

Seattle & King County EMS

**EMERGENCY EPINEPHRINE
CHECK & INJECT
PROGRAM**

Two questions.....

- ◎ Best way to get a program started?
 - Approval from state
 - Approval from MPD
 - Approval from department
- ◎ Best way to manage a program?
 - Keep it simple.....
 - Train.....
 - QA/QI.....

Washington State

- 1999 “Kristine Kastner Act” (RCW 18.73.250)
 - Epinephrine
 - Availability
 - Administration

King County

◎ 2012 - Auto Injectors

- ~ 30/year
- Costs \$150 - \$400/pair
- \$100,000/year in King County

◎ 2013 – Guidelines changed

-  ~ 40/year

2013 - Check & Inject Concept

1. Practical and inexpensive kit
2. Targeted training
3. Quality Assurance/Improvement

The “Kit”

⦿ Check & Inject Kit

- Practical
- Inexpensive
- Smart



The Check and Inject Kit



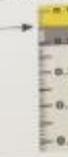
The Check and Inject Kit



The Check and Inject Kit

CHECK & INJECT
EMT Epinephrine Injection Process

1 → 2 → 3 → 4 → 5

1	2	3	4	5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MEETS CRITERIA	VERIFY DRUG	VERIFY DOSAGE	PREP & INJECT	MONITOR
VERIFY NEED	CONFIRM MEDS	DRAW UP DOSE	PREP PATIENT	MONITOR & DOCUMENT
TRIGGER <ul style="list-style-type: none"> • food allergy • insect sting • drug allergy SYMPTOMS <ul style="list-style-type: none"> • respiratory distress <ul style="list-style-type: none"> - oral swelling - hypotension - diffuse - progressive 	<ul style="list-style-type: none"> • 1:1000 Epinephrine • expiration date • contents: <ul style="list-style-type: none"> - clear 	<p>Adult = 0.3 cc</p> <div style="text-align: center;">  </div> <p>Peds < 66 lbs = 0.15 cc</p> <div style="text-align: center;">  </div>	<ul style="list-style-type: none"> • Clean injection site <ul style="list-style-type: none"> - lateral thigh - alcohol wipe • Insert needle <ul style="list-style-type: none"> - 90 degrees - lack of blood return • Push plunger <ul style="list-style-type: none"> - Remove syringe - Activate safety shield - Massage site - 10 sec. 	<ul style="list-style-type: none"> • Reassure patient • Monitor for: <ul style="list-style-type: none"> - response - side effects • Provide oxygen for respiratory distress • Monitor every 5 min. • Update medicals card <ul style="list-style-type: none"> - patient status - response to injection • Document MIRT <ul style="list-style-type: none"> - date - time - location - patient response
Date _____	Inc # _____	EMT 1 _____	EMT 2 _____	
<small>After use, Contact 206.296.4693, leave name, agency and call back number. Questions? Contact King County EMS: 206.263.4600</small>				

RAND-AID

The Training

- ⦿ Keep is simple
- ⦿ 6 rights of drug administration
 - Person
 - **Drug***
 - Dose
 - Route
 - Time
 - Documentation
- ⦿ *Epinephrine – It really is safe!
- ⦿ Anaphylaxis

The Training

- ⦿ December 2013 – train the trainer
 - 400 Instructors -15 days – CBT Workshops
- ⦿ January 2014 – on duty training
 - 4,000 EMT's
- ⦿ June 2014 – finished training
- ⦿ April 1, 2014 – 1st kit used

Quality Assurance Program

- ⦿ Must have each kit returned & reviewed
 - Contents of the epinephrine vial
 - MIRF
 - Check & Inject form
 - QA form

Results

- ◎ April 2015
 - > 120 kits used
 - ~ 10+/month
- ◎ 98% clinical accuracy
- ◎ 1 needle stick (training)
- ◎ Today
 - > 200 kits used
- ◎ Improved clinical care
- ◎ Savings > \$90,000

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BLS Training

Seattle & King County Public Health &

Emergency Medical Services

King County Medic One

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