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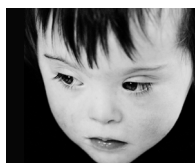
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ON THE COVER Emily Carmen at 2 years. Her father affectionately calls her La Bufadora (the geyser), because the water coming out of the geyser sounds like she does when she sleeps. Emily Carmen, who has Down syndrome, won't be able to drive a car. But beyond that, don't bet against her. Individuals with Down syndrome are joyous, tenacious, punctual, and hardworking people whose lives are full of daily celebrations. Chances are that she will graduate from high school, maybe even college. If she is typical, she will be a cheerleader, a musician, and an athlete. She will have boyfriends, write poetry, and even have her own Web site. In this month's issue of *Clinical Chemistry*, Chiu et al. describe the use of massively parallel sequencing-by-ligation for diagnosing trisomy 21 by testing DNA in maternal plasma, thus avoiding the risk of miscarriage associated with amniotic fluid sampling (see page 459). Emily Carmen's picture reminds us that there is a face behind every test and every diagnosis. Reproduced with permission from her father and photographer: Javier Delgado Esteban.

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