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**From:** William Griffin, MD  
**To:** Berman, Paul [DPYUS]  
**CC:** Kilburn, Randy [DPYUS]; Ekdahl, Andrew [DPYUS]  
**Sent:** 12/19/2008 9:50:30 PM  
**Subject:** RE: Year End

Paul, Randy, and Andrew,

Thank you, and I hope you and your families have a nice Christmas as well.

I have been meaning to contact you and Andrew in regards to the ASR cup and head. I have concerns about the design and have started to see failures consistent with my concerns.

There are three issues:

1) The inferior bone ingrowth surface, and the less than hemispheric shape make it less likely to obtain bone ingrowth.

2) The articular surface is too small. The 160 degree low profile shape, the increased dome thickness, and the recessed rim of the articular surface all combine to dramatically decrease the effective articular surface. this leads to edge loading.

The design makes a cup put in at 60 degrees behave like a full hemispheric cup at 75 degrees. As you know, vertical cups have a geometric increase in wear.

3) The design of the head creates sharp edges which scrape against soft tissue around the hip. Cilinically this can lead to painful snapping in the hip joint.

My thoughts would be that Depuy should at least de-emphasize the ASR cup while the clinical results are studied.

Personally, I think we will be dealing with a Durom situation in the near future and the one peice cup should be re-designed.

I do not use the ASR.

I have been studying the ASR along with other one-piece metal shells in the lab.

The ASR is not the only bad design out there but it certainly not as good as some of the others.

I appologize for dumping this on the back of your Christmas greeting.

I am interested in hearing your thoughts.

Bill Griffin

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**From:** Berman, Paul [DPYUS] [mailto:PBerman@its.jnj.com]  
**Sent:** Friday, December 19, 2008 4:07 PM  
**To:** gbrick@partners.org; schmalzried@earthlink.net; berry.daniel@mayo.edu; John-Callaghan@UIOWA.EDU; aengh@comcast.net; William Griffin, MD; hipdocae@aol.com; jkudrna5@aol.com; Steven.Macdonald@lhsc.on.ca; wpbarrett@comcast.net; ddennis@coloradojoint.com; james.mcauley@lhsc.on.ca; hmckellop@laoh.ucla.edu; Thomas Fehring, MD; haasbrian@mac.com; vailt@orthosurg.ucsf.edu  
**Cc:** Kilburn, Randy [DPYUS]  
**Subject:** Year End

Team –

Thank you all for your contributions to DePuy Orthopaedics' 2008 Hip Business success. Despite the challenge we all faced this year, we were able to stay focused on providing relevant solutions to patients and their surgeons.

The entire Hip Marketing Team is looking forward to an even more productive, post-DPA 2009.

Happy holidays.

Paul

Paul M. Berman

Director, Hip Marketing

DePuy, a Johnson & Johnson Company

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