

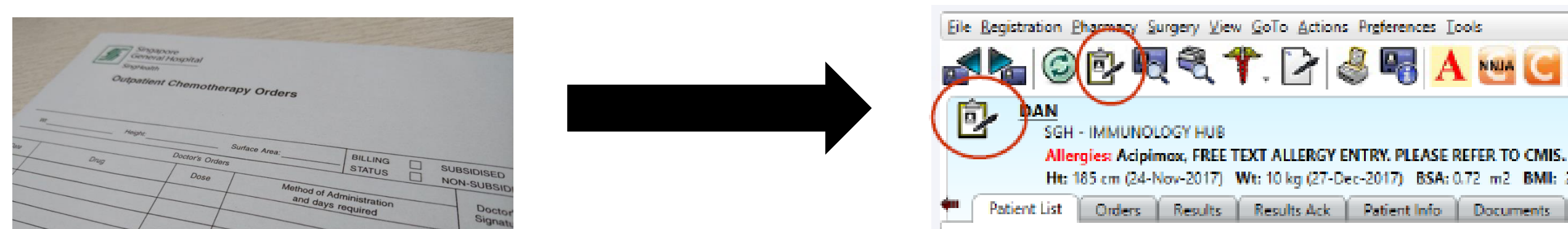


# Implementing Electronic Prescription for Biologic Treatment for Rheumatology Patients

## Introduction

Ordering of biologics to treat rheumatoid conditions through intravenous infusion using hardcopy prescription is **manual** and **error-prone**. The use of electronic prescription (E-prescription) for ordering biologics in an electronic system can bring many **benefits**:

### Reduces Human Errors & Enhance Efficiency

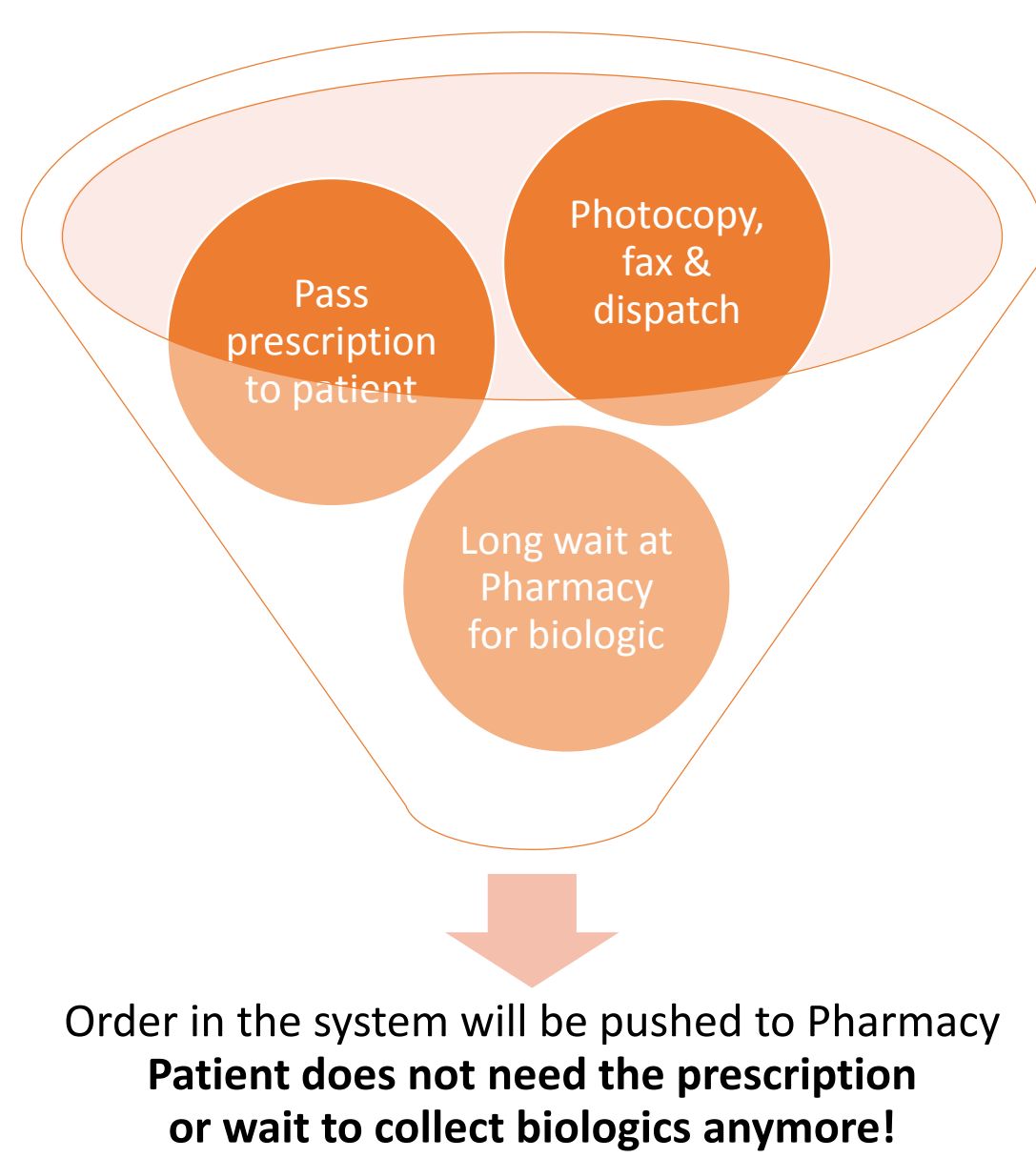


**PRE**  
Tedious & at times illegible handwriting

**POST**  
Order using just a few **CLICKS!**

### Streamline Process

- Ordering clinic staff had to photocopy, fax & dispatch hardcopy prescription to the clinic providing biologics infusion service
- Original hardcopy prescriptions were given to patients, which involved a risk of prescriptions being lost
- Patients collecting the biologics on the day of infusion at Pharmacy may experience long wait time which can delay biologics infusion treatment

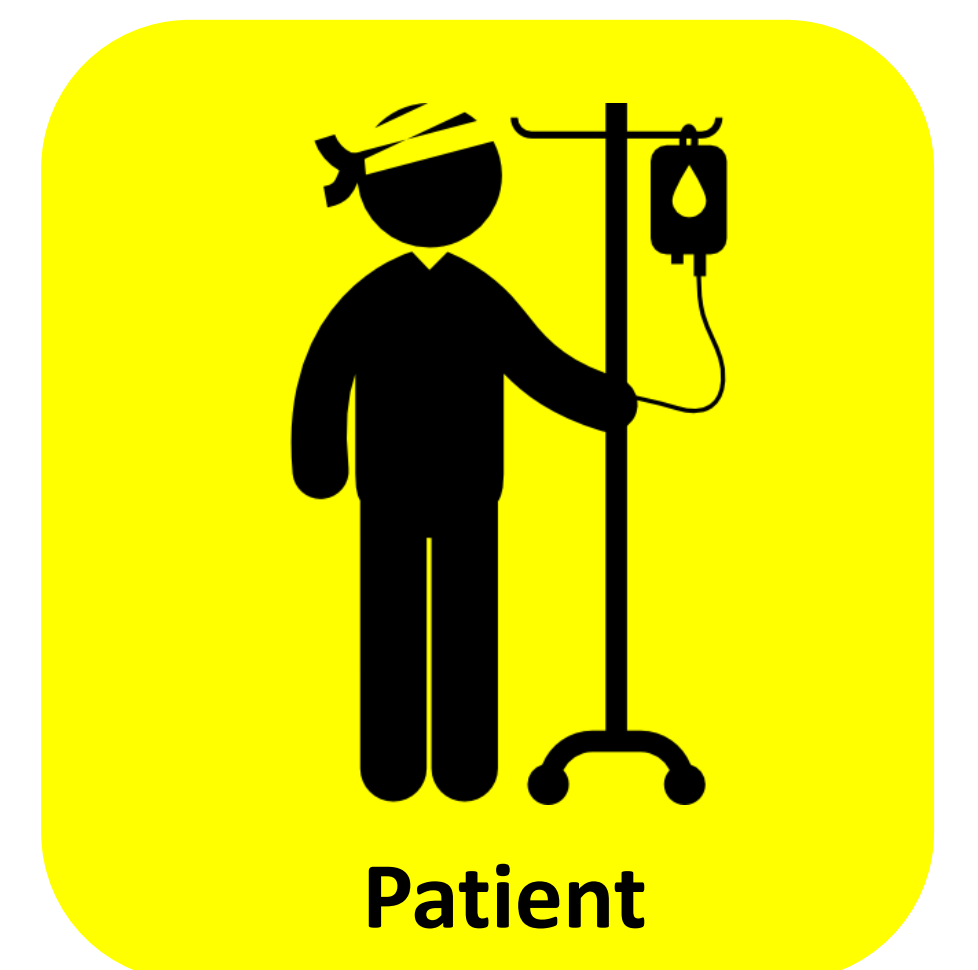


## Results & Conclusion



**5 minutes** saved preparing hardcopy prescription per patient that can be **spent on patient care** instead!

**Enhance safety** by reducing errors when interpreting handwriting and allowing doctors to check previous orders online to prevent over-prescribing!



**Patient**

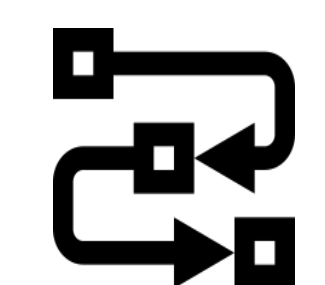
- ~~Losing of prescription~~
- ~~Waiting at Pharmacy~~
- Timely biologics infusion**



**No more photocopying** of papers



**15 minutes** of dispatch time for documents saved per patient



Streamlined process **shaving** at least **10 minutes** from each treatment



Automatic and **timely consolidation** of orders lead to **timely stock orders**

Overall, the new process saves at least 30 minutes per patient, resulting in more than **312 hours saved** per year (estimated 12 cases per week) that can be spent more meaningfully on direct patient care.

Electronic prescription is an **innovation** that helps to make processes **more efficient** and **optimises precious resources** – time, effort and logistics, which can be **redeployed to delivering quality patient care**

## Aim

To **innovate** the method of ordering of biologics to enhance **efficiency** and deliver **safe & timely care** to patients

## Methodology

### Engage IT & Doctors/Nurses

Create biologic order-sets based on standardized biologics infusion protocol from clinical department

### Educate doctors

Educate doctors on the method to order biologics by E-prescription

### Educate clinic staff & pharmacist

Educate on the new workflow with the implementation of E-prescription

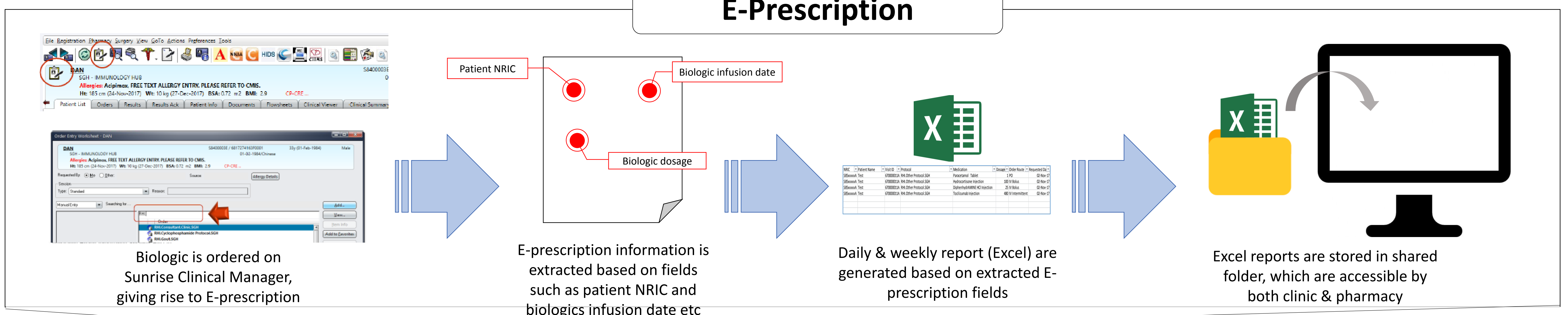
### Implement E-prescription

Starting mid-Jan 2018, doctors order biologics using the E-prescription

### Monitor for issues

Gather feedback from various stakeholders, ensure gaps are closed & processes are strengthened

## E-Prescription



## Consultation Appointment

## Infusion Day

