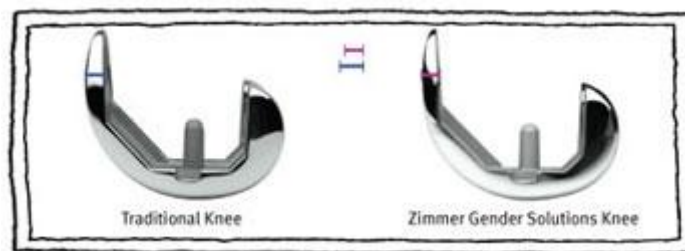


## The Zimmer® Gender Solutions™ Knee 3 Distinct Differences

The *Zimmer Gender Solutions* Knee is contoured to fit the unique shape and size of women's knees. It does this by matching a woman's shape and size with its 3 distinct differences: The *Zimmer Gender* Knee has a **thinner profile** than traditional knee replacements, it **allows for more natural movement** of the kneecap, and it has a **shape specially contoured for women**.

### Thinner Profile

The *Zimmer Gender* Knee has a **thinner profile** for women so the knee replacement feels natural, not bulky.



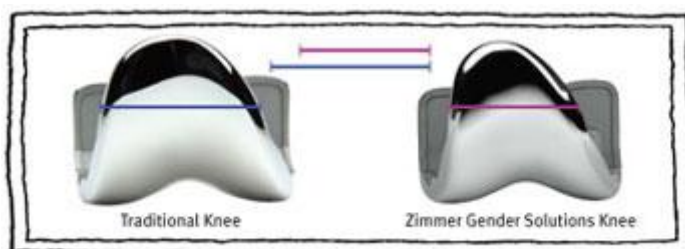
### More Natural Movement

The *Zimmer Gender* Knee has **more natural movement**, allowing the implant to move more like the natural knee.



### Contoured Shape

The *Zimmer Gender* Knee has a **contoured shape** proportioned to fit women's anatomies. This helps the implant from overhanging the bone and potentially pressing on or damaging surrounding ligaments and tendons.

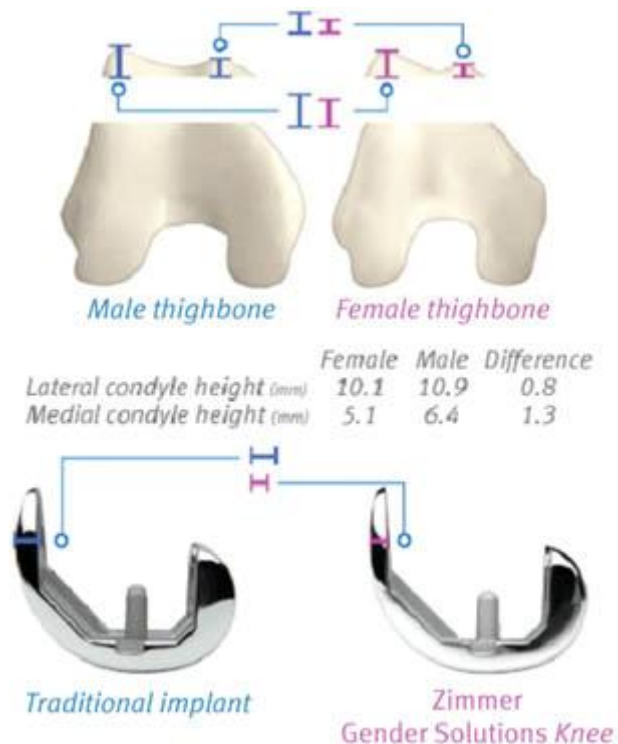


## 1. Thinner Profile

The bone in the front of a woman's knee is typically less prominent than in a man's. Traditional implants have a thickness in front that may end up making them feel "bulky," which may result in pain and a decrease in range of motion.<sup>1</sup> The Zimmer Gender Knee has a thinner profile to accommodate this anatomical difference between men and women.

### *Distinct Difference - Thinner Profile*

"Overstuffing," which occurs when an implant that is too large is used, may limit range of motion. Zimmer Gender Solutions Knees are designed to replicate the less-prominent female knee anatomy in the front of the knee. The implant retains the clinically successful NexGen patellar ("kneecap") movement.



## 2. More Natural Movement

The angle between the hip and the knee affects how the kneecap moves over the thighbone when the knee is in motion. Women have a distinct shape that frequently results in a different angle between the hip and the knee when compared to men. The Zimmer Gender Knee accounts for this difference, allowing for more natural movement.

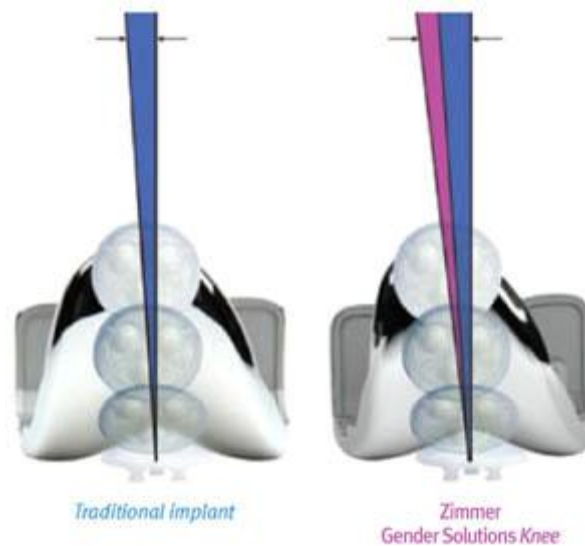
### *Distinct Difference - More Natural Movement*

The angle between the pelvis and the knee, called the quadriceps angle (Q angle), affects how the kneecap tracks over the end of the thighbone as the knee moves through a range of motion. Women tend to have a different angle than men due to their specific shape and contour. The traditional artificial knee tends to track at an angle that may lead to a woman's knee feeling

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<sup>1</sup> Scott NW. Pearls on avoidance and treatment of intraoperative and postoperative complications - exposure of the stiff knee. Presented at: American Association of Hip and Knee Surgeons, Knee Society Specialty Day; March 25, 2006.

"unnatural" as it moves. The Zimmer Gender Solutions Knee was designed to accommodate the tracking angle of women's knees and function more like a natural knee. Patellar maltracking remains a concern - particularly with females - following total knee arthroplasty.<sup>2</sup> Based on research, Zimmer designed the Gender Solutions Knee to replicate the distinct Q-angle of women.



### 3. Contoured Shape

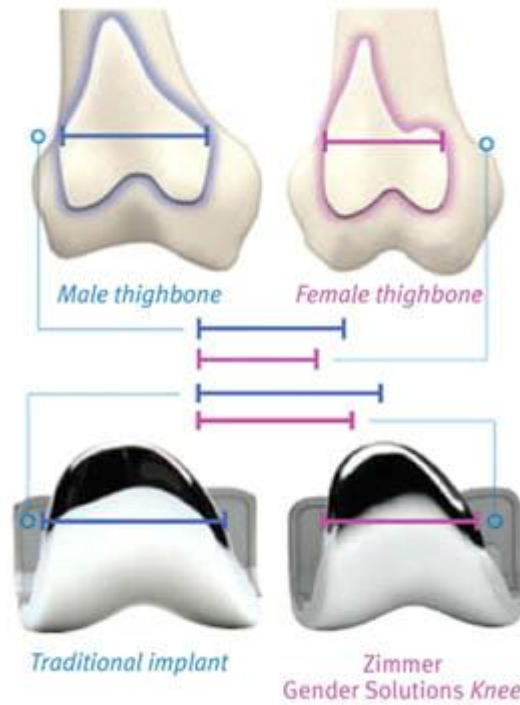
The Zimmer Gender Knee has a contoured shape to more closely match the narrower anatomy of a woman's knee. This contouring provides for a more precise fit and may prevent the implant from overhanging the bone and potentially pressing on or damaging surrounding ligaments or tendons.

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<sup>2</sup> Csintalan RP, Schulz MM, Woo J, McMahon PJ, Lee TQ, Gender Differences in Patellofemoral Joint Biomechanics, *Clin Orthop*. September, 2002; 402:260-269.

*Distinct Difference - Contoured Shape*

To accommodate the different shape of women's knees, which have a narrower anatomy, the Zimmer Gender Solutions Knee (right) is contoured to match that anatomical difference.



Additional information is available by talking to your surgeon or by visiting [www.genderknee.com](http://www.genderknee.com).