

[S.M.R.T. BOTTLE/AMCOR RIGID PLASTICS AND CONFRERIE CLINIQUE]

TITLE	Amcor Rigid Plastics and Confrerie Clinique launch the S.M.R.T. Bottle	
COMPANY / ORGANIZATION	 	
KEYWORDS	Medication, RFID, smart, NFC, tracking, monitoring	
INDUSTRY AREA(S) AFFECTED	Pharmaceuticals Medical professionals	
ISSUE ADDRESSED	Incorrect usage and storage (e.g. temperature) of medication may compromise its effectiveness and safety. Additionally, non-compliance of drug therapy – such as dosage or scheduling – may remain unknown from health practitioners and caregivers, preventing any corrective actions. Vulnerable groups such as seniors and children are especially susceptible to these errors.	
SOLUTION	<p>Amcor and Confrerie Clinique have collaborated to launch the S.M.R.T. (separate, monitor, release, and track) Bottle. The bottle is a pill-dispensing solution with a clock-calendar function that records the time, date, and number of doses taken from the container. The stored information can be read with devices such as dedicated NFC readers or NFC-enabled smartphones, allowing easy access for physicians and care givers.</p> <p>The S.M.R.T. Bottle also contains an electronic pill dispensing system, which monitor the temperature within the container and counts the number of pills entering or leaving the bottle. For improved safety, the dispensing system makes multiple pill removal difficult, and removal of the desiccant canister within the bottle is almost impossible.</p> <p>The two-piece assembly making up Amcor’s smart dispensing solution can be designed for any pill bottle and existing filling lines with no changes required to the sealing process. A polypropylene insert is injection-molded and custom-designed to match the shape of the tablet.</p>	
EXPECTED BENEFITS	Improved patient safety and drug compliance: The S.M.R.T. Bottle provides patients, physicians, and caregivers with a way to monitor drug use. The recorded information, including when the bottle was accessed, how many pills were removed, its temperature, etc., can provide valuable information as to whether a patient is complying with their drug therapy or if they are storing their medication correctly. The controlled amount of medication dispensed also helps patients take the correct dosage, while also helping to prevent accidental overdoses.	
CASE LINK	<p>AIPIA, <i>Smart Dispensing Solution for Medicines Aids Safety and Compliance</i> http://www.aipia.info/news-Smart-Dispensing-Solution-for-Medicines-Aids-Safety-and-Compliance-664.php</p> <p>Healthcare Packaging, <i>An Intelligent Bottle System Monitoring Dosing for Effective Drug Compliance</i> http://www.healthcarepackaging.com/package-type/containers/intelligent-bottle-system-monitoring-dosing-effective-drug-compliance</p>	

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