Stay Safe Rangers Initiative at Balgowlah Heights Public School: A model “kiss-and-drop” program

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Introduction

Background
Stay Safe Rangers is a school-based initiative developed in 2005 by Kathryn Henderson, a parent at Balgowlah Heights Public School (BHPS). This is a government-operated primary school in Northern Sydney. Planning for the project was undertaken during 2006, including a review by the New South Wales Department of Education and Training (DET) and development of a risk assessment plan. A trial scheme commenced at BHPS in the first term of 2007.

The objectives of the initiative are:

• To improve “kiss and drop” zone safety for children in Primary Schools, particularly at home time
• To modify and improve driver behaviour in the vicinity of the school
• To streamline traffic flow and improve local amenity

• Integrated with the current Primary School Leadership Curriculum, to allow senior Primary School Students to observe and make recommendations on their findings, relating to road safety for themselves and their younger peers
• To provide a forum at which these School Leaders can discuss issues and broadcast their findings and recommendations in the School Newsletter and through other appropriate channels.
• To prepare years 5 and 6 students for further road safety education such as the young drivers programs offered in High School

This article is based on a review, conducted in May 2007, after some nine weeks of operation of the trial scheme. The review was commissioned and funded by NRMA Motoring & Services.
Methodology
Pre-trial and in-trial observations of the Kiss and Drop zone in operation were conducted by Mr Paine. Ms Henderson facilitated the initial training of Stay Safe Rangers. Mr Paine discussed the operation of the scheme with participants and other observers, such as Council Rangers, Police and Department of Education managers.

International research (primarily in the USA) was reviewed to establish best practice. The operation of other Kiss and Drop schemes in New South Wales was also reviewed.

Kiss and Drop Zones
“Kiss and Drop” zones are parking areas near the school gates that have a maximum two minute parking. The intention is that drivers do not wait in these zones and that they stay in the vehicle so that throughput is streamlined and traffic queues are minimised. In reality it only takes a few inconsiderate drivers to overstay in these zones and the system breaks down leading to frustration and traffic delays. There are a variety of alternative names for Kiss and Drop zones including “Kiss and Ride” zones and “Drop-off and Pick-up” areas. Also, the term “parent” is used for simplicity and includes carers.

A Kiss and Drop zone is considered to be a passive intervention, where individuals are not required to undertake any action to be protected. Passive intervention strategies have been shown to be more effective than active measures, which require continued effort from individuals (1). Passive interventions such as a Kiss and Drop zone are particularly suitable in situations involving children.

Wigmore and Baas (2) noted that Kiss and Drop zones are found to be effective where there has been a comprehensive treatment of the school frontage, including access to internal car parks, indented bus bays and passenger drop-off zones. This finding supports the conclusion drawn in STAYSAFE 53 (3) that the traffic management of the areas outside schools should be holistically addressed as ‘precincts’ (or where there are adjacent schools, as ‘cluster precincts’).

More recently, researchers at the Center for Transportation Research and Education, University of Iowa (4, 5, 6) have reviewed safety on school grounds and public streets adjacent to elementary and middle schools in Iowa, and have produced a comprehensive guide to assessing the road safety issues and a toolbox for potential measures to reduce risk and improve safety during school travel. Again, this work complements STAYSAFE 53 (3) approach.

The traffic environment around schools is one of the most complex road transport environments normally encountered by the majority of motorists, and is easily the most complex traffic environment normally encountered by children. For periods of 30 minutes or more during the morning traffic peak, and for a very intense 10-15 minutes in the mid-afternoon, the immediate frontages of schools experience traffic volumes and a diversity of road use that is only seen in busy commercial and shopping centres or associated with mass movements of people to sports and other large community events.

It is perhaps the complexity and ephemeral nature of the traffic environment around schools that has tended to hide the significant risks posed by this environment to all road users, but particularly to school children seeking to travel from home to school and return.

There has been, as found by STAYSafe 53 (3), a systemic inability to deal effectively with the risk of harm associated with school travel, as opposed to the actual occurrence of road injury. Simply put, countermeasures that are based on death or serious injury to a child as a criterion for ranking of priority are not an acceptable benchmark for achieving better road safety around schools. A broader and more forward reaching approach to ensuring a safer environment around schools and communities must also include an assessment of risk without the necessary occurrence of road crashes. This reflects an increased risk-management approach within the school environment where, for example, schools are required to develop risk management plans for excursions. In the case of BHPS, such plans have been applied to the Stay Safe Rangers initiative, as described in section 2.7.

NSW practices
The current approach to very short stay “drop off” and “pick up” zones outside schools is to designate such zones as 2-minute parking areas, or passenger set down or pick up areas. Kiss and Drop zones have been well supported by local councils and schools and, in concept, by parents. However, as drivers, parents have tended to be less co-operative, particularly in the afternoon.

Kiss and Drop zones evidently work very well in the mornings. The arrival time of vehicles is staggered, children usually exit the vehicle quickly and move into the school grounds and the driver is then able to move off. There are rarely traffic queues and children do not usually wait at the footpath.

In the afternoon the situation at most schools is quite different. Nearly all children arrive at the Kiss and Drop zone at the same time, as do vehicles and the streets are blocked with traffic. The footpath area is a mix of children waiting for vehicles to arrive, parents who are waiting to pick up children and walk to home or car and children hanging around in social groups. There is general confusion and many distractions for the children – who should instead be looking for the arrival of their vehicle. Drivers, too, are distracted looking for children amongst the throng and may be impatient due to traffic delays.

“Kiss and Drop” zones are parking areas near the school gates that have a maximum two minute parking.
In the afternoon the proximity of distracted, excited children to moving vehicles is a particularly serious safety concern. To address these home-time problems a series of countermeasures needs to be considered that incorporates the following elements:

- Organised grouping of children waiting to be picked up
- Targeted release of children whose vehicle has arrived
- Improvements to the road environment – avoiding vehicle/pedestrian conflicts, improved signage, traffic flow measures.
- Changing driver attitudes – more patience, awareness of safety issues and consideration of others

In effect, the simplest way to do this would be to create similar conditions at home-time to those that exist during the morning arrival – staggered vehicle arrival and prompt, efficient movement of children from the school grounds to the vehicle.

The focus of the Stay Safe Ranger initiative has therefore been to improve safety at home-time.

Stay Safe Rangers Concept

There are two main components of the Stay Safe Rangers concept:

- The creation of a group of students, known as Stay Safe Rangers, who will observe the operation of the Kiss and Drop Zone in the afternoon, identify potential road safety situations and discuss possible solutions in SSR forums
- Revising the operation of the Kiss and Drop zone to improve safety and streamline traffic flow

The School Principal and a teacher, together with Ms Henderson, organised the Stay Safe Rangers.

A review of the Kiss and Drop Zone operation was undertaken by a small team that included school staff, Manly Council and DET representatives.

Risk analysis

The School Principal and staff from the DET developed a comprehensive risk management plan. Key measures identified during this process included:

- Seeking parent permission for SSR activities
- Specific training for SSRs and adult volunteers
- SSRs and adult volunteers to remain on school grounds (behind the fence) at all times
- Children waiting to be picked up are to wait in an orderly fashion behind the fence (on school grounds). When they see their vehicle they should raise their hand and the adult volunteer will tell them to move to their vehicle when it is safely parked.
- SSRs to wear highly visible clothing to indicate that observations are taking place
- SSRs are not to give instructions or directions to any person and are not to engage in conversations with drivers

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Student participation

A total of 55 SSRs were appointed and it was evident that the scheme was popular with Year 5 students. Rosters were drawn up with the aim of having at least three SSRs on duty each afternoon. An SSR Committee was elected by the Rangers. The Student Committee ran the forum and ensured that rangers turned up for duties.

Adult participation

Adult volunteers are crucial to the success of the scheme. The home-time collection of students can proceed without SSR present, as they are there to make observations only. The adult needs to arrive just before the home-time bell and control the students being picked for a maximum of 30 minutes. As with most school activities, recruitment of adult volunteers did prove to be difficult and only a few adults were available at the start of the trial. This improved as other adults saw the duties involved.
Uniforms

NRMA Motoring and Services provided bright yellow t-shirt for the SSRs to wear on duty. These were popular with the children. A prominent banner was also provided with the words “Stay Safe Ranger Patrol Are a”

Pre-pilot observations

Pre-trial observations revealed that the street often grid-locked at home-time. Several inconsiderate motorists arrived early at the Kiss and Drop zone and waited, usually well in excess of two minutes until their child arrived. Meanwhile other motorists waiting to pick-up children queued up and blocked the northbound traffic flow. The school bus was often stuck in this traffic and it was not unusual to see the queue extending around the corner, some 200m away. This meant that drivers became impatient and U-turns were frequent.

Children waiting to be picked up gathered on the footpath or, worse still, on the grass between the footpath and road. They mixed with students who were not necessarily waiting to be picked up. The proximity of distracted children to moving vehicles was highly undesirable. The students were often not looking for their lift and the parents often did not see the student amongst the crowd so there was general confusion.

Publicity

Once the procedures had been worked out a description of the scheme and a set of tips for parents and students was published in the school newsletter. Students were also told of the arrangements during assembly.

The local paper was interested in the initiative and ran several articles about the scheme. This helped to alert non-parent motorists and local residents of the new arrangements.

Commencement of pilot

On the first day there was an after-school activity that meant there was a reduced number of students waiting to be picked up and reduced traffic. This was not intended but proved useful for refining the procedures. On the second day about 50 students were picked within about 15 minutes of the home-time bell. Traffic was noticeably smoother than pre-trial and the queue built up to no more than about 5 vehicles.

A minor difficulty that was not anticipated is that young children do not always recognise their parent’s vehicle. They are also easily distracted and do not notice the vehicle arrive. Since most children are regular participants the adult volunteers got to know them and this difficulty was soon overcome. It was evident that the practice at some schools of placing a surname card on the vehicle was unnecessary.

Drivers picking up children appeared to be less stressed and less frustrated. Many delayed their arrival at the school by several minutes in the knowledge that their child would be waiting on the school grounds and traffic would have cleared.

Traffic queues were rare. Neighbours have expressed their appreciation of the major improvement in traffic flow at home-time. Council rangers and Police have also expressed support for the scheme.

SSR Forum and student solutions

SSR Forums are run by the students along the same lines as Student Representative Council meeting. SSRs are given the opportunity to describe their observations and recommend solutions to safety problems. These are prioritised and the SSRs present vote on action to be taken. SSRs are assigned responsibilities of these actions.

School newsletter articles describe the outcomes of the meetings.
Conclusions and Recommendations
The Stay Safe Ranger pilot at Balgowlah Heights Public School has met its major objectives and has successfully improved student safety and traffic conditions without being an undue burden on school resources or the community. It has also made the participating senior students more aware of road safety issues. Through their well-publicised observations they have also subtly but noticeably changed the behaviour of adult drivers.

References

Acknowledgements
The SSR concept was conceived and developed by Kathryn Henderson. BHPS Principal Craig Davis and Assistant Principal Denise Paine implemented the pilot in consultation with Ms Henderson, DET, NSW Police and the author. Anne Morphett and Mark Wolstenholme from NRMA Motoring & Services provided advice and resources. Michael Griffiths from Road Safety Solutions also provided advice for the project. The trial would not have been a success without the enthusiasm and diligence of the Stay Safe Rangers and the adult volunteers.