

**LEMBAR  
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW  
KARYA ILMIAH : JURNAL ILMIAH**

Judul Artikel Ilmiah : **Clean water supply vulnerability model for improving the quality of public health (environmental health perspective): A case in Spermonde islands, Makassar Indonesia**  
 Penulis Artikel Ilmiah : **Agus Bintara Birawida, Erniwati Ibrahim, Anwar Mallongi, Alif Alliuillah Al Rasyidi, Yahya Thamrin, Nurul Aqilah Gunawan**  
 Identitas Jurnal Ilmiah :  
 a. Nama Jurnal : **Gaceta Sanitaria**  
 b. Nomor/Volume/Hal : **Volume 35(S2):S601-S603**  
 c. Edisi (bulan/tahun) : **2021**  
 d. Penerbit : **Elsevier**  
 e. Jumlah halaman : **3 (Tiga)**

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Kelengkapan unsur dan kualitas penerbit (30%)	12					12
Total = (100%)	40					40
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Ruang Lingkup dan Kedalaman Pembahasan :	Masuk dalam bidang kesehatan lingkungan penyediaan air bersih di wilayah kepulauan. kedalaman cukup baik ditunjang dengan membuat model SEM untuk menentukan salah satu model terbaik terkait masalah akses air di kepulauan.
Kecukupan & Kemutakhiran Data & Metodologi:	Data hasil penelitian disajikan secara detail pada gambar dan uji statistik yang sesuai dengan tujuan. Metodologi yang digunakan pun telah sesuai dengan kebutuhan penelitian.
Kelengkapan Unsur & Kualitas Penerbit	Artikel diterbitkan di jurnal internasional terindeks Scopus Q3 dengan unsur-unsur terbitan yang lengkap, dan memenuhi formalitas jurnal internasional, ada ISSN, corresponding author dan dapat diakses dgn link: <a href="https://www.gacetasanitaria.org/">https://www.gacetasanitaria.org/</a>

Makassar, Januari 2022

Penilai 1



**Prof. Dr. Atjo Waiyu, S.KM., M.Kes.**

**NIP 197002161994121001**

Unit Kerja : FKM Unhas

Jabatan Fungsional : Pembina Tk 1 (Gol : IV/b)

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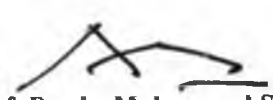
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Total = (100%)	40					40
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Ruang Lingkup dan Kedalaman Pembahasan:	Ruang lingkup masuk kesihatan lingkungan pulau-pulau kecil di spermonde island. pembahasan cukup mendalam menghubungkan variabel aksesibilitas, sosial dan perilaku terhadap kerentanan air di pulau kecil
Kecukupan & Kemutakhiran Data & Metodologi:	Data lengkap dan menggunakan referensi terbaru, metode sudah sesuai dengan tujuan dan hasil yg akan diperoleh
Kelengkapan Unsur & Kualitas Penerbit	Kualitas jurnal baik terindeks Scopus Q3 (tidak belong dari scopus) memenuhi syarat jurnal bereputasi berasal dari Negara Spanyol

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 Prof. Dr. dr. Muhammad Syafar, MS  
 NIP 195410211988121001  
 Unit Kerja : FKM Unhas  
 Jabatan Pangkat : Pembina Utama Madya (Gol. IV/d)

# Clean water supply vulnerability model for improving the quality of public health (environmental health perspective): A case in Spermonde islands, Makassar Indonesia

Link Jurnal: <https://www.gacetasanitaria.org/>

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Abstract  
Keywords  
Introduction  
Method  
Result

## Clean water supply vulnerability model for improving the quality of public health (environmental health perspective): A case in Spermonde islands, Makassar Indonesia

Agus Bintara Birawida<sup>a</sup>, Erniwati Ibrahim<sup>a</sup>, Anwar Mallongi<sup>a</sup>, Alif Alliullah Al Rasyid<sup>b</sup>, Yahya Thamrin<sup>c</sup>, Nutul Aqillah Gunawan<sup>d</sup>

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# Clean water supply vulnerability model for improving the quality of public health (environmental health perspective): A case in Spermonde islands, Makassar Indonesia



Agus Bintara Birawida<sup>a,\*</sup>, Erniwati Ibrahim<sup>a</sup>, Anwar Mallongi<sup>a</sup>, Alif Alliullah Al Rasyidi<sup>b</sup>,  
Yahya Thamrin<sup>c</sup>, Nurul Aqilah Gunawan<sup>d</sup>

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## ABSTRACT

**Objective:** This study aims to generate a clean water vulnerability model based on exogenous variables: accessibility, socio-economic, and population behavior to endogenous variables: occupancy density and water vulnerability to support the quality of public health in Spermonde island.

**Methods:** This research was conducted in three islands (Spermonde), namely Lae-Lae, Barang Caddi, and Luum-Luum. The research design is observational analytic with a cross-sectional approach. The 212 respondents were obtained using a simple random sampling method. A questionnaire was employed to interview respondents related to the level of environmental vulnerability. Data were analyzed using structural equation modeling (SEM).

**Results:** The study found some variables are not statistically significant associated with water vulnerability such as accessibility to occupancy density ( $P=0.095$ ), socio-economic to occupancy density ( $P=0.991$ ), accessibility to water vulnerability ( $P=0.383$ ), socio-economic against water vulnerability ( $P=0.417$ ), occupancy density for water vulnerability ( $P<0.01$ ). In contrast, behavior to occupancy density ( $P=0.002$ ), behavior towards water vulnerability ( $P=$  below  $0.01$ ) have a significant association.

**Conclusion:** Community behavior and occupancy density are the main factors associated with the vulnerability of clean water on the small spermonde islands. Adaptation behavior with water vulnerability such as water storage and saving needs to be improved.

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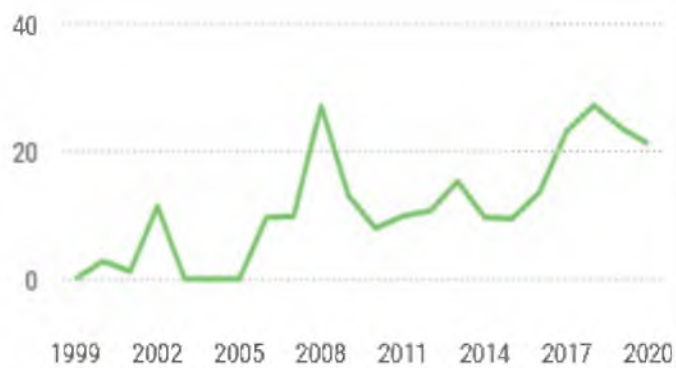
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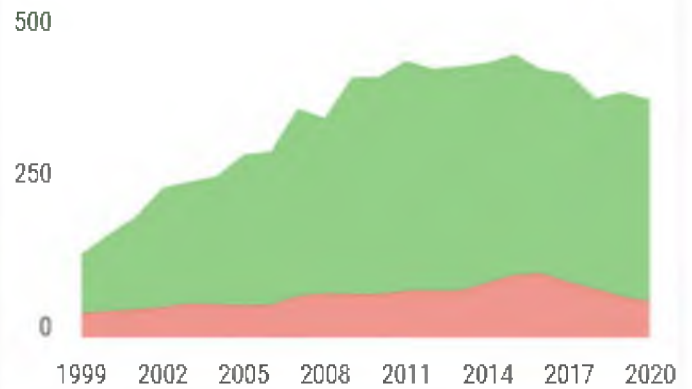
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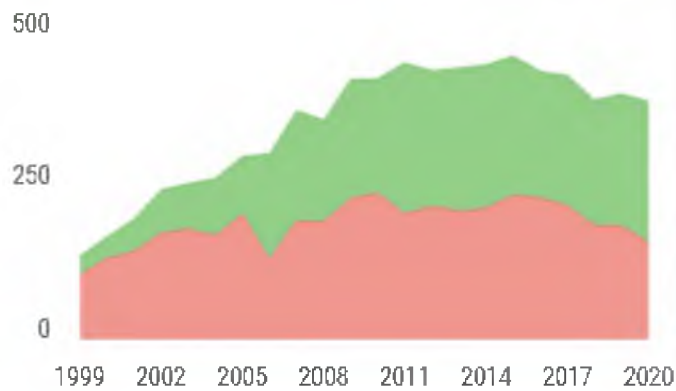
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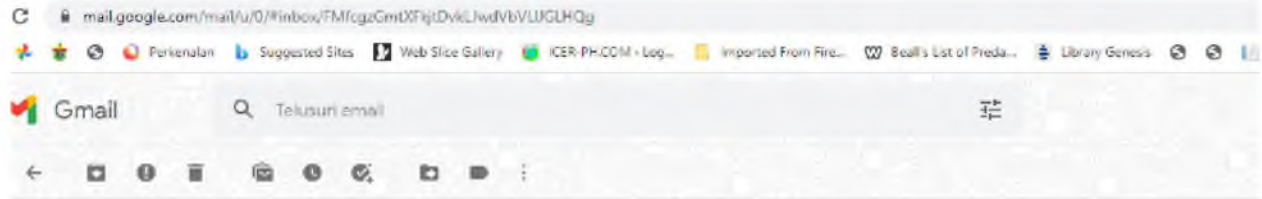
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Dear Agus Hintara Birawida

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