



**Fig. 47.1.** **a** Round adipose cells with the surrounding connective tissue. **b** Scanning electron microscope image at 4-min of laser exposure. It can be seen that 80% of the fat is coming out from the adipose cell through the disrupted membrane; there are fat particles inside and outside the cells **c** Scanning electron microscopy findings at 6 min of laser exposure. The fat is almost completely (100%) liquefied outside the cell. Adipose tissue has externalized the fat from the cell with 6-min exposure. Fat cells and cell membrane appear intertwined and their distribution is irregular. **d** Transmission electron microscopy findings after 6 min of laser exposure,  $\times 60,000$ . There is a disrupted site of the cell membrane. **e** Pore visualization. The adipocyte cell has a diameter of 100,000 nm and the pore size is 40 nm