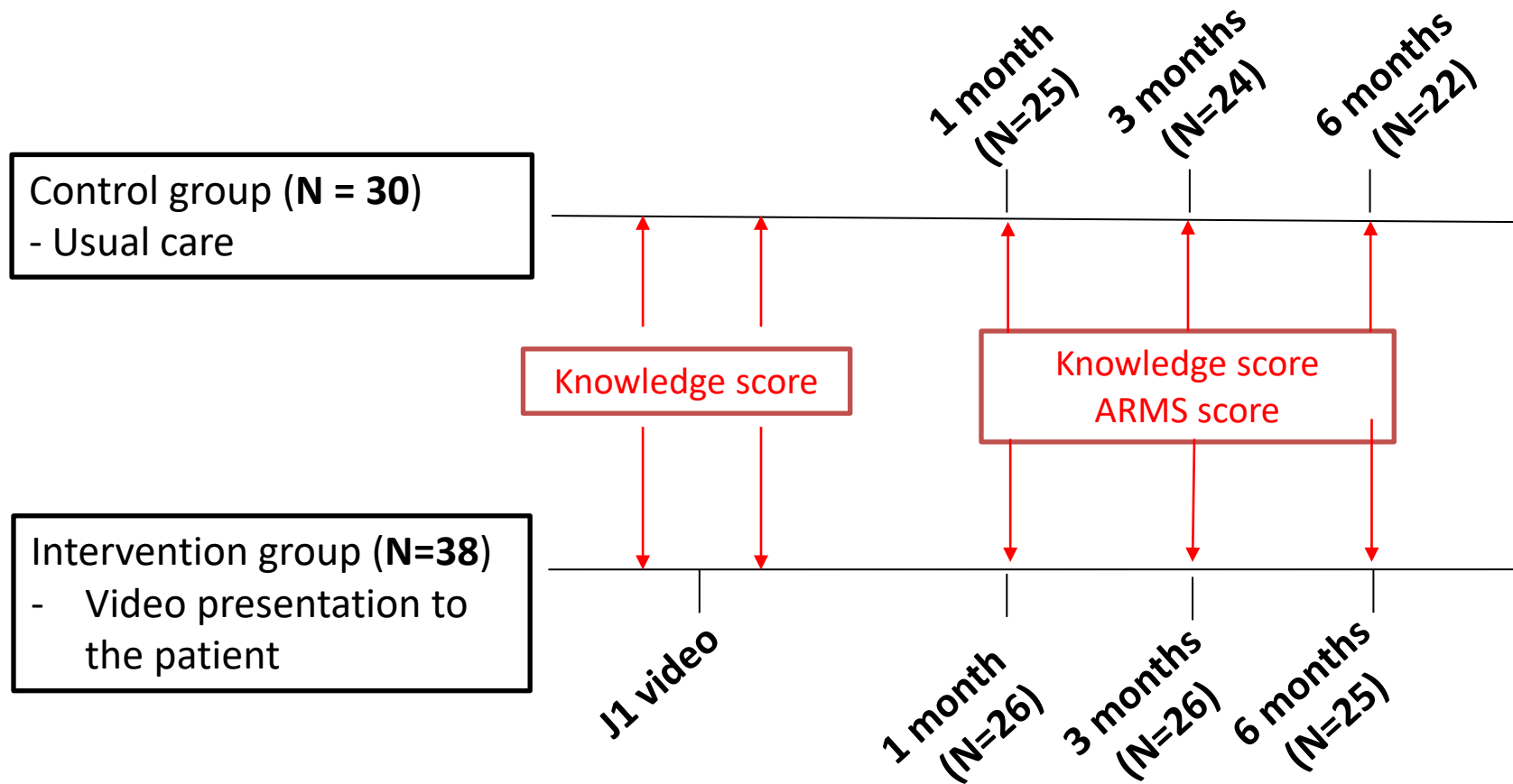
Design :

- Randomized controlled study (control group and intervention group)
- Inclusion of patients admitted in the University Hospital of Lausanne for ACS
- Follow-up over 6 months

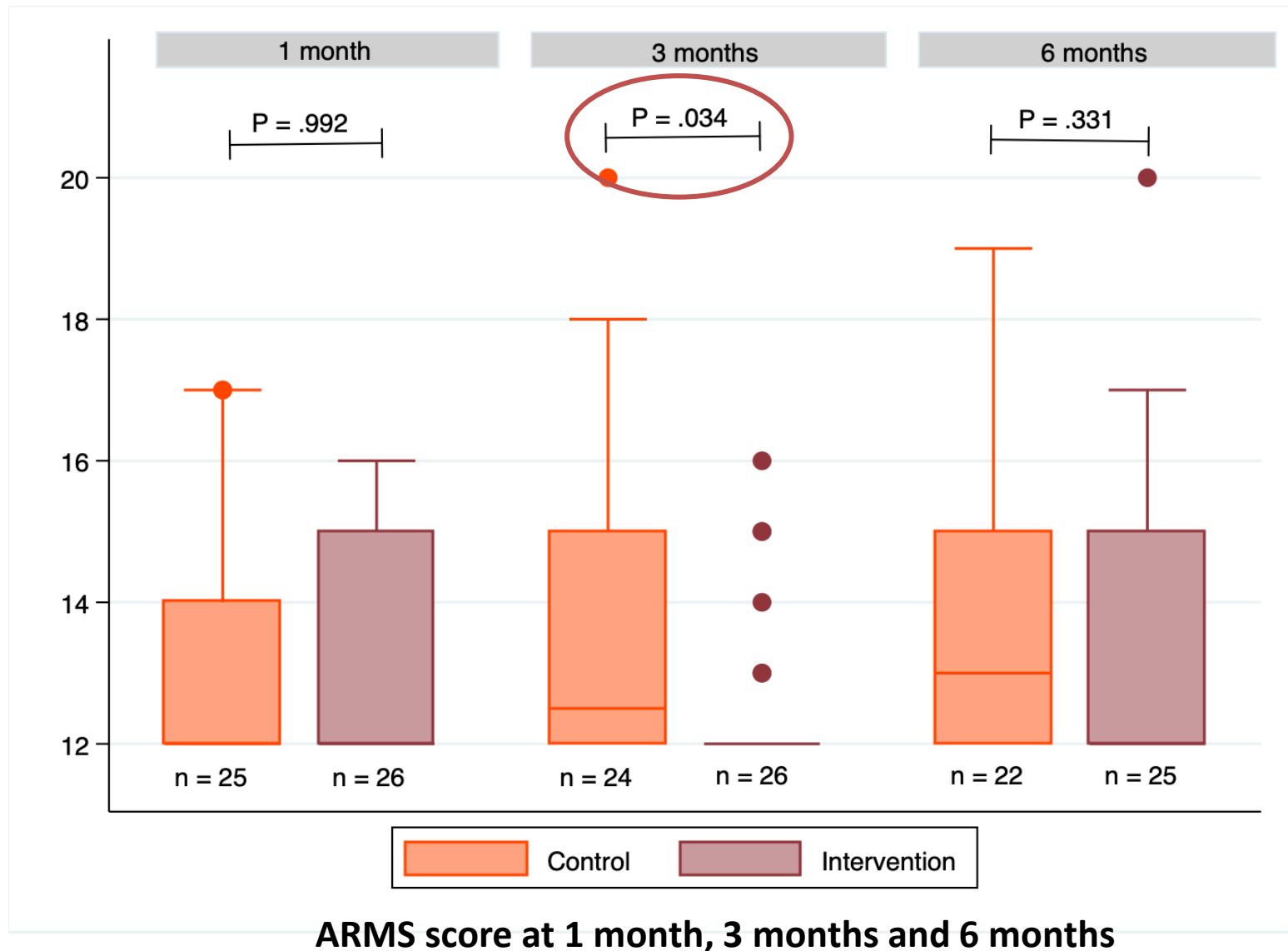
Primary outcomes:

- Difference in drug adherence, assessed with Adherence to Refill and Medication Scale (**ARMS score**) between groups, at 1 month, 3 months and 6 months after ACS
- Difference in **knowledge**, assessed with a multiple-choice questionnaire between the two groups at different time points

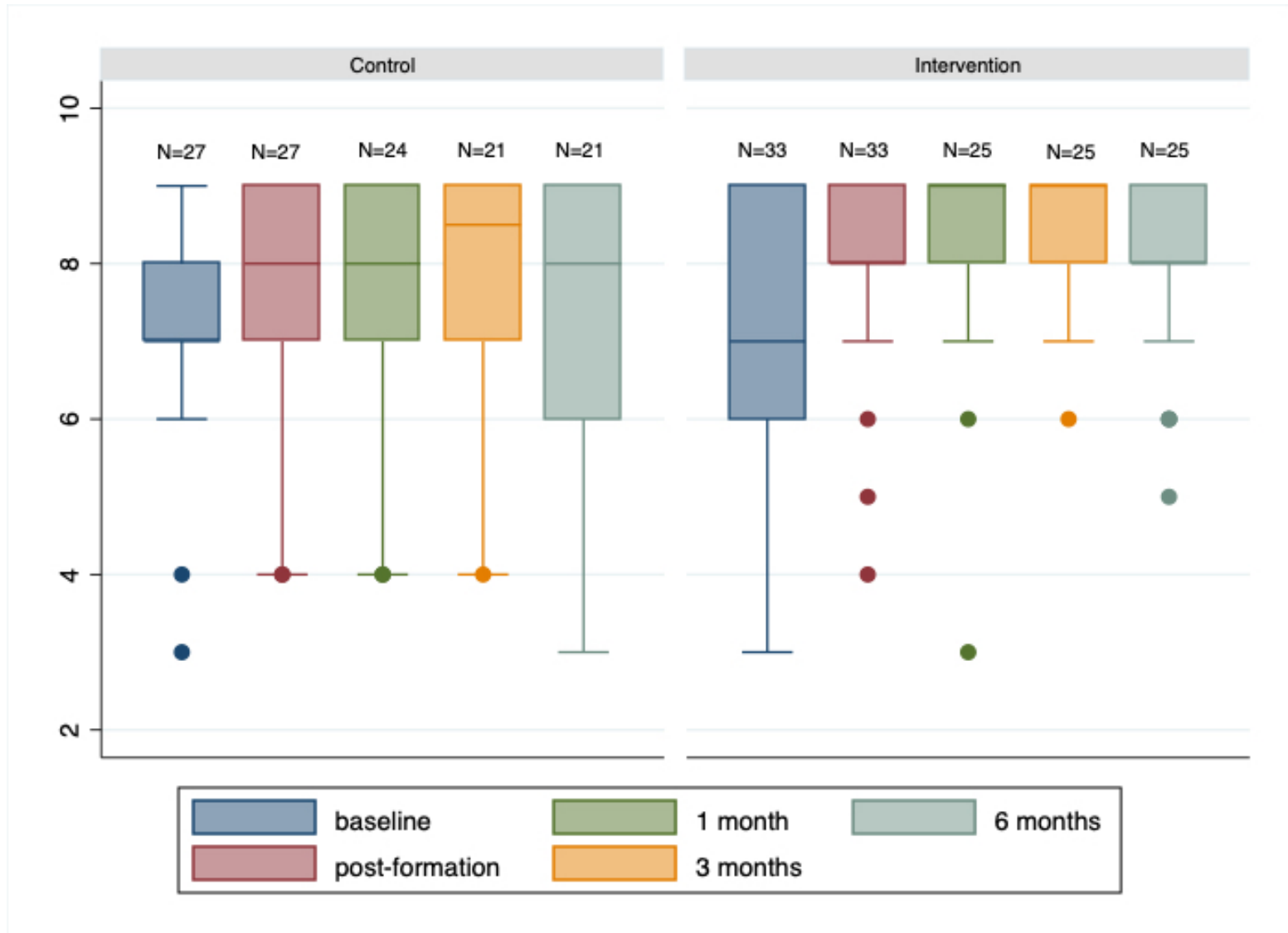
Method



Results I



Results II



Knowledge score at different time points

Results III

Difference in knowledge score from baseline (median (CI95%))

| Timepoint | Control | P-value | Intervention | P-value |
|---------------------------------|-----------------------|---------|---------------------|---------|
| Baseline score | 7.22 (6.64 to 7.81) | - | 7.03 (6.46 to 7.60) | - |
| Difference from baseline | | | | |
| Post-test (1 day) | 0.33 (– 0.16 to 0.82) | .144 | 1.00 (0.48 to 1.52) | .001 |
| 1 month | 0.48 (– 1.13 to 1.19) | .167 | 1.04 (0.35 to 1.73) | .031 |
| 3 months | 0.63 (– 0.02 to 1.27) | .064 | 1.40 (0.68 to 2.12) | .008 |
| 6 months | 0.32 (– 0.30 to 0.94) | .267 | 0.88 (0.25 to 1.51) | .144 |

Conclusion and perspectives

- Significant increased in **knowledge** in ACS patients
 - The effects seemed to decrease at 6 months
- Significant effect on **drug adherence** at 3 months was also shown
- **Encouraging results** despite low sample size

Perspectives

- Video optimization (interactivity ++, individualization, quizz)
- Implementation in all post-infarction patients
- Reminders after 6 months

Thank you for your attention

References

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4. Smith DH et al. Arch Intern Med (2008)
5. Budiman et al. Annals of pharmacotherapy (2016)
6. Calvert et al. American Heart Journal (2012)