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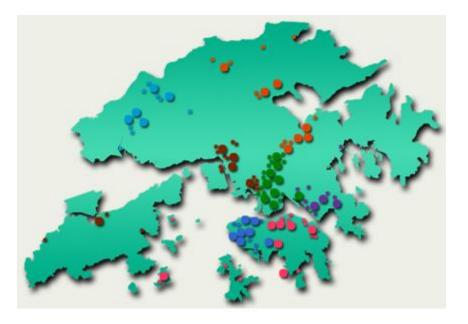
- Initiatives on Warfarin safety

IMSN 14 November 2022

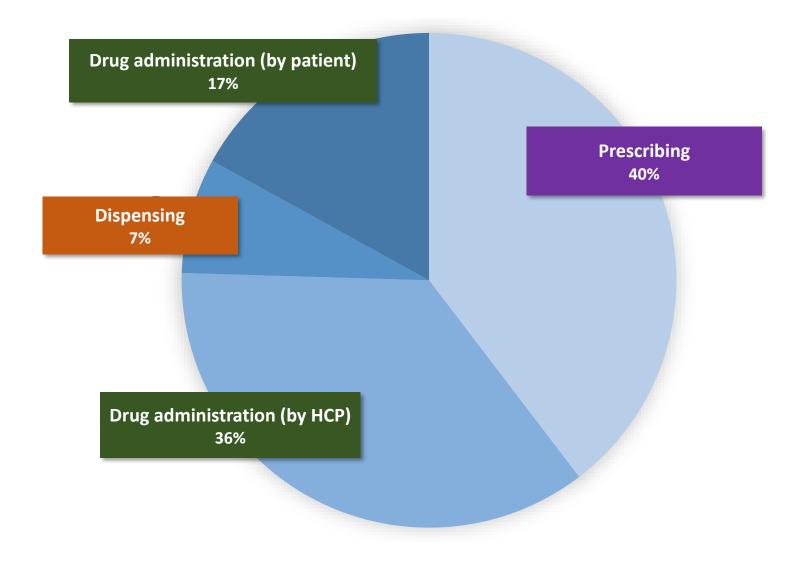


Hospital Authority (HA), HKSAR

- 43 public hospitals and institutions;
- 49 specialist out-patient clinics; and
- 73 general out-patient clinics



Warfarin related incidents (2019 - 2022)



Warfarin regimen types

Daily	87%
Odd-even days	11%
"Complicated"	2%

Examples of complicated regimen

SUN		
5 DOSES PER WEEK		
MON AND THU		
MON AND TUE		
MON, TUE, THU AND FRI		
MON, TUE, THU, FRI AND SAT		
MON, TUE, WED AND THU		
MON, TUE, WED, FRI AND SAT		
MON, TUE, WED, THU AND FRI		
MON, TUE, WED, THU, FRI AND SAT		
MON, WED AND FRI		
MON, WED AND SAT		
MON, WED, FRI AND SAT		
SUN AND SAT		
SUN AND THU		
SUN AND WED		
SUN, FRI AND SAT		
SUN, MON AND THU		
SUN, MON, FRI AND SAT		
SUN, MON, TUE, THU AND FRI		
SUN, MON, TUE, THU AND SAT		
SUN, MON, WED AND FRI		

SUN, MON, WED, FRI AND SAT SUN, MON, WED, THU AND FRI SUN, MON, WED, THU AND SAT SUN, THU, FRI AND SAT SUN, TUE AND FRI SUN, TUE AND THU SUN, TUE, THU AND FRI SUN, TUE, THU AND SAT SUN, TUE, WED, FRI AND SAT SUN, TUE, WED, THU, FRI AND SAT SUN, WED, THU, FRI AND SAT TUE AND FRI TUE AND SAT TUE AND THU TUE, THU AND SAT TUE, WED AND THU TUE, WED, FRI AND SAT TUE, WED, THU AND FRI WED AND FRI WED AND SAT MON, FRI

SUN, TUE, WED, THU AND SAT



Standardising the regimen?

Exploration of the concept of **"Average Daily Dose"**

Intended "Average dosage per day"	Standardised Dosage Pattern
0.25mg	0.5mg Alt day
0.5mg	0.5mg Daily
0.75mg	1mg Odd Day & 0.5mg Even Day
1mg	1mg Daily
1.25mg	1mg Odd Day & 1.5mg Even Day
1.5mg	1.5mg Daily
1.75mg	2mg Odd Day & 1.5mg Even Day
2mg	2mg Daily
2.25mg	2mg Odd Day & 2.5mg Even Day
2.5mg	2.5mg Daily
2.75mg	3mg Odd Day & 2.5mg Even Day
3mg	3mg Daily
3.25mg	3mg Odd Day & 3.5mg Even Day
3.5mg	3.5mg Daily
3.75mg	4mg Odd Day & 3.5mg Even Day
4mg	4mg Daily
4.25mg	4mg Odd Day & 4.5mg Even Day
4.5mg	4.5mg Daily
4.75mg	5mg Odd Day & 4.5mg Even Day
5mg	5mg Daily
5.25mg	5mg Odd Day & 5.5mg Even Day
5.5mg	5.5mg Daily
5.75mg	6mg Odd Day & 5.5mg Even Day
6mg	6mg Daily

The information-loaded warfarin journey



- 1. Dosage
- 2. Frequency
- INR result up / down, latest result available
- 4. Omit if > / <
- 5. Give if > / <
- 6. Optimal INR target
- Optimal dosing to target



- Instruction on warfarin therapy
- 2. More than 1 type of tablets
- 3. Change in regime
- 4. Blood-taking



- 1. Warfarin dosage
- 2. Latest INR result
- 3. Timing of INR result and administering
- 4. Omit if > / <
- 5. Give if > / <

Smart solutions

- capture clinical intention

 INR result for reference:

 21-May-2020:
 2.4

 20-May-2020
 2.2

 05-Oct-2019
 1.8



Corporate-wide Warfarin safety campaign

- To raise awareness of warfarin safety and gather bright ideas



Development of Pharmacist-managed Anticoagulation Clinics in HA

- Integrated physician-pharmacist care model
- In medical Specialist Out-patient Clinic
- Pharmacist consultation at appropriate intervals between physician appointments

