



## AN INNOVATIVE LOOK AT MEDICAL STORAGE

In redesigning the case for medical equipment storage in space the major issues with the current design became apparent. First, the important medical supplies can be hard to get to, as they are spread over a couple of different bags inside of the case with no good partitioning between them. Second, the supplies inside had a tendency to float all over once the case was opened. And third, the actual case was a poor design that does not optimally use the space it takes up.

The solution to these problems is a new type of case that is shaped like a hexagonal cylinder (based on origami). This allows each of the six sides to be opened independently, or the whole case can be opened like a flower for easy access. This shape also makes the usage of space more efficient, as multiple smaller cases can be easily packed together. These smaller cases also help in partitioning the separate types of medical devices needed.

For example, a procedure currently will call for X number of one medicine, Y number of another medicine, and two syringes. The astronaut then has to find where all of these packages are in the current case and make sure to choose the right medicines in a stressful environment. The hexagonal system would instead tell the astronaut to open Case-4 Side-2, Case-5 Side-4, and all of Case-7. These would all be clearly marked and would expedite the actions of the astronaut.

