

## **Re-CAP: Patient Hand-offs Between Stanford Pediatric Residents**

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Context	Intervention	Survey of Night-Team Residents	Results
<ul> <li>Resident duty hour regulations mandate transfers of patient care from one team to the next, thus hand-offs are key to patient safety</li> </ul>	<ul> <li>Intern and supervisor hand-offs were again separated into intern-to-intern and supervisor-to-supervisor sign-out</li> <li>The Re-CAP structure (see Figure 1) was introduced to</li> </ul>	Immediately after Re-CAP, answer YES or NO           1         We agreed on which patients were sickest after Re-CAP	<ul> <li>21 surveys were collected between November 2009 and March 2010</li> <li>11 night-team surveys and 10 day-team surveys</li> </ul>
<ul> <li>The Institute of Medicine recommends training in transitions of patient care</li> <li>Prior to autumn, 2009, Pediatric intern hand-off at Stanford occurred unsupervised, and supervisors did not routinely review data passed on</li> <li>With an understanding that interns frequently fail to signout accurately and yet overestimate the effectiveness of this communication<sup>a</sup>, a new model was proposed:</li> <li>A Whole Team Sign-Out was implemented to increase supervision : interns performed a systems-based sign-out while supervisors observed using a checklist</li> </ul>	<ul> <li>The supervisors taking over the night-shift were asked to use the Re-CAP structure to review the key pieces of the hand-off with the interns for accuracy</li> <li>Supervisors were asked to document the concordance of the separate sign-outs</li> <li>Surveys were used to assess the value of the hand-offs from the perspective of both night-time and day-time supervisors</li> </ul>	<ul> <li>We agreed on which patients were sickest after Re-CAP</li> <li>We agreed on anticipated course of each patient after Re-CAP</li> <li>We agreed on the plans of action for each patient during Re-CAP</li> <li>In the morning, prior to sign-out, answer YES or NO</li> <li>The sign-out from the day-team provided appropriate plans of action for each patient</li> <li>The sign-out from the day-team properly identified the children who were sickest overnight.</li> </ul>	<ul> <li>During the first weeks of Re-CAP, 3 resident surveys documented gaps in communication:</li> <li>One supervisor disagreed with the intern's understanding of anticipated course</li> <li>One key overnight detail was not signed-out to the day-team</li> <li>One planned procedure was not signed-out to the night-team, resulting in confusion for the team and the patient</li> <li>Over time, communication seemed to improve:</li> <li>18 surveys documented adequate hand-offs with clear communication</li> <li>Residents felt Re-CAP was more efficient than the Whole</li> </ul>
<ul> <li>The residents felt that this Whole Team approach took longer and in some cases, caused duty hour violations:</li> <li>"[Whole Team Sign-Out] takes much longer andpeople are frustrated by sitting around waiting to sign out at the end of</li> </ul>	Figure 1: Re-CAP Hand-off Structure	Survey of Day-Team Residents	Team Sign-Out, but still time-consuming: •"I think it was faster this way [separate sign-out with Re- CAP]I found that even if one of us had gaps in information, it was not a problem as long as we communicated well." Senior Resident
the day." Senior Resident <ul> <li>"I violated work hours for the first time and I am sure that is due to the extended time we had to stay [for Whole Team Sign-Out]." Intern</li> </ul>	<ul> <li>Re = Reconciliation/Repeat back</li> <li>Reconciliation = review each patient and the major problems relevant to overnight.</li> </ul>	After rounds, answer YES or NO 1 The actions of the night-team were appropriate.	<ul> <li>2 of the 11 night-team surveys noted minimal time to Re-CAP with interns on busy nights</li> <li>"Re-CAP is not realistic on [busy] nights1 tell my interns indications to call me (any doubt/concern)." Senior Resident</li> </ul>
Objectives	<ul> <li>Repeat back = review the to-do list and/or anticipated problems with the actions planned in response after all Re-CAP steps are completed; i.e. closed loop</li> </ul>	<ol> <li>The night-team did not miss any of the to-do's we signed out yesterday</li> <li>The night-team told us about all overnight events</li> </ol>	Conclusions and Implications  The Re-CAP model can provide structure to hand-offs
<ul> <li>To provide structure in resident hand-offs</li> <li>To assess the accuracy of resident hand-offs</li> <li>To increase resident awareness of the importance of hand-offs</li> </ul>	communication • C = Call me for		<ul> <li>A structured hand-off and longitudinal evaluation of its efficacy increase awareness of the importance of hand-offs</li> </ul>
<ul> <li>To enhance communication between care teams and among care teams</li> <li>To adhere to duty hours regulations</li> </ul>	<ul> <li>A review of what the supervisor would like to know about immediately</li> <li>A = Anticipated course</li> </ul>	References: 1. <sup>a</sup> Chang et al., "Interns Ovefrestimate the Effectiveness of Their Hand-Off Communication," <i>Pediatrics</i> 2010; 125:491-496. 2.Vidyarthi et al., "Managing discontinuity in academic medical centers: strategies	<ul> <li>Increased awareness may improve communication even if residents do not use Re-CAP due to a perceived lack of time</li> </ul>
	<ul> <li>A = Anticipated course</li> <li>A review of the anticipated events for the patient and actions planned in response</li> <li>P = Plans for the next day</li> </ul>	<ul> <li>E. Vogstan end offective resident sign-out," Society of Hospital Medicine, 2006; 1(4) 257-266.</li> <li>Acknowledgements:</li> <li>Thanks to the pediatric residents at Lucile Packard Children's Hospital</li> </ul>	<ul> <li>The Re-CAP model allows for separate intern and supervisor sign-out by offering a structure for review of information</li> <li>This model can improve duty hour adherence</li> </ul>

A review of key details such as planned procedures,

tests, or discharges

 Training medical students and new interns to use a structured format can increase accuracy of information conveyed