



Safety

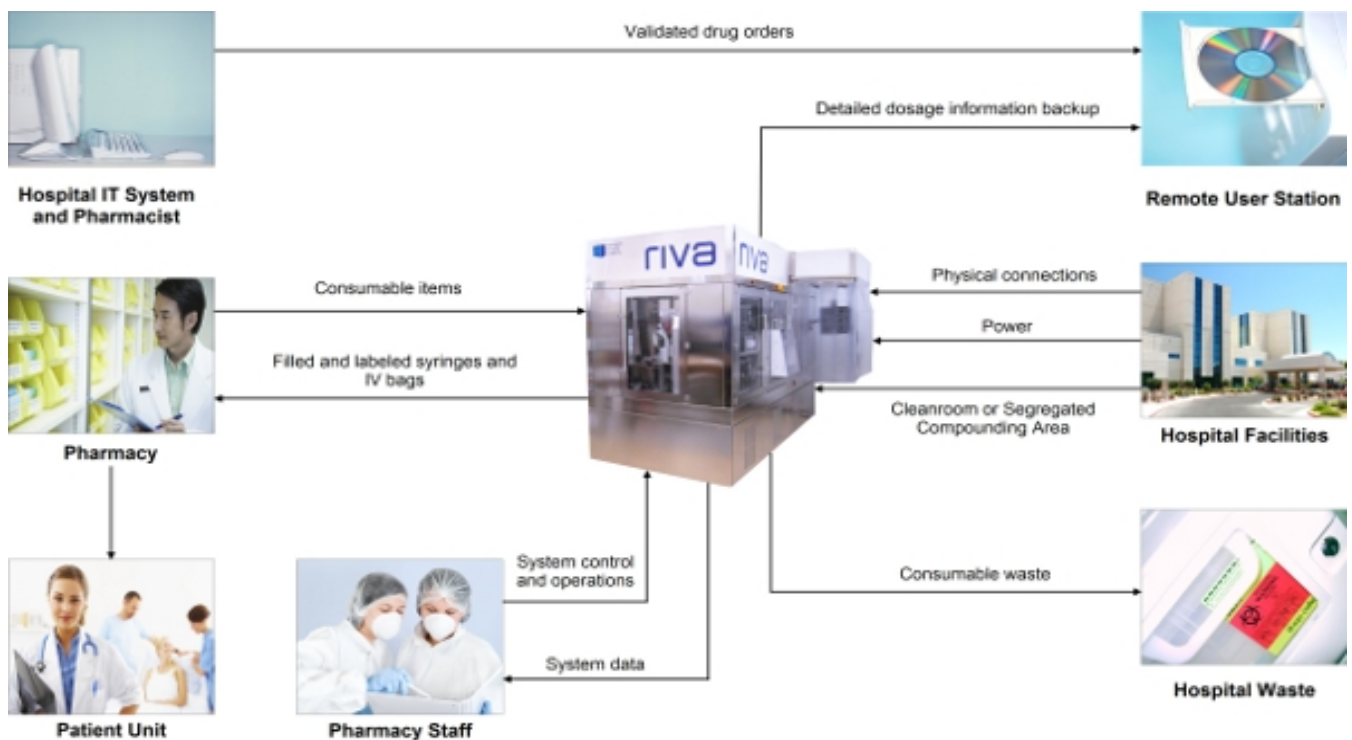
Accuracy

Efficiency

Reliability

**RIVA is an integrated system designed to automate the process of preparing IV admixtures**

- Electronic order entry
- Fully enclosed ISO Class 5 environment
- Fully automated preparation of syringe and bag doses...in any combination...in many sizes
- Up to 520 labeled, patient specific or batch doses, per 8 hr shift with one operator
- Complete electronic audit trail
- Designed to operate in the currently evolving regulatory environment



By using a combination of state-of-the-art technologies, RIVA eliminates human involvement in the actual admixture preparation process.

#### **Why is RIVA an improvement on currently available systems?**

RIVA represents the final piece of automation in the hospital pharmacy environment. RIVA uses:

- Standard, off-the-shelf, sterile syringes and IV bags manufactured by a variety of companies
- Syringes (1 to 60 ml), IV bags (25 to 1000 ml) and drug vials (1 ml to 100 ml) can be loaded in any combination at one time, offering the user almost unlimited dose preparation options
- New sterile syringes for each fluid transfer so cross-contamination is virtually eliminated
- Production flexibility - both patient-specific and batch orders can occur within the same production run
- Aseptic conditions and rigorous verification - ensuring the highest degree of patient safety
- ISO Class 5 environment - allows production of non-hazardous (e.g., antibiotics) and hazardous drugs (e.g., chemotherapy) with greatly improved operator safety
- Waste handling and system cleaning have been designed to meet high standards of hygiene and operator efficiency
- System and data security is maintained by tiered access
- Various levels of alerts/alarms signal if operator intervention is required

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