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Introduction:
As mission of SIAARTI Neuroanesthesia and NeuroICU group of study, we are mapping out the Brain Ultrasound training needs in our Centers. Although Brain Ultrasound is widely used to study the intracranial vessels and other issues, it is still not clear the homogeneity of the skills required in both Neuro and General ICU in Italy. The aim of this study is to explore the use of US-TCD and validate a collection of criteria which would prove useful in any future national wide survey.

Methods:
Starting from Sept.2017 the seven Center involved (Bologna, Catania, Pisa, Verona, Bergamo, Cesena, Roma) collected clinical and sonographic data, basing on a CRF of twenty criteria such as: kind of hospital and ICU, number of beds and neuro-patients/year, the physicians specialization trained to perform US-TCD, the kind of US doppler device used and the kind of training course followed. As a second step, data were analyzed by coordination team, as third step, during annual SIAARTI conference, these Centers had a deep discussion on these selected items, further modifying and adapting the content of the items.

Results:
The result is a ready list of 20 items, an available tool for all the participant Centers, that are going to start with an internal test survey for a final validation.

Conclusion:
There is more than one path to train a physician on Brain US in Italy and there are new possible applications, even outside of the Neuro sub-speciality. From the preliminary discussion, it is clear that in Italy we have an inhomogeneous frame of training and use.
This group of study believes that among the anesthesiologists/intensivists, it is possible to find a useful number of physicians interested in training on this topic. The main aim is the production of a validated criteria collection, available for eventually future national survey, useful to help map out the real national training needs in Italy on US Brain.