

The Junior-Adverse Drug Event Managers

A unique opportunity for medical students to learn basic pharmacovigilance whilst increasing the number of adverse drug reactions in a hospital setting

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Background

>95%

Underreporting of individual case safety reports (ICSR).



Most interventions to increase reporting have failed.



Screening and reporting could be educational for healthcare students and possibly increase ICSR.

Aim

Investigate the feasibility of a J-ADEMs team and evaluate the clinical and educational value of the intervention.

Methods



J-ADEMS team

✓ Two medical students (1st - 6th year)

J-ADEMS workflow

1. Screening and consultation

J-ADEMS team screens the medical wards for possible adverse drug events (ADEs) AND can be consulted by phone or email.



2. Adverse drug event interview

J-ADEMS take patients medication history and interview them regarding their adverse drug events.



3. Reporting the adverse drug event

J-ADEMS handle the ICSR to the pharmacovigilance center and answer all follow-up questions.



4. Teams reports back

J-ADEMS reports back to healthcare professional and updates patients medical records.



Contact: Michael Reumerman m.reumerman@amsterdamumc.nl No conflicts of interests to declare.



Junior-Adverse Drug Event Managers:

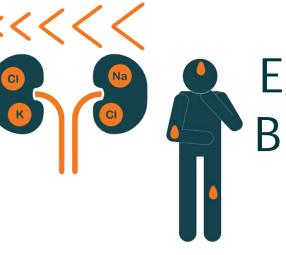
- Significant and relevant increase in reported ICSRs.
- High level of patient satisfaction.
- Opportunity to increase pharmacovigilance awareness in healthcare professionals.
- Significant increase in student knowledge regarding "causality assessments".

Results

Clinical results

48X ICSR In 9 months on 2 wards

350% increase Compared too ICSR in 2017 (VUmc)



Most frequent ADRs Electrolyte imbalance (n=14)



Patient evaluation

91% Professional

Patients found J-ADEMS professional





88% ICSR relevant Patients found reporting ADRs relevant

To increase drug safety patients main reason that ICSR are relevant N = 33

Healthcare professionals reasons NOT to report



61% Indifference

One case cannot contribute to medical knowledge

35% Lethargy Lack of interest or time

30% Ignorance

Only severe ADEs need to be reported

How students assess ADR causality

Previously recognized Look for previous conclusive reports & pharmacological mechanisms.

Time relation* Assess time and place association

Other causes* Assess likelihood of other cause





Students in student-run clinic NOT in J-ADEMs. Students in student-run clinic AND in J-ADEMs. \bigstar (p<0.05)