**Supplemental digital content 1**

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| **« Burning » questions for research in early hemodynamic management of critically ill burns patients:** |
| What are the hemodynamic targets of fluid resuscitation in the first 48 hours? |
| What are the optimal monitoring strategies? |
| Is there an interest for a microcirculation targeted therapy? |
| What is the impact of current treatments on the microcirculation? (e.g. norepinephrine, hydroxocobalamin) |
| Which crystalloid solutions should be used for resuscitation? |
| What is the ideal timing of vasopressor administration? |
| Should Albumin be used to reduce administered fluid amount and improve outcome? |
| Is there a benefit of adjuvant therapies? (e.g. Vitamin C, corticoids) |
| What is the impact of resuscitation strategies on immune response and secondary infections? |