

Statistics from the 4th Beach Handball World Championships 2010 in Antalya

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Introduction

Introduced at the 3rd Beach Handball World Championships 2008 in Cadiz the “statistic project” has been developed significantly for the Beach Handball World Championships 2010 in Antalya. With the help of the company ENFAKTOR the handwritten system has been upgraded to a full electronic scouting system. With modern touch screen laptops the actions of the game could be followed. The volunteers of the Antalya Organizing Committee scouted all 112 matches of the 4th Beach Handball World Championships 2010. The scouting reports of the matches were uploaded immediately after each match on the IHF-webpage. With the scouting reports the coaches of the teams received important information during the tournament. Furthermore one can get valid data and results for the development of the sport Beach Handball.



Selected Results

After the World Championships all the data were entered into the statistics programme SPSS, a huge number of data about all the technical elements of Beach Handball is now available. In the following we show just a little excerpt of some overall statistics. With future statistics also long-time studies of the game Beach Handball will be possible.

Successful Final Actions		
Total	Absolute	Relative
Inflight	578	14.29%
Spinshot	1'693	41.86%
Specialist	835	20.66%
Direct Goal	117	2.89%
6-M Throw	273	6.75%
Onepointer	548	13.55%
SUM	4'044	100.00%

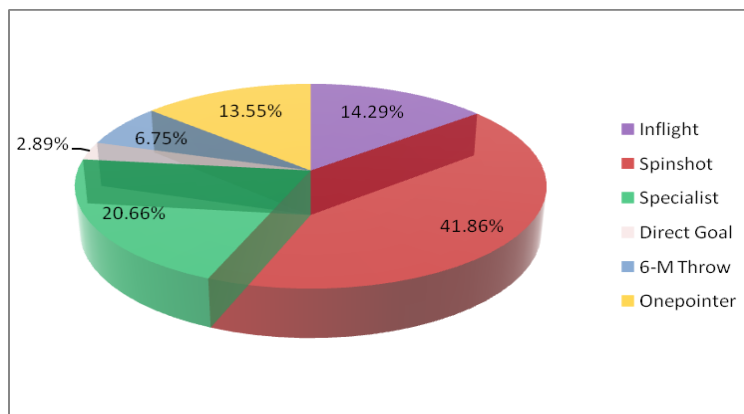


Fig. 1: Successful final actions at the 4th Beach Handball World Championships 2010 in Antalya

In 112 matches we had in total 4'044 successful final actions in attack, which means, actions that have been either finished with one or two points. 41% of all the actions were spinshots, 20% goals by the specialists and 14% inflights (see fig. 1). Compared to Cadiz 2008 there is a little increase in spinshots and a little decrease in inflights. In 2008 only 2'657 successful final actions were recorded, but with a different competition format (only 84 matches). If we compare the successful final actions per match we can see that we had in 2008 only 32 and in 2010 nearly 36 successful final actions per match.



Difference between the Genders

Successful Final Actions		
MEN	Absolute	Relative
Inflight	460	22.76%
Spinshot	810	40.08%
Specialist	397	19.64%
Direct Goal	54	2.67%
6-M Throw	141	6.98%
Onepointer	159	7.87%
SUM	2'021	100.00%

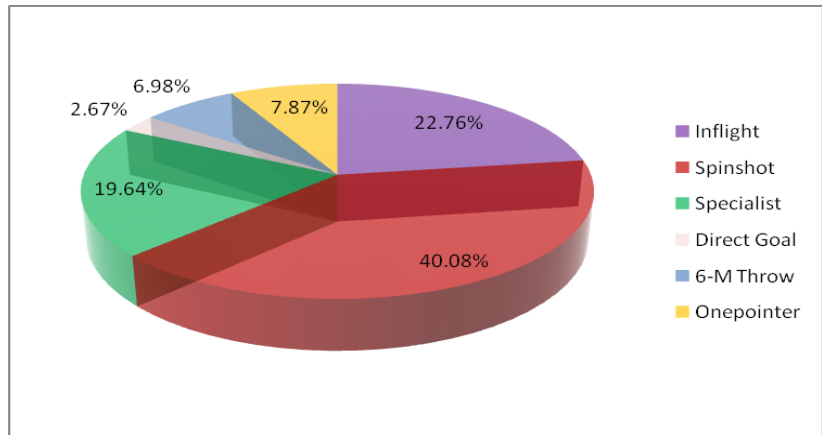


Fig. 2: Successful final actions at the 4th Beach Handball World Championships 2010 in Antalya from Men

If we compare men and women we can see that especially with the inflights there is a big difference between the genders. Women only succeeded with 5% inflights while men had over 22% (see fig. 2 and 3). The reason for this difference has to be analysed, but has probably to do with the physical differences. Compared to 2008 the inflights performed by women decreased **by nearly 50%**! At the same time the spinshots and onepointers increased significantly. One clearly can see that women do not successfully use the tactical element of inflights any more, which was some years ago the only spectacular element in Beach Handball (and is still considered as the most spectacular element in this sport by many coaches, players and spectators). One remarkable thing to mention is that women had in total **two (2)** more successful final actions (2'023) than the men (2'021).

Successful Final Actions		
WOMEN	Absolute	Relative
Inflight	118	5.83%
Spinshot	883	43.65%
Specialist	438	21.66%
Direct Goal	63	3.11%
6-M Throw	132	6.52%
Onepointer	389	19.23%
SUM	2'023	100.00%

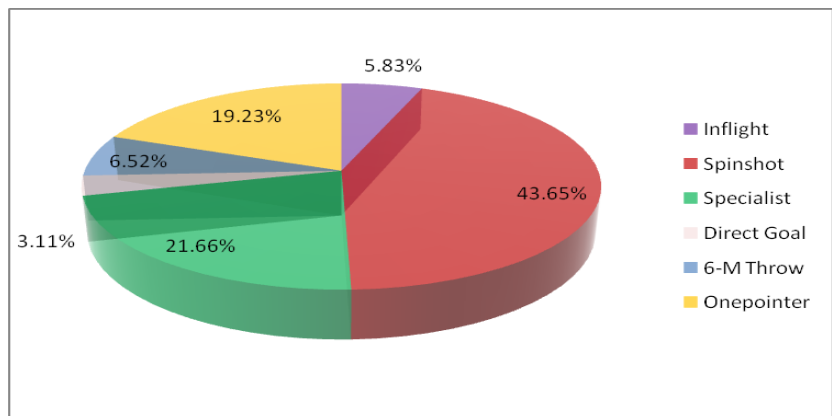


Fig. 3: Successful final actions at the 4th Beach Handball World Championships 2010 in Antalya from Women

Shoot Out

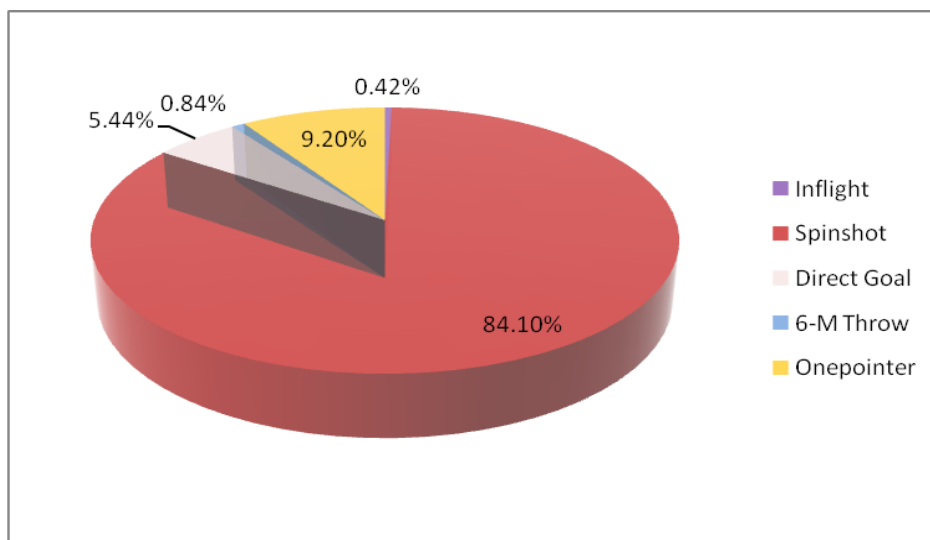


Fig. 4: Successful final actions at the Shoot Out at the 4th Beach Handball World Championships 2010 in Antalya

In the shoot out (see fig. 4) the situation has developed dramatically considering the idea of many different and creative shots. 84% of all 239 successful shots on goal in the shoot out were spinshots supplemented by 9% (tactical) one-pointers and only **1 inflight!**



Differences in Performance (Woman)

Successful Final Actions				
WOMEN	1 to 4		9 to12	
	Absolute	Relative	Absolute	Relative
Inflight	52	6.72%	21	3.72%
Spinshot	424	54.78%	138	24.42%
Specialist	162	20.93%	117	20.71%
Direct Goal	21	2.71%	9	1.59%
6-M Throw	48	6.20%	35	6.19%
Onepointer	67	8.66%	245	43.36%
SUM	774	100.00%	565	100.00%

Fig. 5: Comparison in successful final actions of the top teams (1-4) and the weaker teams (9-12) at the Women's Competition at the 4th Beach Handball World Championships 2010

Also very interesting is the differentiation between the top teams (best four / fig. 6) and the weaker teams (last four / fig. 7). While the top teams at the women's competition finalised over 54% of their shots with spinshots and at least over 6% with inflights, the weaker teams were only able to finish 24% spinshots and 3% inflights, but mainly used the tactical element of onepointers (43%) or specialist goals (20%). Compared to 2008 we can see that even the top teams at the women's competition have decreased their successful inflights but at least could avoid too much onepointers. The weaker teams however used now over 43% onepointers (32% in 2008).

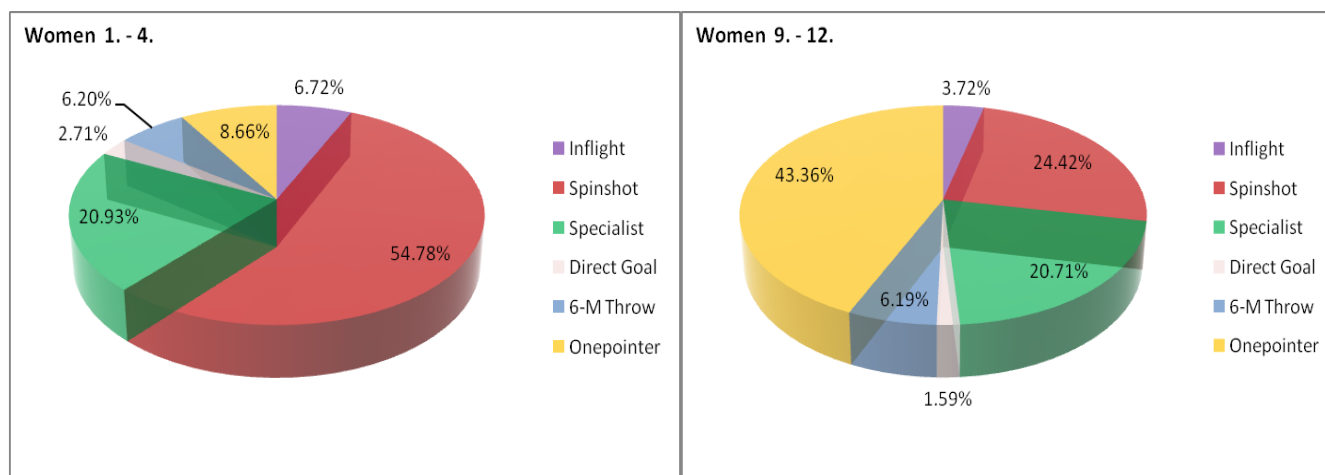


Fig. 6 and 7: Successful final actions of the top teams and of the weaker teams at the Women's Competition at the 4th Beach Handball World Championships 2010

Differences in Performance (Man)

Successful Final Actions				
MEN	1 to 4		9 to 12	
	Absolute	Relative	Absolute	Relative
Inflight	214	27.23%	81	16.40%
Spinshot	297	37.79%	172	34.82%
Specialist	145	18.45%	118	23.89%
Direct Goal	23	2.93%	14	2.83%
6-M Throw	61	7.76%	28	5.67%
Onepointer	46	5.85%	81	16.40%
SUM	786	100.00%	494	100.00%

Fig. 8: Comparison in successful final actions of the top teams (1-4) and the weaker teams (9-12) at the Men's Competition at the 4th Beach Handball World Championships 2010

If we compare the top teams (1-4) in the men's category with the weaker teams (9-12) we can see that the top teams had nearly 60% more successful final actions (786) than the weaker teams (494). Also the number of successful inflights at the top teams (214) is much higher as the respective number at the weaker teams (81). While the top teams only had to use 5% onepointers of their successful final actions the weaker teams were forced to use over 16%.

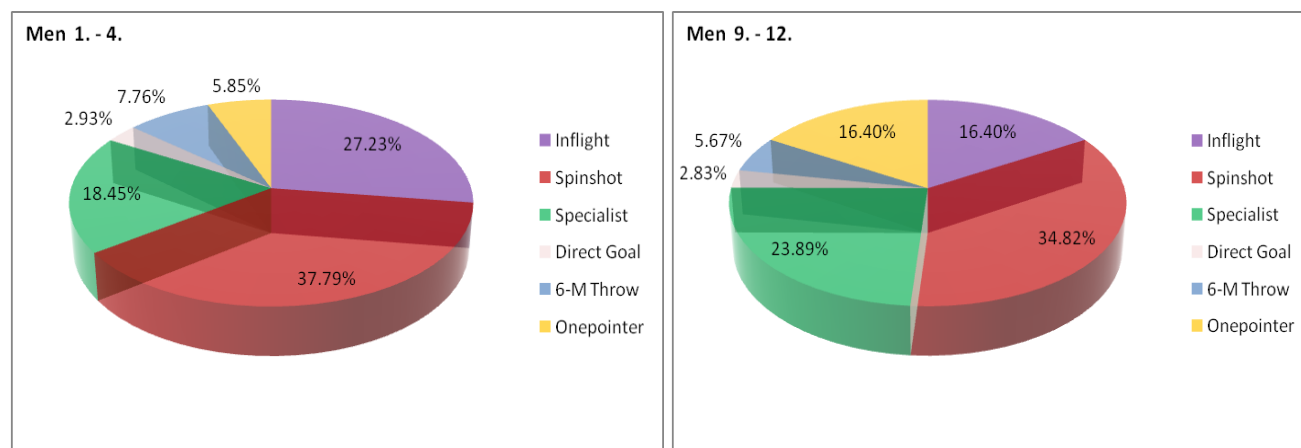


Fig. 9 and 10: Successful final actions of the top teams and of the weaker teams at the Men's Competition at the 4th Beach Handball World Championships 2010

Fair Play

In 2010 the numbers of suspensions and the team fair play statistics have been included into the “statistic project”. Since this statistic has been evaluated for the first time in 2010 we will only be able to compare the data with championships in the future.

In total we could count in 112 matches 392 suspensions, 25 red cards and 1 exclusion. The average is 3,5 suspensions per match.

Difference between the Genders

In the men’s competition there were 220 suspensions, 17 red cards and 1 exclusion. This makes an average of 3,92 suspensions per match. In the women’s competition there were 172 suspensions, 8 red cards and 0 exclusions. The average is 3,08 suspensions per match.

Clearly we can observe more punishments in the men’s competition.

Differences in Performance

If we study the punishments of the best four men teams (BRA, HUN, TUR & EGY) and the best four women teams (NOR, DEN, BRA & UKR) we can observe (with the exception of UKR) that the teams are in the middle of the TEAM FAIRPLAY RANKING.

In the men’s competition we observe the four best teams keep the same order that they have in the final ranking (BRA 4, HUN 6, TUR 7 & EGY 8). We can assure BRA was the best fairplay team of the four semi finalists.



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With two consecutive World Championships (2008 and 2010) and the World Games 2009 we have now a lot of data of the game of Beach Handball and a fantastic tool for scouting the game itself. We highly recommend to proceed with the “statistics project” and to initiate long-term studies. With this little excerpt we only scratched on the surface, much more detailed analysis are possible and have to follow.



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All pictures by Axel Heimken