hplus.

Drawing from a body of research that spans the last three years, hplus is a range of six monitoring devices designed to enable the self monitoring of nine major medical conditions. Designed to sit harmoniously within the home, the devices are produced from natural materials including slip cast ceramics and CNC milled ash.

Good design and beautiful objects should not be out of the reach of the general public, especially when they are an essential part of their everyday lives.

The project is designed to alleviate the pressure on general practitioners, by allowing patients to monitor elements of their condition that wouldn’t normally be possible with in-home devices. Underlying this aim, there is a core belief that functional devices should be intuitive and beautiful.
The devices within the hplus collection are accompanied by a mobile app that acts as the core user interface, handling data collection and test operations.

Inside the app users select the test they want to perform and are then guided through the process of carrying out a successful clinical test. When the GP prescribes a new device, users can scan the barcode on its packaging, automatically adding it into their app. In doing this, the process of learning a new testing procedure is simple and hassle-free.

After tests have been performed, users can view the results within the same application. Data is collated into simplified overviews that show how well a patient is progressing, with a more detailed analysis available when required. When a data set is at a dangerous level, it is automatically flagged and an alert is sent to both the patient and clinician.
Users can view information about their personal health in a range of ways from indepth analysis and personal notes for doctors, through to simplified graphical readouts.
hplus Uri personal home urine analyser
hplus San full spectrum home blood tester
hplus Spi home spirometer
hplus FeNO modular FeNO meter attachment
The devices that include a urine-analyser, finger-prick blood tester, and spirometer, are removed of all but the most essential of user interactions, ensuring that the user experience is streamlined and hassle free.
The packaging of the hplus devices reflects the ambition of the product range to be simple and streamlined.
Coloured fabric tabs reference the individual colour palette of each device used within the UI of the mobile application, helping to create a unified product experience and increase user understanding.
A custom folding adapter plug and tangle-free flat USB-C charging cable are included with each of the hplus devices. No instruction manual is needed as to set up the device, users scan the QR code on the back of the box within the hplus application to be guided through installation, while a single button on the base of each device allows the product to pair with the users app.
Each base station or base unit features a single button and LED indicator that are used in pairing the device to the users application.
By changing the way we interact with products and the materials they are made from, it is possible to change the associations we give to them, and in turn, make them more acceptable in society and our daily lives.
Imagery used to set the tone for the visual language of the final collection of devices.
Once the devices within the hplus collection were identified and understood, a series of material-based design typologies were created around the technical package of each product. These typologies fell into three sets, ‘clean’, ‘domestic’, and ‘playful’.
Collection of sketches and iterative CAD modelling highlighting the creative process.
Rapid prototyping and hand model making were used for the iterative development of forms and usage characteristics.