"... And they shall beat their swords into plowshares, and their spears into pruning hooks" (Isaiah ch. 2 vs. 4). The last 60 years show a fast progress in medical technology resulting from two trends: (i) Enormous investment in defense and space technology during and after the 2nd World War, and (ii) The transition of life sciences into an almost exact science based on physical and quantum chemistry. We are now able to specify, with engineering precision, medical needs and regulations and manufacturing, at affordable cost, revolutionary life saving and life improving devices. Our talk will describe and illustrate with examples the transfer of defense technologies into the medical devices field.