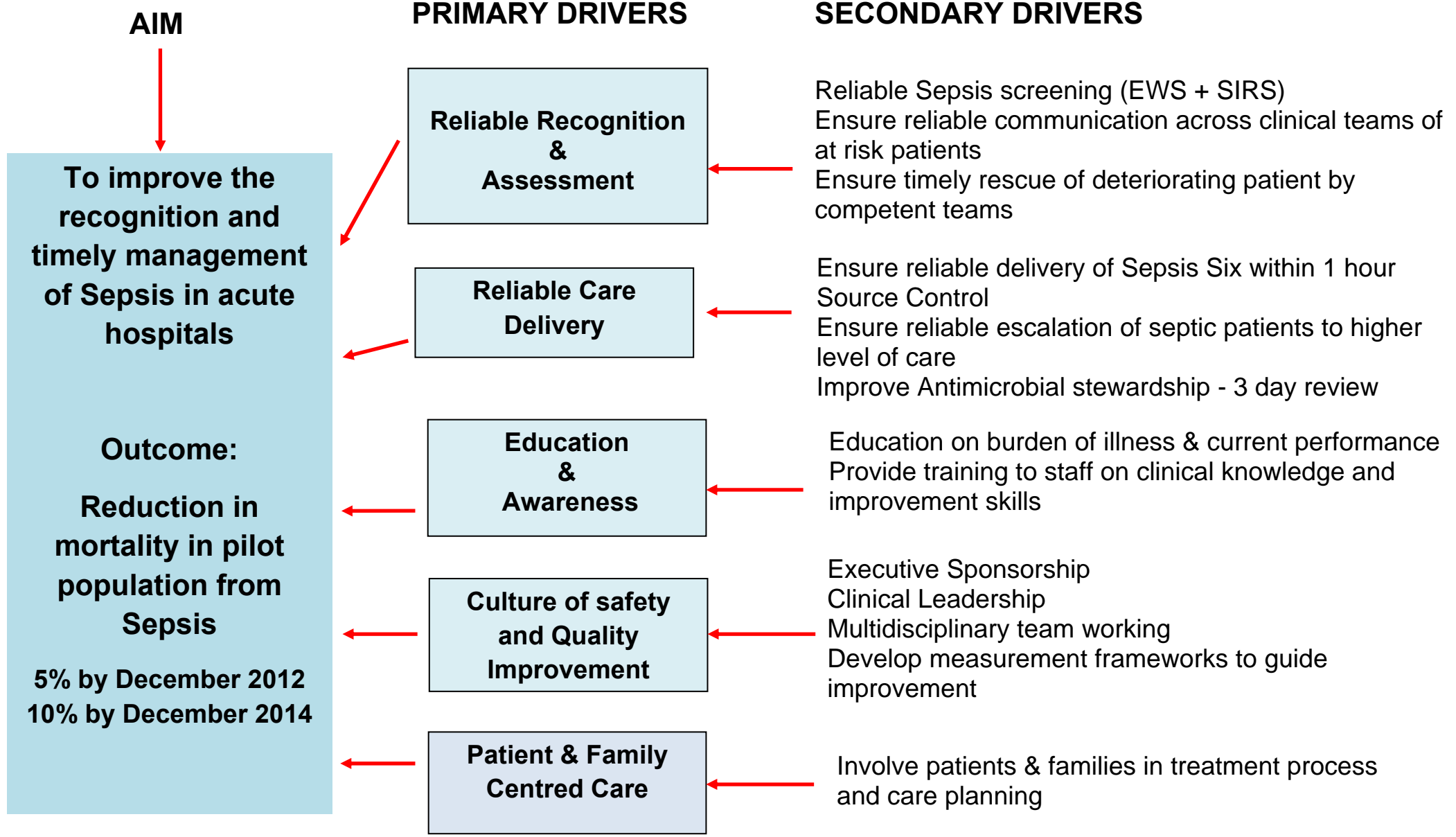

2012

Joint Collaborative Driver Diagram and Change Package Sepsis

The Scottish Patient Safety Programme & The Scottish Antimicrobial Prescribing Group

JOINT COLLABORATIVE - SEPSIS DRIVER DIAGRAM



SPSP/SAPG COLLABORATIVE**SEPSIS CHANGE PACKAGE**

Secondary Drivers with associated Change Concepts for testing and adaption to local patient specific context

SECONDARY DRIVER	CHANGE CONCEPTS & IDEAS FOR PDSA TESTING
Reliable Sepsis Screening	<p>Identify sepsis using EWS charts + SIRS</p> <p>Implement screening tool</p> <ul style="list-style-type: none"> • EWS trigger (local guidelines) with 2 of 4 <ul style="list-style-type: none"> ○ Temperature: <36°C or >38°C ○ Pulse: ≥ 90 beats per minute ○ White Blood Count <4 or >12 cells/mm³ ○ Respiratory Rate >20 breaths per minute
Ensure reliable communication across clinical teams of at risk patients	<p>Include at risk patients in safety brief</p> <p>Use SBAR to ensure reliable communication</p> <p>Multi-disciplinary rounds & Daily Goals</p> <p>Standardise communication and handovers between wards/departments</p> <p>Early senior review to identify patients who are not for escalation of treatment</p>
Ensure timely rescue of deteriorating patient by competent teams	<p>Reliable process of escalation to Consultant in charge of patient's care</p> <p>Link with ward safety brief to identify septic patients</p>

	<p>Reliable process for ‘tagging’ at risk patients for handover – nursing and medical</p> <p>Ideas to test include:</p> <ul style="list-style-type: none"> • Outreach teams to include ward sweeping • Wipe Boards to highlight patients at risk • IT solutions (e.g. Patienttrack)
<p>Ensure reliable delivery of Sepsis Six within 1 hour</p>	<p>Implement Sepsis Checklist</p> <ol style="list-style-type: none"> 1. Give high flow oxygen appropriately 2. Take blood cultures 3. Give IV antibiotic 4. IV fluid challenge (minimum 500 mls. within 1 hour), reassess and repeat as indicated 5. Measure serum lactate and full blood count 6. Assess urine output – consider catheterisation
<p>Source Control</p>	<p>Include on checklist</p> <ul style="list-style-type: none"> • Formally evaluate patient for a focus of infection amenable to source control measures • Implement source control measures as soon as possible following successful resuscitation
<p>Ensure reliable escalation of septic patients to higher level of care</p>	<p>Include on Checklist</p> <ul style="list-style-type: none"> • Review time • Consultant informed

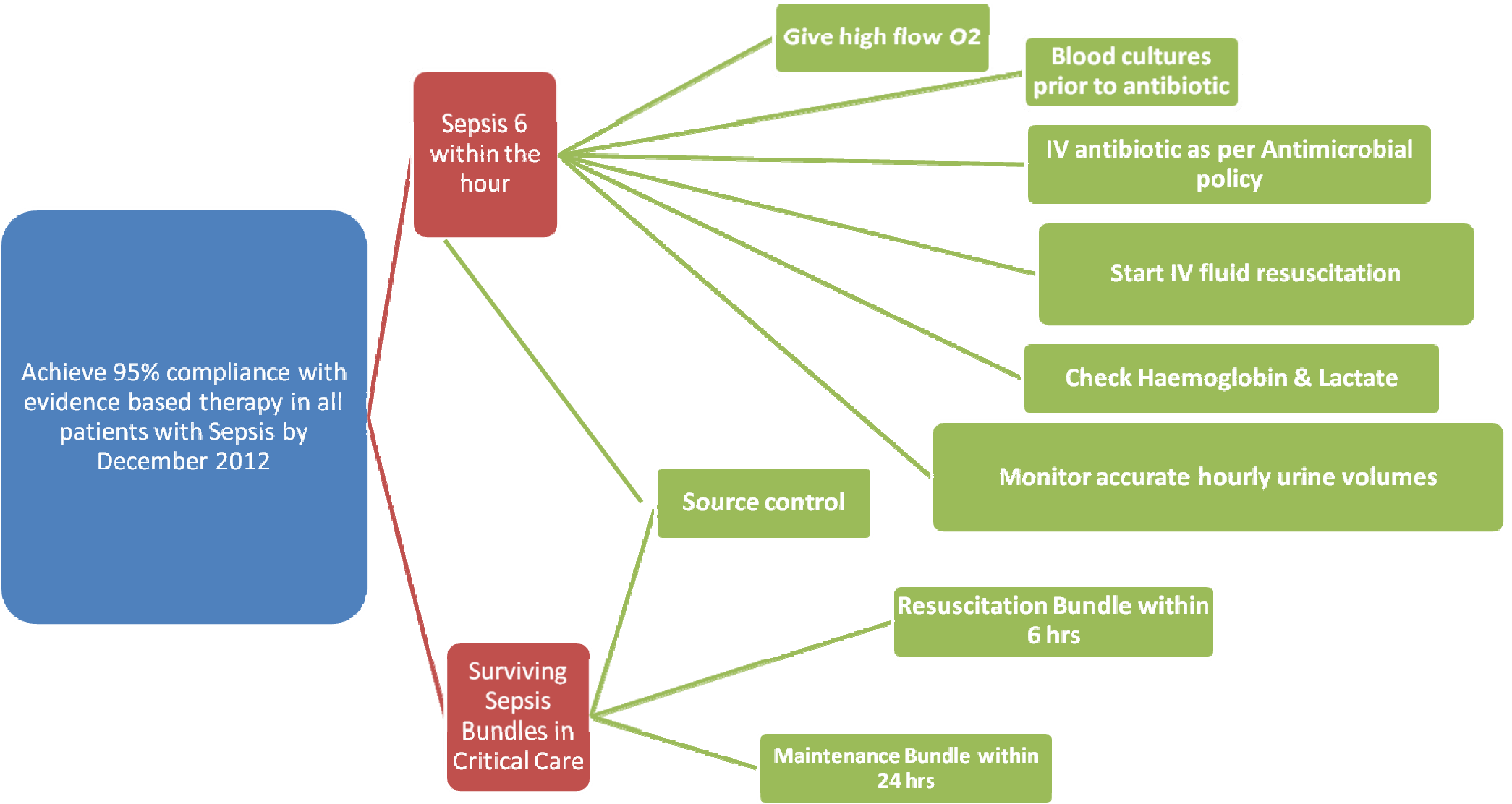
	<ul style="list-style-type: none"> • Critical Care review
Antimicrobial stewardship	<p>Early Consultant review of antibiotic therapy – before 3rd dose</p> <p>Antibiotic management component of sepsis six management bundle</p> <p>Antibiotic review – rationalise antibiotic management within 72 hours of starting therapy</p> <ul style="list-style-type: none"> • continuing need for antibiotic and review of indication for antibiotic • review of available microbiology and streamlining of treatment according to susceptibility • review need for IV therapy and potential for switch to oral therapy • Local Antibiotic policy
Education on burden of illness & current performance	<p>Local & National awareness campaign</p> <p>Community of Practice on Knowledge network</p> <p>Conference Calls/WebEx</p> <p>Medical staff induction, foundation training [DOTS] & Undergraduate curriculum</p>
Provide training to staff on clinical knowledge and improvement skills	<p>Include on staff induction and updates</p> <p>Medical staff induction, foundation training [DOTS] & Undergraduate curriculum</p>
Executive Sponsorship	<p>Include data and discussion of performance in Executive Walkrounds</p> <p>Provide visible Medical Executive Sponsorship</p>
Clinical leadership	<p>Identify local clinical leadership to drive improvement</p>

<p>Multi – disciplinary team working</p>	<p>Implement multi – disciplinary M & M including General Ward and Critical Care</p>
<p>Develop measurement framework to guide improvement</p>	<p>Identify local data collection roles within the multi – disciplinary team</p> <p>Build local teams understanding of measurement for improvement</p> <ul style="list-style-type: none"> • Sepsis six bundle compliance • Time to 1st antibiotic dose • Antibiotic compliance (local policy) and antibiotic review <p>Consider inclusion on local QI dashboards</p>
<p>Include patients & families in treatment process and care planning</p>	<p>Use patient stories to build awareness</p> <p>Ensure patients and families are informed of risks on discharge</p> <p>Promote open communication between clinical team and patient/family</p>

AIM

PRIMARY DRIVER

CHANGE CONCEPTS



Achieve 95% compliance with evidence based therapy in all patients with Sepsis by December 2012

Sepsis 6 within the hour

Give high flow O2

Blood cultures prior to antibiotic

IV antibiotic as per Antimicrobial policy

Start IV fluid resuscitation

Check Haemoglobin & Lactate

Monitor accurate hourly urine volumes

Source control

Surviving Sepsis Bundles in Critical Care

Resuscitation Bundle within 6 hrs

Maintenance Bundle within 24 hrs