ensure adequate uterine relaxation for the maintenance of anesthesia, at least 2 MAC concentration of an inhaled anesthetic agents are recommended [2]. The use of high concentrations of volatile agents can often require the use of vasopressor agents in order to ensure proper uteroplacental circulation. Approximately 2 MAC deep anesthesia influences fetal acidosis by decreasing fetal blood pressure, heart rate, oxygen saturation and base excess; on the other hand nearly 1 MAC light anesthesia reduces fetal exposure. Therefore, fetal heart rate, oxygen saturation, pH, glucose and electrolyte levels with umbilical blood flow should be monitored [3]. Vascular access can be used for fetal blood sampling and drug therapy with fetal fluid.

Direct fetal electrocardiogram electrodes may be assumed reliable. Fetal electroencephalogram is used with myometrial electrical and mechanical activity monitoring that is a new technique. Near infrared spectroscopy may be used for fetal cerebral oxygen saturation during open fetal surgery.

References